

Tracking Document:

Comparing Type 5-7 SLP to the new combined SLP

Header meanings:

- Heading/Clause – of the old document
- Header/Description – text within the old document for the clause
- New Description – new wording in the new document (if required)

Changes – changes to document

- Text – means reworded
- Text – means deleted
- Text - added

Heading/Clause number	Header/Description	New Heading/Description	Changes
1. General	This service level procedure details the requirements that the Metering Data Provider, must comply with for the provision of metering data services for metering installation types 5, 6 and 7.	1. General This service level procedure details the requirements that the Metering Data Provider must comply with for the provision of metering data services for all metering installation types in accordance with the Rules.	Reworded to cater for all metering types
1.1 Purpose	<p>1.1.1 This service level procedure is established under clause 7.14.1A of the Rules and details the obligations, technical requirements, measurement processes and performance requirements that are to be performed, administered and maintained by the Metering Data Provider.</p> <p>1.1.2 This service level procedure details the:</p> <ul style="list-style-type: none"> a) Obligations of the Metering Data Provider in the provision of metering data services; b) Obligations of the Metering Data Provider to establish and maintain a metering data services database; c) Processes that must be undertaken in the substitution and validation of metering data by the Metering Data Provider; 	2. Purpose	<p>1.1.1 now 2 a)</p> <p>1.1.2 now 2 b)</p> <p>c) Deleted as this is covered in Metrology Procedures. Document advises participants that they need to comply with Metrology A & B</p>

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	<p>d) Data collection, processing and transfer requirements for metering installation types 1, 2, 3 and 4;</p> <p>e) Obligations assigned to the Metering Data Provider within any procedures under the Rules; and</p> <p>f) Obligations assigned to the Metering Data Provider in support of the responsible person.</p>		
New 2 c)		<p>2. Purpose</p> <p>2 c) This service level procedure consolidates the following service level procedures related to Metering Data Provider activities.</p> <p>i. Service Level Procedure: Metering Data Provider Services Category D for Metering Installation Types 1, 2, 3 and 4;</p> <p>ii. Service Level Procedure: Metering Data Provider Services Category D for Metering Installation Types 5, 6 and 7; and</p> <p>iii. Service Level Procedure: Metering Data Provider Services Category Type 5C and 6C.</p>	Identifies origin of this document
1.2 Interpretation	<p>1.2.1 In this service level procedure words that are shown in italics have the meaning specified in the Rules or, if they are not specified in the Rules, they have the meaning specified in clause 1.5.</p> <p>1.2.2 A reference in this service level procedure to a provision in the Rules is taken to be a reference</p>	Glossary	Moved to the glossary and reworded

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	<p>to that provision as renumbered from time to time.</p> <p>1.2.3 In this service level procedure words in the singular include the plural and words in the plural include the singular.</p> <p>1.2.4 In this service level procedure diagrams are provided as an overview. If there are ambiguities between a diagram and the text, the text shall take precedence.</p>		
1.3 Regulatory Framework	<p>1.3 Regulatory Framework</p> <p>1.3.1 In accordance with clause 7.4.1A of the Rules, the provision of metering data services must only be carried out by a Metering Data Provider.</p> <p>1.3.2 In accordance with clause 7.4.2A (e) of the Rules, a Metering Data Provider must comply with the provisions of the Rules and procedures authorised under the Rules.</p> <p>1.3.3 In accordance with clause 7.4.2A (a) (2) of the Rules, Metering Data Providers providing metering data services in the National Electricity Market must be accredited by and registered with AEMO. The accreditation requirements are set out in the</p>	3. Legal and Regulatory Framework	same

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	<p>accreditation procedures and checklists for each category of registration which include requirements as set out in:</p> <ul style="list-style-type: none"> a) Chapter 7 of the Rules; and b) Authorised procedures under the Rules. 		
1.4 References	<p>1.4.1 In this service level procedure, a reference to:</p> <ul style="list-style-type: none"> a) 'Metrology procedure: Part B' is a reference to the "Metrology Procedure: Part B. Metering Data Validation, Substitution and Estimation Procedure for Metering Types 1-7". For the avoidance of any doubt, any reference within this procedure to: <ul style="list-style-type: none"> i. Validate or validation refers to the process as expressed within the metrology procedure: Part B; and ii. Substitute or substitution refers to the process as expressed within the metrology procedure: Part B. b) 'Metrology procedure: Part A' is a reference to the "Metrology Procedure: Part A. Any reference within this service level procedure is in accordance with the context of the provision and in relation to: <ul style="list-style-type: none"> i. The responsibility for 	4 References	<p>Removed spurious txt Remove as document does not refer to FRMP churn</p>

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	<p>metering data services; and</p> <p>ii. The requirement to be registered with AEMO for the provision of metering data services,</p> <p>c) 'MSATS Procedures' is a reference to any one or all of the following documents in accordance with the context of the provision:</p> <p>i. 'CATS Procedure' is a reference to the CATS Procedures Principles and Obligations;</p> <p>ii. 'Standing Data' is a reference to the static metering data held within MSATS as detailed in 'Standing Data for MSATS'; and</p> <p>iii. 'MDM Procedures' is a reference to MSATS Procedures: MDM Procedures.</p> <p>d) 'B2B Procedures' is a reference to any one or all of the following documents in accordance with the context of the provision:</p> <p>i. 'Customer and Site Details Notification Process';</p> <p>ii. 'Service Order Process';</p> <p>and</p> <p>iii. 'Meter Data Process'.</p> <p>e) 'NMI Procedure' is a reference to the latest version of the "National Metering Identifier Procedure".</p> <p>f) 'Data Delivery Calendar' is</p>		

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	<p>a reference to the applicable version of the 'AEMO Data Delivery Calendar'.</p> <p>g) 'Meter Churn Data Procedure' is a reference to the 'Meter Churn Data Management Procedure' that Metering Data Providers must comply with.</p> <p>h) 'FRMP Churn Procedures' is a reference to the 'Meter Churn Procedures' for financially responsible Market Participants'.</p> <p>i) 'MDF' is a reference to;</p> <p>i. The 'Meter Data File Format Specification' for provision of metering data to Local Retailers, Market Customers, Network Service Providers and other Metering Data Providers. This document is currently the "Meter Data File Format Specification NEM12 & NEM13".</p> <p>ii. An alternative version of the Meter Data File Format Specification which may be used for the provision of metering data to a Generator participant. This is currently the NEM01 format as specified in the "Meter Data File Format – NEM01 specification".</p> <p>j) 'MDM data file' is a reference to the aseXML metering</p>		

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	<p>data file to be used for sending metering data to AEMO's MSATS system. The latest version of the 'MDM File Format and Load Process' procedure details the process and file format to be complied with by Metering Data Providers.</p> <p>k) 'Market Management Systems Access Procedure' is a reference to the latest version of AEMO's Market Management Systems Access Procedure, Policy 02113.</p> <p>l) 'Service level procedure' is a reference to this document.</p>		
1.5 Definitions and Acronyms	<p>data stream A data stream means a stream of energy data or metering data associated with a metering point, as represented by a NMI. For example, a NMI will have multiple data streams where one or more meters or one or more channels or registers comprise a single meter. Each data stream is identified by a suffix, which is associated with the NMI to which it belongs.</p> <p>substitution, substitute, substituted A process undertaken by a Metering Data Provider or AEMO</p>	<p>GLOSSARY</p> <p>CATS Standing Data</p> <p>CATS Standing Data means those data items that are held in the following database tables:</p> <ul style="list-style-type: none"> • CATS_NMI_Data_Stream • CATS_NMI_Data • CATS_Meter_Register •CATS_NMI_Participants_Relationships • CATS_Register_Identifier <p>NMI Standing Data is a sub-set of</p>	<p>New Glossary and new definitions.</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>for the substitution of missing (null) or erroneous metering data or where the metering data has failed the validation process.</p> <p>validation, validate, validated A process undertaken by the Metering Data Provider to test the veracity and integrity of metering data prior to transfer to AEMO and other Registered Participants.</p> <p>estimation, estimate, estimated The processing of data undertaken by a Metering Data Provider for the estimation of metering data where the scheduled meter reading cycle does not support the delivery time frames of metering data to AEMO or other Registered Participants.</p>	<p>CATS Standing Data</p> <p>Collection, collect, collected</p> <p>A process undertaken by the Metering Data Provider to obtain metering data from a meter or metering installation.</p> <p>data stream</p> <p>data stream means a stream of energy data or metering data associated with a metering point, as represented by a NMI. For example, a NMI will have multiple data streams where one or more meters or one or more channels or registers comprise a single meter. Each data stream is identified by a suffix, which is associated with the NMI to which it belongs.</p> <p>estimation, estimate, estimated</p> <p>The processing of metering data, A process undertaken by a Metering Data Provider, for the forward estimation of metering data where the scheduled meter reading cycle does not support the delivery time frames of metering data to AEMO and other Registered Participants.</p> <p>substitution, substitute, substituted</p>	

