



MSATS 46.89 TECHNICAL SPECIFICATION - DECEMBER 2017

**AEMO RELEASE SCHEDULE SERIES:
MSATS1217SMP**



Published	14 August 2017	Version 1.01	Power of Choice - Shared Market Protocol
Schedule	Pre-production:	Wednesday 16 August 2017	
	Production	Friday 1 December 2017	B2B schema r36 released



IMPORTANT NOTICE

Purpose & audience

This document describes the technical changes required to participant's systems for the MSATS 46.89 Release - December 2017 (Release). The Australian Energy Market Operator (AEMO) provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the National Gas or Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on [AEMO's website](#).
- The references listed throughout this document are primary resources and take precedence over this document.
- [Text in this format](#) indicates a reference to a document on [AEMO's website](#).
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules, and information or a term in this document, the Rules take precedence.
- Italicised terms are defined in the National Electricity Rules. Any rules terms not in this format still have the same meaning.
- Capitalised terms are defined in the Glossary. Any terms not in this format still have the same meaning. For an explanation of abbreviations or special terms, see Glossary on page 69.
- Actions to complete in the [Web Portal interface](#) are bold and dark blue.

AEMO reference numbers

Included in each project heading is a Quality Centre Identifier (QCID) that provides useful tracking information. There may be none, one, or more QCIDs relevant to each project heading.

References to change notices are CN followed by the change notice number.

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Distribution

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Documents made obsolete

The release of this document changes only the version of MSATS 46.89 Technical Specification - December 2017.

Further Information

For further information, please visit AEMO's website www.aemo.com.au or contact:

AEMO Support Hub Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.

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1 B2B ENHANCEMENTS

The Market Settlement and Transfer Solution, MSATS 46.89 Release - December 2017 (Release) includes changes related to participants' IT systems. This technical specification describes the Power of Choice (POC) SMP enhancements covering the B2B services planned by AEMO from a participant perspective. AEMO provides this information as a service targeting business analysts and IT staff in participant companies.

Project List

The MSATS 46.89 Technical Specification - December 2017 includes enhancements for the Power of Choice (PoC) implementation program - Shared Market Protocol (SMP).

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1.1 New B2B aseXML schema

1.1.1 Overview

As part of the B2B Framework rule changes and the supporting B2B Procedures, this Release introduces a new B2B aseXML schema: r36.

This technical specification explains the new B2B aseXML schema r36. For details about the B2M aseXML schema r35, see the MSATS 46.88 Technical Specification – December 2017 Embedded Networks.

1.1.2 B2B aseXML schema change summary

Below is a summary of the changes in the B2B aseXML schema r36.

Legend

- **Modified types:** A full list of changed types.
- **Derived types:** A list of any types derived from a modified type and therefore modified by default.
- **Versioned types affected:** A list of all versioned types requiring the version attribute updated.
- **Transactions potentially affected:** A list of all transactions containing a modified type, either directly or using a type substitution.
- **Schema files affected:** A list of schema files changed in some way for this schema.

Modified types	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
				aseXML_r34.xsd
				Events_r34.xsd



Modified types	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
ServiceOrderType ServiceOrderSubType ElectricityMeter ElectricityServiceOrderDetails ElectricityMeterRegisterDetail	ElectricityMeter ElectricityMeters	ElectricityStandingData ServiceOrderRequestData	NMIDiscoveryResponse NMISstandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMISstandingDataUpdateNotification CATSBulkDataRequest MeterReadingReferenceDataResponse ReportResponse	Electricity_r36.xsd
ElectricityMasterStandingData		ElectricityStandingData	MeterDataVerifyRequest MeterDataMissingNotification NMISstandingDataResponse NMIDiscoveryResponse CATSChangeRequest CATSNotification CATSDataRequest ReplicationNotification ReportResponse	ElectricityMasterStandingData.xsd
ServiceOrderRequest ServiceOrderResponse			ServiceOrderRequest ServiceOrderResponse SpecialReadRequest SpecialReadResponse	ServiceOrder_r36.xsd



Modified types	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
CustomerDetail		GasServiceOrderDetails	ServiceOrderRequest ServiceOrderResponse CustomerDetailsNotification	CustomerDetails_r36.xsd

For full details about the changes in the B2B aseXML schema r36, see the [Schema Release Notes](#) on AEMO's website>Electricity>IT Systems>aseXML Standards.

1.1.3 What to do before pre-production

AEMO recommends participants on B2B aseXML schema versions preceding r32 transition to r32 before the pre-production date Wednesday 16 August 2017.

1.1.4 Part 2 – Production implementation

The new aseXML B2B schema r36 and the B2B procedures version 3.00 become active. After deployment of the production release, Friday 1 December 2017, AEMO expects participants to send B2B Messages using the B2B schema r36.

Participants can still send previous schema versions and MSATS will deliver them but they will not align with the B2B procedures v3.00 (effective 1 December 2017).

Transitioning is part of AEMO's POC transition and cutover activities. There is no action required from participants in the B2B Transform interface, from the production release participants' B2B schema is automatically set to r36.

1.1.5 What to do after production implementation

After deployment of the production release, Friday 1 December 2017, AEMO expects participants to send B2B messages using B2B schema r36.

Participants can still send previous schema versions and MSATS will deliver them untransformed but they will not align with the B2B procedures v3.00 (effective 1 December 2017).

For this Release only, AEMO does not support transforms from the current schema r32 to the new schema r36.

To obtain schemas, guidelines, whitepapers etc, see aseXML Standards on AEMO's website>IT Systems.



1.1.6 Impacts of not upgrading to B2B aseXML schema r36

Participants not upgraded by Friday 1 December 2017, risk not being able to transact with other participants complying with the B2B Procedures v3.00 and the B2B aseXML schema r36.

1.1.7 B2B aseXML schema change time frames

Phase	Date	Event
Pre-production	Wednesday 16 August 2017	After the release on this day participants on B2B aseXML schema versions preceding r36 should transition to r36.
Production	Friday 1 December 2017	<p>Shared Market Protocol (SMP) changes including r36 released</p> <p>AEMO transitions all participants to the B2B schema r36. There is no action required from participants in the B2B Transform interface. The new aseXML B2B schema r36 and the B2B procedures version 3.00 become active.</p> <p>AEMO expects participants to send B2B Messages using the B2B schema r36.</p> <p>Participants can still send previous schema versions and MSATS will deliver them but they will not align with the new B2B procedures v3.00 (effective 1 December 2017).</p> <p>For details about MSATS 46.88 Release (EN/MC), see AEMO's website>IT Systems>IT Change and Release Management.</p>

1.2 Validation Module Software

The Validation Module software changes to support the new B2B aseXML schema.

At implementation time, participants can download the new Validation Module software version 1.0.26 from the Electricity Retail and Metering section of AEMO's website. The package contains full details of the changes.

For more details about Service Order transaction validations, see the spreadsheet attached to this document.



1.3 Participant Batcher Software

The Participant Batcher properties file is modified as follows:

- The file types property includes the new B2B transaction groups: MRSR, OWNX, NPNX, PTPE.
- The aseXML schema namespace and location for the generated acknowledgement property supports the new schema r36.

At implementation time, participants can download the new Participant Batcher software version 2.10, supporting the new B2B aseXML schema r36, from the Retail and Metering section of AEMO's website.

1.4 SMP and eHub

AEMO's e-Hub is extended as part of the Shared Market Protocol (SMP) project, adding a new B2B web service framework. The AEMC's rule development process drives the requirements for these changes.