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		<p>A process undertaken by a Metering Data Provider or AEMO for the substitution of missing (null) or erroneous metering data or where the metering data has failed the validation process.</p> <p>validation, validate, validated</p> <p>A process undertaken by the Metering Data Provider to test the veracity and integrity of metering data prior to transfer to AEMO and other Registered Participants.</p>	
1.6 Document Responsibility	<p>1.6.1 In accordance with clauses 7.1.3, 7.1.4 and 7.14.1A or the Rules, AEMO is responsible for:</p> <p>a) Preparing the service level procedure in accordance with Rules consultation procedures;</p> <p>b) Revising the service level procedure in accordance with Rules consultation procedure; and</p> <p>c) Publishing the service level procedure.</p> <p>1.6.2 The service level procedure must be available for public access on the AEMO website.</p> <p>1.6.3 Where AEMO considers a proposed amendment to the service level procedure is of a minor or administrative nature,</p>	1 Introduction	<p>1.6.1 now 1 b) Reworded</p> <p>Deleted as publishing under the rules means to provide access to the document.</p> <p>1.6.3 became 1c)</p>

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	AEMO is not required to undertake consultation in accordance with the Rules consultation procedures but must comply with the requirements of clause 7.1.4 (e) of the Rules.		
2.1 Metering Data Provider Obligations	<p>2.1.1 Where the Metering Data Provider is responsible for the provision of metering data services, the Metering Data Provider must:</p> <ul style="list-style-type: none"> a) Provide compliant metering data services; b) Establish and administer a metering data services database; c) Establish and maintain a metering register in their metering data service database; d) Maintain the security and confidentiality of any metering passwords; e) Ensure that metering data and NMI Standing Data is kept confidential and secure in accordance with Rule obligations; f) Undertake the remote acquisition of metering data through the processes that the Metering Data Provider has been accredited and engaged for; g) Collect metering data; and h) Undertake validation and substitution of metering data in 	<p>5 Obligations</p> <ul style="list-style-type: none"> 5.1 Metering data services 5.3 Specific obligations for Metering Data Provider - Category D 6 Service requirements for Metering Data Providers – Category D 6.1 System requirements 	<p>5.1 Metering data services</p> <p>New c) a), (with extra wording), d), e)(with extra wording), f)(with extra wording) retained</p> <p>Old c) Moved to 5.3.1 i).</p> <p>g) moved to 6.1.1a)</p> <p>h) moved to 5.3.1a) and reworded</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	accordance with the metrology procedure: Part B.		
	2.1.2 The Metering Data Provider must comply with the provisions of the Rules and procedures authorised under the Rules.	3 Legal and Regulatory Framework	2.1.2 covered in 3 b)
	2.1.3 The Metering Data Provider must ensure that any and all deliveries or transfers of metering data, relevant NMI Standing Data or metering register data for a metering installation from the Metering Data Provider's metering data services database, is only provided to persons entitled to have access to the data in accordance with clause 7.7(a) of the Rules.	5.1 Metering data services	2.1.3 covered in f)
2.2 Metering Data Provider Services	2.2.1 The Metering Data Provider must comply with this service level procedure.		2.2.1 deleted as spurious information
	2.2.2 The Metering Data Provider is required to provide metering data services which relate to the collection, processing and transfer of metering data and the management of relevant NMI Standing Data for all connection	5 Obligations 5.3 Specific obligations for Metering Data Provider - Category D	2.2.2 reworded as 5.3.1 c

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>points for which they have responsibility for in MSATS. The Metering Data Provider must continue to perform the services until otherwise advised by:</p> <p>a) The financially responsible Market Participant, the responsible person or AEMO through the MSATS Procedures; or</p> <p>b) AEMO, as part of an action undertaken within the 'Service Provider Compliance and Deregistration Procedure'.</p>		
	<p>2.2.3 In complying with clause 2.2.2 of this service level procedure, the Metering Data Provider must be compliant with the additional obligations within the 'Meter Churn Data Procedure' and the 'FRMP Churn Procedures' which are associated with customer transfers, participant role and metrology changes.</p>		<p>2.2.3 deleted as 5.1.2 advises what documents the MDP must comply with.</p>
	<p>2.2.4 The Metering Data Provider is responsible for all metering data services from the point of collection (remote acquisition) of metering data from the physical metering installation to the point of</p>		<p>2.2.4 deleted as 5.1.2 advises what documents the MDP must comply with.</p>

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	<p>metering data and relevant NMI Standing Data delivery interfaces to MSATS, the B2B e-Hub, Registered Participants and other service providers, as detailed in this service level procedure.</p>		
	<p>2.2.5 The Metering Data Provider is required to:</p> <p>a) Actively assist in the prompt registration of connection point data streams in accordance with the MSATS Procedures;</p> <p>b) Ensure registered details of the connection point are fully recorded in the Metering Data Provider's metering data services database. These details must be managed in an accessible and auditable manner;</p> <p>c) Ensure metering details are correct, particularly parameters that affect the translation of metering data, relevant NMI Standing data or metering register data from each metering installation into the Metering Data Provider's metering data services database;</p> <p>d) Facilitate the timely commissioning of the metering</p>	<p>5 Obligations</p> <p>5.1 Metering data services</p> <p>5.2 Use of sub-contractors</p> <p>5.3 Specific obligations for Metering Data Provider - Category D</p>	<p>2.2.5 a) to e) now 5.3.1 d), e), f), g)</p> <p>2.2.5 f) now 5.2.1h), g) now 5.2.1i), h) deleted upon review at MSWG Nov, i now 5.1.1 b), c) & d), j) deleted upon review at MSWG Nov, k) now 5.1.1 j)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>installation and the confirmation of metering installation details;</p> <p>e) Ensure that there is no continued metering data being registered for the connection point before deactivating the data stream(s) in MSATS or discontinuing the remote acquisition of the metering installation;</p> <p>f) Be accredited by AEMO to provide metering data services;</p> <p>g) Comply with all directions from AEMO to fulfil any obligation under this service level procedure;</p> <p>h) Comply with any statutes, regulations, bylaws, codes, Rules, procedures under the Rules and governmental policies relating to the provision of metering data services;</p> <p>i) Provide and maintain equipment and facilities sufficient to enable the Metering Data Provider to properly carry out the metering data services;</p> <p>j) Maintain the auditability, integrity and veracity of the Metering Data Provider's metering data services database and metering register for all metering installations for which they are the</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>nominated Metering Data Provider in MSATS; and</p> <p>k) Make all reasonable endeavours to co-operate in good faith with:</p> <p>i. AEMO;</p> <p>ii. All Registered Participants; and</p> <p>iii. Other accredited Metering Data Providers and Metering Providers within the National Electricity Market.</p>		
	<p>2.2.6 Where the metering installation includes the measurement of reactive energy, the Metering Data Provider is required to store this metering data along with the metering installations active metering data in the Metering Data Provider's metering data services database. The Metering Data Provider is required to include the provisioning of all reactive metering data to Registered Participants who have right of access to that metering data.</p>	<p>5 Obligations</p> <p>5.3 Specific obligations for Metering Data Provider - Category D</p>	<p>2.2.6 now 5.3.3</p>
<p>3. PROCEDURAL OBLIGATIONS</p>	<p>3.1 NMI Procedure</p> <p>3.1.1 The Metering Data Provider must maintain compliance with the NMI Procedure and in particular:</p>	<p>5.1 Metering data services</p> <p>5.1.2</p>	<p>Condensed and all explanatory txt removed</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>a) That correct allocation and control of all data stream suffixes are maintained within the Metering Data Provider's metering data services database; and,</p> <p>b) Verify that the NMI is registered in MSATS.</p>		
	<p>3.2 MSATS Procedures</p> <p>3.2.1 The Metering Data Provider is responsible for the provision of metering data services for all connection points for which they are the nominated Metering Data Provider in MSATS.</p> <p>3.2.2 The Metering Data Provider must remain compliant with all applicable MSATS Procedures.</p> <p>3.2.3 The Metering Data Provider must meet the specified obligations with respect to customer establishment and customer transfers within the timeframes defined in the MSATS Procedures.</p> <p>3.2.4 The Metering Data Provider must maintain and operate an interface with AEMO's MSATS system for the delivery of metering data and relevant NMI Standing Data to AEMO's metering database.</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>3.3 B2B Procedures</p> <p>3.3.1 The Metering Data Provider must remain compliant with all applicable B2B Procedures.</p> <p>3.3.2 The Metering Data Provider must maintain and operate an interface with the B2B e-Hub for the purposes of managing relevant B2B communications and for the delivery of metering data and relevant NMI Standing Data to relevant Registered Participants, other Metering Data Providers and AEMO.</p>		
	<p>3.4 Metering Data File Format</p> <p>a) 3.4.1 The Metering Data Provider must deliver metering data to all relevant Registered Participants in a format that is compliant with the requirements of the MDFF specification.</p> <p>3.4.2 The Metering Data Provider must deliver metering data to AEMO compliant with the process and format as specified in the 'MDM File Format and Load Process' procedure.</p> <p>3.4.3 The Metering Data Provider must deliver metering data to all relevant Registered Participants and AEMO interfaces</p>		

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	<p>as specified within this service level procedure.</p> <p>3.5 Meter Churn Data</p> <p>3.5.1 The Metering Data Provider must comply with the Meter Churn Data Procedure.</p> <p>3.5.2 The Metering Data Provider must be especially cognisant of connection point transfers that are retrospective and ensure that the integrity and veracity of metering data is not impaired with the change of service provision.</p> <p>3.5.3 The Metering Data Provider may be requested to assist the financially responsible Market Participant and or responsible person in the management of meter churn as detailed in the FRMP Churn Procedure for financially responsible Market Participants.</p> <p>3.6 Metrology Procedure: Part B</p> <p>3.6.1 The Metering Data Provider must comply with the metrology procedure: Part B in so much that it applies to metering installation types 1, 2, 3 and 4.</p> <p>3.6.2 The Metering Data Provider must subject all metering</p>		

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	<p>data to full and complete validation before any metering data is delivered to AEMO, Registered Participants and other Metering Data Providers.</p> <p>3.6.3 The Metering Data Provider must undertake substitutions in accordance with the metrology procedure: Part B.</p> <p>3.6.4 The Metering Data Provider must have a process in place that ensures that all connection points are commissioned into the Metering Data Provider’s metering data services database in accordance with the ‘Validation within the Registration Process’, as detailed within the metrology procedure: Part B.</p> <p>3.6.5 The Metering Data Provider must validate the metering data collected from each registered metering installation as soon as practicable after being advised by the financially responsible Market Participant, the responsible person or the Metering Provider that the installation is ready for service.</p> <p>3.6.6 The Metering Data Provider must have a process in</p>		

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	<p>place to maintain auditable records that:</p> <p>a) Show all metering data has been validated within the registration process and that sign off with the Metering Provider was undertaken;</p> <p>b) Show all metering data has been subjected to all of the required validation criteria inclusive of meter alarms and that all validation failures are authenticated; and</p> <p>c) Detail the reason code(s) and substitution method code(s) for any substitution of metering data.</p>		
	<p>3.7 Metrology Procedure: Part A</p> <p>3.7.1 The Metering Data Provider must comply with the metrology procedure: Part A in so much that it applies to the collection of metering data and the provision of metering data services for metering installation types 1, 2, 3 and 4.</p>		
	<p>3.8 Responsible Person and Metering Provider</p> <p>3.8.1 Notwithstanding that it is the responsible person who is</p>		<p>3.8 deleted. Duplication in the documents, was stating rules requirements and they provided no additional value</p>

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	<p>primarily accountable for the compliance and performance of the metering installation, it must be recognised that the Metering Data Provider, through this service level procedure, affords the responsible person a very significant degree of support.</p> <p>3.8.2 Disputes arising from failure to adequately deliver performance shall be addressed in good faith by the Metering Data Provider, the responsible person and AEMO, with the aim of jointly rectifying any problems. The review procedures put in place by AEMO will review the Metering Data Provider's success at meeting the performance criteria under this service level procedure.</p> <p>3.8.3 The Metering Data Provider must keep the responsible person and the Metering Provider informed of any outages or metering installation malfunctions.</p> <p>3.8.4 The Metering Data Provider must, on behalf of the responsible person, initiate a manual acquisition process with the assistance of the Metering</p>		

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	<p>Provider for the manual collection and processing of metering data from the metering installation where remote acquisition becomes unavailable.</p> <p>3.8.5 The Metering Data Provider must actively assist in the timely commissioning of the metering installation and the confirmation of the metering installation details with the Metering Provider.</p>		
4.TECHNICAL REQUIREMENTS	<p>4.1 Metering Register</p> <p>4.1.1 The Metering Data Provider must establish and maintain a metering register in their metering data services database in support of AEMO's obligation under clause 7.5.1 of the Rules and in accordance with this service level procedure.</p> <p>4.1.2 The Metering Data Provider must ensure that the metering register contains the applicable details listed in the clause S7.5 of the Rules with the exception of clause S7.5.2(b) of the Rules sub clauses 5, 6 and 7 and with exception of clause S7.5.2 (c) of the Rules for meter types 5 (including AMI), 6 and 7.</p> <p>4.1.3 The Metering Data</p>	5.3 Specific obligations for Metering Data Provider - Category D	<p>4.1.1 now 5.3.1 i)</p> <p>4.1.2 now 5.3.2 d)</p> <p>4.1.3 now 5.3.2 a)</p>

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	<p>Provider must coordinate the registration of information in the metering register in cooperation with the responsible person, the Metering Provider and, where necessary, any other Metering Data Provider or Metering Provider associated with the transfer of a connection point.</p>		
	<p>4.1.4 The Metering Data Provider must provide the metering register information on request to respective persons entitled to have access to the data in accordance with clause 7.7(a) of the Rules.</p>		<p>4.1.4 now 5.3.2 b)</p>
	<p>4.1.5 The Metering Data Provider must facilitate communication of the metering register information to other respective Metering Data Providers having the right of access as a result of an active transfer of a connection point.</p>		<p>4.1.5 now 5.3.2 c)</p>
<p>5.METERING DATA PROCESS</p>			
	<p>5.1 diagram</p>		<p>deleted</p>
	<p>5.1.1 The Metering Data Provider is required to maintain and operate a metering data process as indicated in Figure 1, ('Metering Data Process'). The process and system must facilitate:</p>	<p>6 Service requirements for Metering Data Providers – Category D 6.1 System requirements 7 Service requirements for Metering Data Providers - Category C</p>	<p>5.1.1 now 6.1.1 a) = a) b), d) & e) = b) c) & f) = g)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>a) The collection of metering data;</p> <p>b) The calculation of metering data;</p> <p>c) The storage (online) and archiving of collected and calculated metering data;</p> <p>d) The processing of the collected and calculated metering data;</p> <p>e) The validation, estimation and substitution collected and calculated metering data;</p> <p>f) The storage (online) and archiving of validated metering data;</p> <p>g) System monitoring and exception reporting;</p> <p>h) The delivery of metering data and metering register data to AEMO, Registered Participants and other service providers; and</p> <p>i) The assignment and version management of relevant roles for connection points as provided by the MSATS system.</p>	<p>7.1 System requirements</p>	<p>g) moved to 7.1.1g) h) = c) i) = d)</p>
	<p>5.1.2 The Metering Data Provider is required to maintain and operate a metering data services database that provides full audit trail and version control</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.1 System requirements</p>	<p>5.1.2 now 6.1.2</p> <p>a) = a) & b) b) = c) c) = d)</p>

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	<p>capabilities. This functionality must be applied to all:</p> <ul style="list-style-type: none"> a) Metering data and relevant NMI Standing Data, including backups and archived data; b) Assigned data quality flags; c) Estimation and substitution types; d) Significant meter alarms ; e) Metering register information; and f) Delivery of metering data to Registered Participants and AEMO. 		<p>d) = e) e) = f) f) = g)</p>
	<p>5.1.3 The Metering Data Provider is required to maintain and operate a system or process that supports the provision of various exception reports to enable the early detection of system and/or process errors. These exception reports should include but not be limited to:</p> <ul style="list-style-type: none"> a) Missed reads and missing intervals of metering data within the metering data services database (Quantity checks); b) Long term substitutions and estimations (Quality checks); c) Metering data errors and data overlaps; d) Validation, relevant NMI 	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.1 System requirements</p>	<p>5.1.3 now 6.1.3 j) removed incorporated under g) rest the same (slight rewording of d) and bracketed words removed as they did not add value)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	Standing Data or metering register errors; e) Failed batch processing, database errors and hardware failures; f) The trapping of file syntax errors, failed and rejected deliveries; g) Status management of manual collection interfaces; h) Status management of B2B e-Hub and MSATS interfaces; i) Status management of metering installation malfunctions; and j) Status management of the manual collection of metering data.		
	5.2 Collection Process 5.2.1 The Metering Data Provider must use reasonable endeavours to ensure actual metering data is collected for all connection points for which they have responsibility for metering data services in the MSATS.	6 Service requirements for Metering Data Providers – Category D 6.2 Collection process requirements 6 Service requirements for Metering Data Providers – Category D 6.4 Specific collection process requirements for metering installations type 5 and 6	5.2.1 now 6.2.1
	5.2.2 The Metering Data Provider must develop and maintain a reading schedule in accordance with the metrology procedure		5.2.2 now 6.4.1 a)
	5.2.3 The Metering Data Provider must use reasonable		5.2.3 now 6.4.1 c)

Heading/Clause number	Header/Description	New Heading/Description	Changes
	endeavours to ensure that metering data pertaining to Type 5 and Type 6 Metering Installations is read at a frequency which is at least once every three months.		
	5.2.4 The Metering Data Provider must maintain read routes with particular attention to any specific access requirements.		5.2.4 now 6.4.1 b)
	5.2.5 Subject to clause 5.2.11a) of this service level procedure, the Metering Data Provider must use reasonable endeavours to ensure that the metering data is read from Type 5 and Type 6 meters within two business days prior to or two business days subsequent to the scheduled reading date for that Metering Installation.		5.2.5 now 6.4.1 e)
	5.2.6 The Metering Data Provider must ensure that all metering data collected and any fault reason codes associated with a reading failure are transferred to the metering data services database within one business day of the data being collected or attempted to be collected from the metering installation.		5.2.6 now 6.4.1 f)
	5.2.7 The Metering Data Provider must ensure that special read requests are managed in		5.2.7 now 6.4.1 g)

Heading/Clause number	Header/Description	New Heading/Description	Changes
	accordance with the B2B Procedures.		
	5.2.8 The Metering Data Provider must ensure that all access issues are logged and communicated to the responsible person and financially responsible Market Participant.		5.2.8 now 6.4.1 h)
	5.2.9 The Metering Data Provider must ensure that scheduled reading lists and programmed reading equipment is provisioned, updated and maintained.		5.2.9 now 6.4.1 d)
	5.2.10 The Metering Data Provider must ensure that all meter reading equipment utilised for the reading of Type 5 and Type 6 meters is synchronised to Eastern Standard Time in accordance with the time accuracy requirements of the Rules.	5 Obligations 5.1 Metering data services	5.2.10 now 5.1.1 c)
	5.2.11 For Metering Data Providers undertaking the provision of metering data services in relation to an AMI rollout and clause 9.9B of the Rules: a) Metering data may additionally be remotely collected from relevant metering installations or substituted earlier than two business days prior to the	6 Service requirements for Metering Data Providers – Category D 6.5 Specific collection and delivery process requirements for AMI rollout	5.2.11 now 6.5.1 5.2.11 a) now 6.5.1 a) & b) 5.2.11b) now 6.5.1d) 5.2.11 c) now 6.5.1 c) 5.2.11 d) now 6.5.1 e reworded 5.2.11 e) & f) now 6.2.1 5.2.11 f) now 6.5.1 f)

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>next scheduled read date. Access to the metering data may not be provided until 5pm on the second business day after the scheduled reading date, despite metering data being available in Metering Data Provider systems due to more frequent data collection or substitution.</p> <p>b) A process which initiates a request for the manual collection of metering data where remote acquisition becomes unavailable.</p> <p>c) The Metering Data Provider must maintain and operate a system to undertake remote acquisition and data collection services. Systems and process must be in place that enables:</p> <p>i. The commissioning of each metering installation into the Metering Data Provider's metering database;</p> <p>ii. The remote communication with the metering installations at each site;</p> <p>iii. The remote acquisition of metering data from the metering installation inclusive of any assigned significant metering data alarms; and</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>iv. The storage of metering data from the metering installation in the Metering Data Provider's metering database.</p> <p>d) The Metering Data Provider's system must facilitate:</p> <p>i. The recovery of missing data by initiating a remote re-read of the meter;</p> <p>ii. The remote re-read of a metering installation where metering data previously acquired is found to be erroneous or has failed validation;</p> <p>iii. The provision of a reading event log that details successful read events for each metering installation, or alternatively an exception report of failed meter reads; and</p> <p>iv. A process for the prompt notification of any metering installation faults to the responsible person and the Metering Provider so that repairs can be affected in a timely manner.</p> <p>e) The Metering Data Provider must use reasonable endeavours to ensure that metering data is collected for all metering installations for which they are the nominated Metering</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>Data Provider in MSATS.</p> <p>f) The metering data collected under clause 5.2.11 relates to all metering data for all relevant channels, including significant meter alarms.</p> <p>g) The Metering Data Provider must undertake validation of all metering data in accordance with this service level procedure and the metrology procedure: Part B even though the significant meter alarms and meter register readings may be retrieved from the meter independently from the metering data.</p>		
	<p>5.3 Reading of Data</p> <p>5.3.1 The Metering Data Provider must maintain and operate a system to undertake data collection services. Systems and processes must be in place that enables:</p> <p>a) The commissioning of each metering installation into the Metering Data Provider’s metering data services database;</p> <p>b) The manual collection of metering data from the metering installation inclusive of any assigned significant metering data alarms; and</p>	<p>5 Obligations</p> <p>5.1 Metering data services</p> <p>5.3 Specific obligations for Metering Data Provider - Category D</p> <p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.1 System requirements</p>	<p>5.3.1a) now covered in 5.3.1 g) & 6.1.1e)</p> <p>5.3.1 b) now covered in 5.1.1 g) & 6.2.1</p> <p>5.3.1 c) now covered in 6.1.1 g), & 7.1.1 f)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	c) The storage of metering data from the metering installation in the Metering Data Provider's metering data services database.		
	<p>5.3.2 The Metering Data Provider's system must facilitate:</p> <p>a) A process for the prompt notification of any metering installation malfunction, to the responsible person and the Metering Provider so that repairs can be affected in a timely manner; and</p> <p>b) A process to support the responsible person and/or Metering Provider in the rectification of any metering installation malfunction and the management of metering data substitutions.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.2 Collection process requirements</p>	<p>5.3.2 a) now 6.2.2 a)</p> <p>5.3.2 b) now 6.2.2 c)</p>
	5.3.3		Nothing in this section looks like formatting error.
	<p>5.3.4 The Metering Data Provider is required to:</p> <p>a) Ensure that the meter time, where applicable, of all Type 5 and Type 6 meter installations is synchronised to Eastern Standard Time through the scheduled reading process within the</p>	<p>5 Obligations</p> <p>5.1 Metering data services</p> <p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.2 Collection process requirements</p>	<p>5.3.4 a) now 5.1.1 d)</p> <p>5.3.4 b) now 6.2.2 b)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>accuracy requirements of the Rules; and</p> <p>b) Ensure that a process for the recording and logging of faults and problems associated with the reading function of meters is maintained. The process should log any:</p> <ul style="list-style-type: none"> i. Access problems; ii. Meter security issues; iii. Meter faults; and iv. Read failures. 		
	<p>5.4 Data Processing</p> <p>5.4.1 The Metering Data Provider must maintain and operate a system to process collected and calculated metering data.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.1 System requirements</p>	<p>5.4.1 now 6.1.1 a)</p>
	<p>5.4.2 The Metering Data Provider must have a process that can confirm the responsibility for connection points by maintaining and updating a list that synchronises with MSATS.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.1 System requirements</p>	<p>5.4.2 now 6.1.1 d)</p>
	<p>5.4.3 The Metering Data Provider must have a process that can support the receipt and processing of Provide and Verify Meter Data Requests received from Registered Participants and service providers in accordance with B2B Procedures.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.6 Metering data processing requirements</p>	<p>5.4.3 now 6.6.1 b)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	5.4.4 The Metering Data Provider's system must assign the relevant metering data quality flags to all metering data in accordance with the metrology procedure: Part B	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing requirements	5.4.4 & 5.4.5 a), b), c) are 6.6.1 d)
	5.4.5 The Metering Data Provider must ensure that all metering data values stored in the Metering Data Provider's metering data services database, whether 'actual', 'estimated' or 'substituted', are stored with the correct: a) Quality Flag; b) Substitution or Estimation Type (where applicable); c) Substitution or Estimation Reason Code (if applicable); and d) Date/Time Stamp of when the metering data was entered into the Metering Data Provider's metering data services database.	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing requirements	5.4.4 & 5.4.5 a), b), c) are 6.6.1 d)
	5.4.6 The Metering Data Provider must undertake all validation of metering data whether 'estimated', 'substituted' or 'actual' in accordance with the metrology procedure: Part B.	6 Service requirements for Metering Data Providers – Category D 6.1 System requirements	5.4.6 now 6.1.1 b)
	5.4.7 The Metering Data Provider must have a process that checks the metering data for	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing	5.4.7 now 6.6.1 e)

Heading/Clause number	Header/Description	New Heading/Description	Changes
	missing data and overlaps in the metering data services database.	requirements	
	5.4.8 The Metering Data Provider must substitute for any missing metering data in accordance with the metrology procedure: Part B.	5 Obligations 5.3 Specific obligations for Metering Data Provider - Category D	5.4.8 & 5.4.9 now 5.3.1 a)
	5.4.9 The Metering Data Provider must estimate metering data in accordance with metrology procedure: Part B.	5 Obligations 5.3 Specific obligations for Metering Data Provider - Category D	5.4.8 & 5.4.9 now 5.3.1 a)
	5.4.10 Subject to clause 5.7.11 of this procedure, the Metering Data Provider must have a process that ensures the creation of estimated metering data up to or beyond the published next scheduled read date. This process can either: a) Create a single block of estimated metering data from the current reading event to a period beyond the newly published next scheduled read date; or b) Create individual blocks of estimated metering data on a daily basis providing that the adoption of such a process ensures specified data quantity delivery requirements are met.	6 Service requirements for Metering Data Providers – Category D 6.10 Specific Metering Data estimation requirements for metering installations type 5, 6 and 7	5.4.10 a) & b) now covered in 6.10.1 & 6.10.2
	5.4.11 Where the responsible person or the Metering Provider informs the Metering Data Provider	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing	5.4.11 now 6.6.2

Heading/Clause number	Header/Description	New Heading/Description	Changes
	of a situation that may cause metering data to be erroneous, the Metering Data Provider must identify and substitute any erroneous metering data.	requirements	
	5.4.12 Where any Registered Participant for the connection point disputes a metering data calculation, substitution or estimation, the Metering Data Provider should investigate, and if necessary re-substitute the metering data in accordance with the metrology procedure: Part B.	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing requirements	5.4.12 now 6.6.3
	5.4.13 The Metering Data Provider is required to notify AEMO and the Registered Participants for the connection point whenever any estimations or substitutions are carried out. This notification is to be achieved by delivery of the metering data within the MDM data file and MDF file respectively.	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing requirements	5.4.13 now 6.6.1 f)
	5.4.14 Where the meter assigns alarms to the data channel and/or the metering data concerned, the Metering Data Provider’s system must process the alarm along with the metering data as part of the required metering data validation process in accordance with the metrology procedure: Part B.	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing requirements	5.4.14 now 6.6.5

Heading/Clause number	Header/Description	New Heading/Description	Changes
	5.4.15 The Metering Data Provider's system must be capable of loading metering data provided in MDFF files relating to meter churn	6 Service requirements for Metering Data Providers – Category D 6.1 System requirements	5.4.15 now 6.1.1 f)
	5.4.16 The Metering Data Provider must load metering data in an alternative format provided by the Metering Provider where there is a communications or reading metering installation malfunction and the Metering Data Provider has a system capable of loading the alternate format	6 Service requirements for Metering Data Providers – Category D 6.6 Metering data processing requirements	5.4.16 now 6.6.6
	5.5 Type 7 Metering Data Processing 5.5.1 The Metering Data Provider must store inventory tables, load tables and on/off tables in the metering data services database.	6 Service requirements for Metering Data Providers – Category D 6.9 Specific Metering Data processing requirements for metering installation type 7	5.5.1 now 6.9.1
	5.5.2 The Metering Data Provider must ensure that: a) The inventory table is updated with any changed inventory details provided by the Local Network Service Provider or responsible person; b) The on/off table is correct and compliant with details specified in the metrology procedure Part B; and	6 Service requirements for Metering Data Providers – Category D 6.9 Specific Metering Data processing requirements for metering installation type 7	5.5.2 now 6.9.2

Heading/Clause number	Header/Description	New Heading/Description	Changes
	c) The load table is correct and is in agreement with details in the National Electricity Market Load Tables for Unmetered Connection Points, as published on AEMO's website.		
	5.5.3 The Metering Data Provider as part of the registration process must validate that load tables, inventory tables and on/off tables are complete and correct.	6 Service requirements for Metering Data Providers – Category D 6.9 Specific Metering Data processing requirements for metering installation type 7	5.5.3 now 6.9.3
	5.5.4 The Metering Data Provider must ensure the inventory table, load table and on/off table are the correctly versioned for metering data calculations	6 Service requirements for Metering Data Providers – Category D 6.9 Specific Metering Data processing requirements for metering installation type 7	5.5.4 now 6.9.4
	5.5.5 The Metering Data Provider must ensure that calculated metering data for a type 7 metering installation is produced within the time-frames as required by the metrology procedure and this service level procedure.	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.5.5 covered by section 6.11
	5.5.6 The Metering Data Provider must ensure that all calculated metering data is validated and processed into trading intervals following any validated changes to the inventory table, load table or on/off table.		5.5.6 now 6.9.5
	5.6 Metering Data Adjustment and Aggregation	6 Service requirements for Metering Data Providers – Category D	5.6.1 now 6.6.7 reworded

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>5.6.1 The Metering Data Provider must have a process that will aggregate interval metering data for a connection point into a net metering data stream prior to delivery to AEMO as follows:</p> <p>a) Where metering data is collected in submultiples of 30 minute intervals, the metering data must be aggregated into 30 minute intervals, and</p> <p>b) Where the metering data collected comprises separate export and import data streams, the respective export and import intervals must be aggregated into net metering data.</p> <p>Note: the Net metering data for an active Generator is generally negative. Net metering data for a data stream is as follows.</p> <p>Net metering data 30 mins interval = Export 30 mins interval – Import 30 mins interval i.e N130 mins interval = E130 mins interval – B130 mins interval.</p>	<p>6.6 Metering data processing requirements</p>	
	<p>5.6.2 The Metering Data Provider’s system must have the functionality to aggregate metering data to meet Meter Churn Data Procedure requirements.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.6 Metering data processing requirements</p>	<p>5.6.2 now 6.6.4</p>
	<p>5.7 Delivery Performance of</p>	<p>6 Service requirements for Metering</p>	<p>5.7.1 now 6.11.1</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>Metering Data</p> <p>5.7.1 The Metering Data Provider must ensure that only metering data that has passed validation is delivered to AEMO, Metering Data Providers and Registered Participants.</p>	<p>Data Providers – Category D</p> <p>6.11 Delivery performance requirements for metering data</p>	
	<p>5.7.2 Subject to clause 5.2.11 of this procedure, the Metering Data Provider must deliver to AEMO, Metering Data Providers and Registered Participants all actual metering data that has passed validation within two business days of the actual metering data being received into the metering data services database.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.11 Delivery performance requirements for metering data</p>	<p>5.7.2 now 6.11.2 a)</p>
	<p>5.7.3 Subject to clause 5.2.11 of this procedure, the Metering Data Provider must substitute, validate and deliver to AEMO, Metering Data Providers and Registered Participants the substituted metering data within two business days of the actual metering data being received into the metering data services database and failing validation.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.11 Delivery performance requirements for metering data</p>	<p>5.7.3 now 6.11.2 b)</p>
	<p>5.7.4 Subject to clause 5.2.11 of this procedure, the Metering Data Provider must substitute, validate and deliver to AEMO, Metering</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.11 Delivery performance requirements for metering data</p>	<p>5.7.4 now 6.11.2 c)</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	Data Providers and Registered Participants the substituted metering data within two business days of the receipt of any fault reason codes associated with a reading failure into the metering data services database.		
	5.7.5 The Metering Data Provider must validate and deliver to AEMO, Metering Data Providers and Registered Participants all substituted metering data within two business days of the metering data being substituted.	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.7.5 now 6.11.3
	5.7.6 The Metering Data Provider must validate and deliver to AEMO, Metering Data Providers and Registered Participants all estimated metering data within two business days of the metering data being estimated.	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.7.6 now 6.11.4
	5.7.7 The Metering Data Provider must deliver metering data that has passed validation to AEMO for the periods specified in the Data Delivery Calendar for all connection points that the Metering Data Provider has nominated responsibility for in MSATS for the specified weekly periods, to: a) A quantity level of at least	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.7.7 now 6.11.6

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>98% complete data for all settlement weeks; and</p> <p>b) A quality level of at least 98% 'actual' or 'final', for periods specified as four monthly and six monthly revision settlement weeks only; and</p> <p>c) By 5pm on the day specified in the Data Delivery Calendar for the relevant settlement week.</p>		
	<p>5.7.8 The Metering Data Provider must ensure that all failed validations are reviewed promptly such that:</p> <p>a) Where the initial review of the failed validation identifies that the actual metering data is valid, deliver the actual metering data to AEMO, Metering Data Providers and Registered Participants within two business days of the metering data being received into the metering data services database; and</p> <p>b) Where further information is required to validate the actual metering data, and the receipt of such information identifies that the actual metering data is valid, deliver the actual metering data to AEMO, Metering Data Providers</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.11 Delivery performance requirements for metering data</p>	<p>5.7.8 now 6.11.5</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	and Registered Participants within two business days of the metering data passing validation.		
	5.7.9 The Meter Data Provider must ensure that all metering data is delivered to AEMO, Metering Data Providers and registered participants for the full period of any retrospectively created data streams within two business days of that data stream becoming active in MSATS.	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.7.9 now 6.11.7.
	5.7.10 Summary Data Delivery Table. DELIVERY TO ENTITLED REGISTERED PARTICIPANT i.e. LNSP, TNSP, LR, FRMP DELIVERY TO AEMO Data Type NMI data stream (e.g. E1, B1. 71, 44) Deliver validated metering data including any estimations and substitutions. net NMI data stream (e.g. N1, 71, 44) Deliver validated metering data including any estimations and substitutions. Interval metering data must be as net aggregated to 30 minutes. File Format 'MDFF' Meter Data File Format (or Agreed	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.7.10 now 6.11.8 table change to incorporate 5,6 & 7 and to stylise using AEMO style guide.

Heading/Clause number	Header/Description	New Heading/Description	Changes
	Format). 'MDM' AEMO aseXML data file format. Delivery Point To the Registered Participants via B2B e-Hub inbox (or Agreed Method) To the Metering Data Provider's MSATS inbox		
	5.7.11 For Metering Data Providers undertaking the provision of metering data services in relation to AMI roll out and clause 9.9B of the Rules, metering data estimation is not required where metering data is delivered to AEMO, Metering Data Providers and Registered Participants on a daily basis for the previous day.	6 Service requirements for Metering Data Providers – Category D 6.11 Delivery performance requirements for metering data	5.7.11 now 6.11.9
	5.8 Delivery of Metering Data for Prudential Processing 5.8.1 AEMO must communicate to the Metering Data Provider the requirement for prudential metering data by 10am (Eastern Standard Time) the day before the data is required.	6 Service requirements for Metering Data Providers – Category D 6.12 Delivery of Metering Data for prudential processing	5.8 now 6.12 reworded a little. 6.1.1 now 6.13.1
	5.8.2 The Metering Data Provider must deliver prudential metering data for Type 5, Type 6 and Type 7 metering installations to AEMO and Registered Participants for periods nominated by AEMO as follows:	6 Service requirements for Metering Data Providers – Category D 6.12 Delivery of Metering Data for prudential processing	5.8 now 6.12 reworded a little.

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>a) The Metering Data Provider is required to deliver metering data to:</p> <p>i. AEMO by 8am (Eastern Standard Time) on the day(s) specified; and</p> <p>ii. Registered Participants by close of business on the same day.</p> <p>b) Deliver a minimum 80% complete data set to MSATS system for Prudential processing purposes, consisting of actual, estimated or substituted metering data.</p>		
	<p>5.8.3 The performance requirements set out in clause 5.8.2 relate to all connection points that the Metering Data Provider has responsibility for in MSATS.</p>		<p>5.8.3 deleted didn't add value</p>
<p>6. INTERFACES</p>	<p>6.1 Interface Requirements</p> <p>6.1.1 The Metering Data Provider must comply with AEMO's Market Management Systems Access Procedure.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.1.1 now 6.13.1</p>
	<p>6.1.2 The Metering Data Provider must establish and maintain business interfaces to:</p> <p>a) The MSATS system for the required management of connection point updates, notifications, objections, reports, relevant NMI Standing Data, data</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.1.2 now 6.13.2</p> <p>6.1.2 c) now 6.13.3</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>requests and delivery of metering data to the metering database;</p> <p>b) The B2B e-Hub for the required business interface with Registered Participants, other service providers and for the delivery of metering data to Registered Participants and other Metering Data Providers;</p> <p>c) The Metering Data Provider must demonstrate that any non public communications network which is to be used for the remote acquisition of metering data is first approved by AEMO and has controls and processes that support the following requirements:</p> <ul style="list-style-type: none"> i. Maintain data security, integrity and confidentiality; ii. Meets functional, performance and capacity requirements; and iii. Has contingency strategy for component failure. <p>d) Other email, facsimile, phone, internet and interfaces for the general management of information and alternative delivery of metering data to Registered Participants and the metering database.</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>6.1.3 Figure 2 outlines the key Metering Data Provider interfaces:</p> <p>Figure 2: Metering Data Provider Interfaces</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.1.3 now 6.13.12</p>
	<p>6.2 NEMNet</p> <p>6.2.1 The Metering Data Provider must maintain a NEMNet connection for the purposes of communication and file transfer with MSATS.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.2.1 now 6.13.4</p>
	<p>6.3 MSATS Interface</p> <p>6.3.1 The Metering Data Provider will be provided with an inbox and outbox directory on the MSATS file server, which the Metering Data Provider must use for the transfer of files to and from AEMO via NEMNet.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.3.1 now 6.13.5</p>
	<p>6.3.2 The Metering Data Provider is responsible for the placing of all files in the appropriate directory, and the collection and deletion of reports and file acknowledgments from the appropriate directory in accordance with the MSATS Procedures.</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.3.2 now 6.13.5</p>
	<p>6.3.3 The Metering Data Provider must interface to MSATS either via the interactive browser interface or via a batch interface,</p>	<p>6 Service requirements for Metering Data Providers – Category D</p> <p>6.13 Interface requirements</p>	<p>6.3.3 now 6.13.6</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>or both, using the market aseXML file format in accordance with the related documentation and schemas.</p>		
	<p>6.3.4 The Metering Data Provider must manage any batch file transfers to MSATS to ensure that:</p> <ul style="list-style-type: none"> a) Any data files transferred to MSATS have been received and acknowledged; b) Any file rejection notifications are processed; c) The naming structure as detailed in the aseXML file format schema is followed; and d) The deliveries of metering data files to MSATS are in file sizes no larger than one megabyte uncompressed 	<p>6 Service requirements for Metering Data Providers – Category D 6.13 Interface requirements</p>	<p>6.3.4 now 6.13.7</p>
	<p>6.4 B2B Interface 6.4.1 The Metering Data Provider must maintain an ongoing active line of communication with the B2B e-Hub for the management and response to B2B e-Hub Requests and Notifications.</p>	<p>6 Service requirements for Metering Data Providers – Category D 6.13 Interface requirements</p>	<p>6.4.1 now 6.13.8</p>
	<p>6.4.2 The Metering Data Provider must ensure that:</p> <ul style="list-style-type: none"> a) All transmitted messages comply with the requirements of the aseXML message format; and 	<p>6 Service requirements for Metering Data Providers – Category D 6.13 Interface requirements</p>	<p>6.4.2 now 6.13.9</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>b) All files transacted through the B2B e-Hub interface must comply with the requirements of the aseXML message size requirements and B2B Technical Delivery Specification.</p>		
	<p>6.5 Other Interfaces 6.5.1 Except where otherwise required in this service level procedure, all voice communications with AEMO, Registered Participants, Metering Providers and other Metering Data Providers are to be undertaken between 9:00am and 5:00pm on business days.</p>	<p>6 Service requirements for Metering Data Providers – Category D 6.13 Interface requirements</p>	<p>6.5.1 now 6.13.10</p>
	<p>6.5.2 The Metering Data Provider is required to liaise with the responsible person and the Metering Provider in the prompt resolution of any metering installation malfunctions.</p>		<p>6.5.2 deleted duplication.</p>
	<p>6.5.3 The Metering Data Provider is required to work with AEMO in the provision of metering data and standing data files to AEMO and Registered Participants via alternate means in emergency situations where normal processes cannot be utilised.</p>	<p>6 Service requirements for Metering Data Providers – Category D 6.13 Interface requirements</p>	<p>6.5.3 now 6.13.11</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
7. SYSTEM ARCHITECTURE & ADMINISTRATION	7.1 Data Archival and Recovery 7.1.1 The Metering Data Provider must ensure that their metering register information and metering data is accessible, online and archived in accordance with clause 7.11.3 of the Rules	8. System architecture & administration 8.1 Data archival and recovery 8.2 Data backup 8.3 Disaster recovery 5.1 Metering data services 8. System architecture & administration 8.4 System administration and data management	7.1.1 now 8.1.1 same
	7.1.2 The Metering Data Provider must have retrieval mechanisms that allow the archived data to be recovered, re-evaluated and dispatched in agreed timeframes to AEMO and Registered Participants	8. System architecture & administration 8.1 Data archival and recovery	7.1.2 now 8.1.2 reworded
	7.2 Data Backup 7.2.1 All metering data and metering register information must be backed-up on a daily basis and held in a secure environment.	8. System architecture & administration 8.2 Data backup	7.2.1 now 8.2.1
	7.3 Disaster Recovery 7.3.1 The Metering Data Provider must ensure that a Disaster Recovery Plan is established and in place to ensure that in the event of a system failure, the system can be returned to normal operational service within two business days.	8. System architecture & administration 8.3 Disaster recovery	7.3.1 now 8.3.1
	7.3.2 The Metering Data Provider must ensure that the Disaster Recovery Plan is:	8. System architecture & administration 8.3 Disaster recovery	7.3.2 now 8.3.2

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	<p>a) Maintained fully up to date with all documentation showing revisions; and</p> <p>b) Witnessed and dated at least annually by the Metering Data Provider as being current for the systems and processes in place.</p>		
	<p>7.3.3 Where the Metering Data Provider adopts a Disaster Recovery Plan that has a complete 'fail-over' system approach, the Disaster Recovery Plan must be:</p> <p>a) Subjected to a test annually that facilitates a full 'fail-over' to the recovery system.</p>	<p>8. System architecture & administration</p> <p>8.3 Disaster recovery</p>	<p>7.3.3 now 8.3.3 reworded.</p>
	<p>7.3.4 Where the Metering Data Provider adopts a Disaster Recovery Plan that has a segmented system approach, the Disaster Recovery Plan must also:</p> <p>a) Detail the selected business system segments and the interfaces and relationships the segment has to other business system segments;</p> <p>b) Be established for each individual segment of the business system;</p> <p>c) Be tested annually with evidence retained to show disaster recovery for each individual segment of the business system;</p>	<p>8. System architecture & administration</p> <p>8.3 Disaster recovery</p>	<p>7.3.4 now 8.3.4 reworded.</p>

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	<p>and</p> <p>d) Have, for each individual segment of the business system, a procedure that clearly details the process to establish a return to a fully operational system.</p>		
	<p>7.3.5 Expected evidence to support Disaster Recovery Plan testing should include, but not be limited to:</p> <p>a) A Test Plan of the fail-over;</p> <p>b) Results of the fail-over including timing;</p> <p>c) System logs indicating fail-over and recovery; and</p> <p>d) Logs or notations evidencing resumption of Metering Data Provider operations.</p>	<p>8. System architecture & administration</p> <p>8.3 Disaster recovery</p>	<p>7.3.5 now 8.3.5</p>
	<p>7.3.6 In the event a system failure does occur, the Metering Data Provider must ensure that:</p> <p>a) The Metering Data Provider's metering data services database is restored to operational service within the two business days; and</p> <p>b) That all processing and delivery backlogs of metering data to AEMO and Registered Participants is completed within the same two business days.</p>	<p>8. System architecture & administration</p> <p>8.3 Disaster recovery</p>	<p>7.3.6 a) now 8.3.6 a)</p> <p>7.3.6 b) now 8.3.6 b) reworded.</p>
	<p>7.3.7 The Metering Data</p>	<p>8. System architecture & administration</p>	<p>7.3.7 now 8.3.7</p>

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	<p>Provider must at its earliest opportunity notify AEMO of any failure where the Metering Data Provider has a requirement to implement its established Disaster Recovery Plan.</p>	<p>8.3 Disaster recovery</p>	
	<p>7.4 Time Synchronisation 7.4.1 The Metering Data Provider's metering data services database, including all distributed systems and personal computers used for data acquisition, must be synchronised to Eastern Standard Time within the accuracy requirements of clause 7.12 (e) of the Rules.</p>	<p>5 Obligations 5.1 Metering data services</p>	<p>7.4.1 now 5.1.1 d)</p>
	<p>7.4.2 The Metering Data Provider through their metering data collection process must ensure that all meters are synchronised to Eastern Standard Time within the accuracy requirements of clause 7.12 (f) of the Rules for the relevant metering installation type.</p>	<p>5 Obligations 5.1 Metering data services</p>	<p>7.4.2 now 5.1.1 f) reworded</p>
	<p>7.5 System Administration and Data Management 7.5.1 Tools required by each Metering Data Provider for the administration and data management of their metering data services database must</p>	<p>8 System architecture & administration 8.4 System administration and data management</p>	<p>7.5.1 now 8.4.1 reworded</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>include, but should not be limited to:</p> <ul style="list-style-type: none"> a) Operator Interface – for use by the database operator with the database processes, including facilities to: <ul style="list-style-type: none"> i. Control access to systems and data using unique identification and password for each user, regular password changes, etc; ii. Prevent an operator or user from deleting or over-writing data; iii. Administer the database system using day-to-day operations management; system back-up and recovery; security management; process monitoring and control; etc., but restricting access to the underlying database tables to a nominated System Administrator using a separate password; iv. View data in tabular and graphical form, where appropriate; v. Viewing logs and reports, including reports from the metering data collection system; vi. Monitor reporting processes, including B2B communications or e-mail requests by Registered Participants, the 		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>provision of reports, logs and delivery notifications and the transfer of metering data and relevant NMI Standing Data to each authorised recipient;</p> <p>vii. Processes to support manual metering data calculation, estimation and substitution processes; and</p> <p>viii. Exception monitoring facilities to support metering data validation requirements.</p> <p>b) Access Control – to assign/restrict Registered Participant access to metering data and relevant NMI Standing Data provided via reports, based on the relationships defined in the metering register and in accordance with clause 7.7 of the Rules.</p> <p>c) Task Control – for the metering data service database processes, including the ability to run processes out of sequence (e.g. to enable changes to metering data and relevant NMI Standing Data without initiating the metering data delivery process; or initiate a metering data delivery process for test purposes) and for the provision of back-up and recovery,</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>archiving and recovery, and disaster recovery functionality.</p> <p>d) System Availability – provide a service delivery that meets AEMO’s and Registered Participants’ metering data delivery requirements, with at least 95% availability (i.e. hardware and systems downtime do not exceed a maximum of 438 hours per annum (5%)).</p>		
	<p>7.5.2 The Metering Data Provider must maintain full audit trails of metering register information, metering data and relevant NMI Standing Data so that any data output produced by the system can be re-produced from source data at any time within seven years of the obtaining of that metering data, metering register information or relevant NMI Standing Data details.</p>	<p>8 System architecture & administration</p> <p>8.4 System administration and data management</p>	<p>7.5.2 & 7.5.3 now 8.4.2 reworded.</p>
	<p>7.5.3 The Metering Data Provider must ensure that version control and audit trails are maintained by the provision of a change-log to record any change that is not managed automatically within the metering data service database</p>	<p>8 System architecture & administration</p> <p>8.4 System administration and data management</p>	<p>7.5.2 & 7.5.3 now 8.4.2 reworded.</p>
<p>8. QUALITY CONTROL</p>	<p>8.1 Scheduled Metering Data</p>	<p>9 Quality control</p>	<p>8.1.1 now 9.1.1</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>Audits</p> <p>8.1.1 The Metering Data Provider must undertake all services in a manner that is auditable by AEMO, and must support scheduled reviews of their metering data service database, processes, procedures and systems.</p>	<p>9.1 Scheduled Metering Data audits</p>	
	<p>8.1.2 AEMO will undertake periodic review certification, to a negative assurance level of the Metering Data Provider's system, process and procedures to assess the Metering Data Provider's compliance to the Rules, Procedures under the Rules and this service level procedure.</p>	<p>9 Quality control</p> <p>9.1 Scheduled Metering Data audits</p>	<p>8.1.2 now 9.1.2</p>
	<p>8.1.3 All scheduled reviews will be through a centralised review process established by AEMO and will be undertaken at the Metering Data Provider's own costs.</p>	<p>9 Quality control</p> <p>9.1 Scheduled Metering Data audits</p>	<p>8.1.3 now 9.1.3</p>
	<p>8.1.4 Where a review is conducted under this service level procedure, the Metering Data Provider must, at its own cost, provide all reasonable assistance including making databases, equipment and premises available for inspection, making personnel available for questioning, and</p>	<p>9 Quality control</p> <p>9.1 Scheduled Metering Data audits</p>	<p>8.1.4 now 9.1.4</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	providing copies of any data or information as requested.		
	<p>8.1.5 Scheduled reviews of the Metering Data Provider's system will be as follows:</p> <p>a) The first audit to be nominally within six months after accreditation at a time that suitably coincides with AEMO's market audit report.</p> <p>b) Subsequent audits will be nominally six monthly and at a time that suitably coincides with AEMO's market audit report; or</p> <p>c) At AEMO's discretion, at twelve month intervals based on previous satisfactory audit reviews of the Metering Data Provider.</p>	<p>9 Quality control</p> <p>9.1 Scheduled Metering Data audits</p>	<p>8.1.5 now 9.1.5 reworded</p>
	<p>8.1.6 The Metering Data Provider is required to establish with AEMO the business days for audit reviews in advance. A minimum of 15 business days notice will be given to the Metering Data Provider for the provision of any specific data requests as part of the audit.</p>	<p>9 Quality control</p> <p>9.1 Scheduled Metering Data audits</p>	<p>8.1.6 now 9.1.6 reworded</p>
	<p>8.2 Other Audits</p> <p>8.2.1 Audits may be undertaken at any time by AEMO, in accordance with Rules requirements. Audits may be</p>	<p>9 Quality control</p> <p>9.2 Other audits</p>	<p>8.2.1 now 9.2.1 reworded</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>carried out by AEMO following a request from a Registered Participant.</p>		
	<p>8.2.2 Where an audit of a metering installation is conducted by AEMO under clause 7.6.3 (d) of the Rules, and metering data is required to be obtained from the Metering Data Provider in support of this audit, the Metering Data Provider is required to provide the metering data within two business days of AEMO's request.</p>	<p>9 Quality control 9.2 Other audits</p>	<p>8.2.2 now 9.2.2 reworded</p>
	<p>8.3 Reporting 8.3.1 AEMO will undertake to provide regular reports to the Metering Data Provider relating to quality and timeliness of deliverables as part of AEMO's performance monitoring and benchmarking processes. 8.3.2 The content of the Metering Data Provider reports will reflect performance monitoring across all Metering Data Providers with respect to the deliverables of this service level procedure. 8.3.3 The frequency of the Metering Data Providers reports provided by AEMO will be nominally monthly, unless otherwise advised.</p>		<p>Deleted as it added no value</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>8.4 Corrective Action</p> <p>8.4.1 The Metering Data Provider is required to take corrective action on any reported instances of non-compliance documented within either the monthly reporting process or through the scheduled Metering Data Provider audit process.</p>	<p>9 Quality control</p> <p>9.3 Corrective action</p>	<p>8.4.1 now 9.3.1 reworded</p>
	<p>8.4.2 Where the Metering Data Provider becomes aware that incorrect metering data has been delivered to AEMO and Registered Participants, the Metering Data Provider must provide corrected metering data to all affected parties within one business day as required by clause 7.11.3 (e) of the Rules.</p>	<p>9 Quality control</p> <p>9.3 Corrective action</p>	<p>8.4.2 now 9.3.2</p>
	<p>8.4.3 Subject to any concerns that AEMO may have relating to metering data, metering register or relevant NMI Standing Data details, AEMO may further request the Metering Data Provider to undertake metering data, metering register or relevant NMI Standing Data investigations and corrections where errors or omissions are found within AEMO's settlements process. These requests are to be actioned as a priority by the</p>	<p>9 Quality control</p> <p>9.3 Corrective action</p>	<p>8.4.3 now 9.3.3</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	Metering Data Provider.		
	8.4.4 Where AEMO in the preparation of settlements ready data detects metering data that fails AEMO validation processes, AEMO will notify the Metering Data Provider within one business day of detection in accordance with clause 7.9.4 of the Rules.		Deleted as this is just restating AEMO's obligations under the rules
	8.4.5 Where AEMO has notified the Metering Data Provider, the Metering Data Provider must use best endeavours to provide corrected metering data to AEMO within one business day or notify AEMO of the reason for the delay.		Deleted as this is just restating AEMO's obligations under the rules
	8.4.6 Where there is a reason for delay in delivering the correct metering data, the Metering Data Provider and AEMO must agree on the revised delivery time frame.	9 Quality control 9.3 Corrective action	8.4.6 now 9.3.4 reworded
	8.5 Non Compliance and De-registration 8.5.1 The 'Service Provider Compliance Assessment and Deregistration Procedure' (established under clause 7.4.3 (a) of the Rules) shall be used by AEMO in any assessment of a non-conformance or breach by a Metering Data Provider to remain compliant with the Rules, any	9 Quality control 9.4 Non-compliance and de-registration	8.5.1 now 9.4.1

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	<p>procedure authorised under the Rules or this service level procedure.</p>		
	<p>8.5.2 Subject to the assessed breach level as defined within the 'Service Provider Compliance Assessment and Deregistration Procedure', actions that may be taken by AEMO in the event that the Metering Data Provider has failed to take corrective action, includes:</p> <ul style="list-style-type: none"> a) Loss of accreditation of the Metering Data Provider; b) Deregistration from categories of accreditation; c) Suspension from operation in the National Electricity Market; d) Other applied limitation or level of restriction; or e) Any combination of the above. 	<p>9 Quality control 9.4 Non-compliance and de-registration</p>	<p>8.5.2 now 9.4.2</p>
	<p>8.6 Review of Accreditation 8.6.1 Circumstances where AEMO may require a Metering Data Provider to review its accreditation and subsequently apply for re-accreditation include:</p> <ul style="list-style-type: none"> a) Where a Metering Data Provider has been de-registered and seeks re-registration; b) Where a Metering Data 	<p>9 Quality control 9.5 Review of accreditation</p>	<p>8.6.1 now 9.5.1</p>

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>Provider has been suspended from providing services under certain categories and seeks to have the suspension lifted;</p> <p>c) Subsequent changes to Rules requirements, Procedures under the Rules, or Service Level Procedures. This is likely to apply in instances where Rules changes have been made or new versions of the Metrology Procedure have been issued which require significant functional system, process or procedural changes to be made by Metering Data Providers.</p> <p>d) Significant changes or upgrades to a Metering Data Provider's existing systems or a system platform change to any part of the metering data service database. The Metering Data Provider must apply and be re-accredited prior to implementing the changes into their production environment and accepting or transmitting any market transactions, in accordance with the Metering Service Provider Accreditation Procedure; and</p> <p>e) Organisational mergers and acquisitions.</p>		

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	<p>8.7 Sub-Contractors</p> <p>8.7.1 Where an accredited Metering Data Provider engages a sub-contractor to perform any of the obligations specified within the Rules or this service level procedure, the Metering Data Provider must ensure that auditable processes are in place to certify that all work performed by the sub-contractor is compliant with the Rules and this service level procedure.</p>	<p>5 Obligations</p> <p>5.2 Use of sub-contractors</p>	<p>8.7.1 now 5.2.1 reworded a title</p>
	<p>8.7.2 The Metering Data Provider is responsible and liable for all acts and omissions of any engaged sub-contractor.</p>	<p>5 Obligations</p> <p>5.2 Use of sub-contractors</p>	<p>8.7.2 now 5.2.2</p>
	<p>8.7.3 In the event a Metering Data Provider elects to change a subcontractor that is delivering any part of the metering data services, the Metering Data Provider must notify AEMO prior to implementing the change, further:</p> <p>a) Subject to AEMO's assessment, the Meter Data Provider may be required to undertake an accreditation review to validate the new systems or processes in place; and</p> <p>b) Where practicable the re-accreditation review process would</p>	<p>5 Obligations</p> <p>5.2 Use of sub-contractors</p>	<p>8.7.3 now 5.2.3 & 5.2.4 reworded</p>

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	take place as part of a scheduled industry audit. The scope of the re-accreditation and the timing of the review would be assessed on a case by case basis between AEMO and the Metering Data Provider.		
9. ADMINISTRATION	9.1 Change Management 9.1.1 This document may only be changed or updated in accordance with the Rules consultation procedures.	1 Introduction	9.1 is 1 b)
	9.2 Document Location 9.2.1 The AEMO documents listed in this document are available from AEMO's website: http://www.aemo.com.au .		9.2 deleted spurious information
	9.3 Bilateral Agreements 9.3.1 A Registered Participant may request the Metering Data Provider to: a) Provide metering data in an alternate format; and/or b) Deliver metering data in an alternate method; and/or c) Deliver metering data in an alternate time frame; and/or d) Provide any other metering data services.	10 Administration 10.1 Bilateral agreements	9.3.1 now 10.1.1
	9.3.2 Pursuant to clause 9.3.1 of this procedure, there is no	10 Administration 10.1 Bilateral agreements	9.3.2 now 10.1.2

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	mandated requirement for a Metering Data Provider to implement system changes and processes to facilitate bilateral agreements.		
	9.3.3 Any acceptance by the Metering Data Provider to deliver metering data to a Registered Participant in accordance with clause 9.3.1 of this procedure must not impact on metering data delivery to AEMO or any other Registered Participant for the connection point(s) concerned.	10 Administration 10.1 Bilateral agreements	9.3.3 now 10.1.3
	9.3.4 Any bilateral agreement established between the Registered Participant and the Metering Data Provider must be supported in writing for service level procedure audit compliance purposes.	10 Administration 10.1 Bilateral agreements	9.3.4 now 10.1.4
	<p>9.4 Professionalism</p> <p>9.4.1 Wherever a common approach to services is required across Metering Data Providers and Metering Providers in the NEM, each Metering Data Provider must develop, document and apply its procedures for the services in cooperation with AEMO and each relevant responsible person and</p>		Whole section deleted added no value to the document.

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p data-bbox="636 245 1064 384">Network Service Provider to facilitate the effective management of metering data flows between all relevant Registered Participants.</p> <p data-bbox="636 405 1064 687">9.4.2 The Metering Data Provider must establish the necessary working relationships to ensure that matters of customer transfer, data provisioning and maintenance of relevant NMI Standing Data are achieved proficiently.</p> <p data-bbox="636 708 1064 1054">9.4.3 The Metering Data Provider is required to assist AEMO with reasonable requests for the provisioning of metering data and relevant NMI Standing Data information relating to connection points that are part of the market audit process of AEMO, responsible persons, Metering Providers and Metering Data Providers.</p> <p data-bbox="636 1075 1064 1382">9.4.4 In regard to connection points that are part of retailer of last resort events or where the participating jurisdiction has requested AEMO to undertake customer transfers, the Metering Data Provider is required to proactively assist AEMO and Registered Participants with</p>		

Heading/Clause number	Header/Description	New Heading/Description	Changes
	<p>functionality associated with the management of transfers, the processing and transfer of metering data, metering register and relevant NMI Standing Data information in relation to those connection points.</p>		
	<p>9.5 Quality Systems 9.5.1 The Metering Data Provider must: a) Apply and comply with appropriate quality system standards in providing the services required by this service level procedure; and b) Have and retain a quality system that meets clause S7.6.3 of the Rules to the satisfaction of AEMO. AEMO has traditionally accepted quality accreditation to the ISO9001 or ISO9002 standards, subject to the respective business system design and level of accreditation, as meeting this requirement.</p>	<p>10 Administration 10.2 Quality system</p>	<p>9.5.1 now 10.2.1 reworded</p>
	<p>9.6 Disputes 9.6.1 If a dispute arises between the Metering Data Provider and AEMO, a Registered Participant, a Metering Provider or any other Metering Data Provider, in relation to the provision of metering data</p>	<p>10 Administration 10.3 Disputes</p>	<p>9.6 now 10.3.1</p>

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	services or this service level procedure, then the Dispute Resolution process as detailed clause 8.2 of the Rules shall apply.		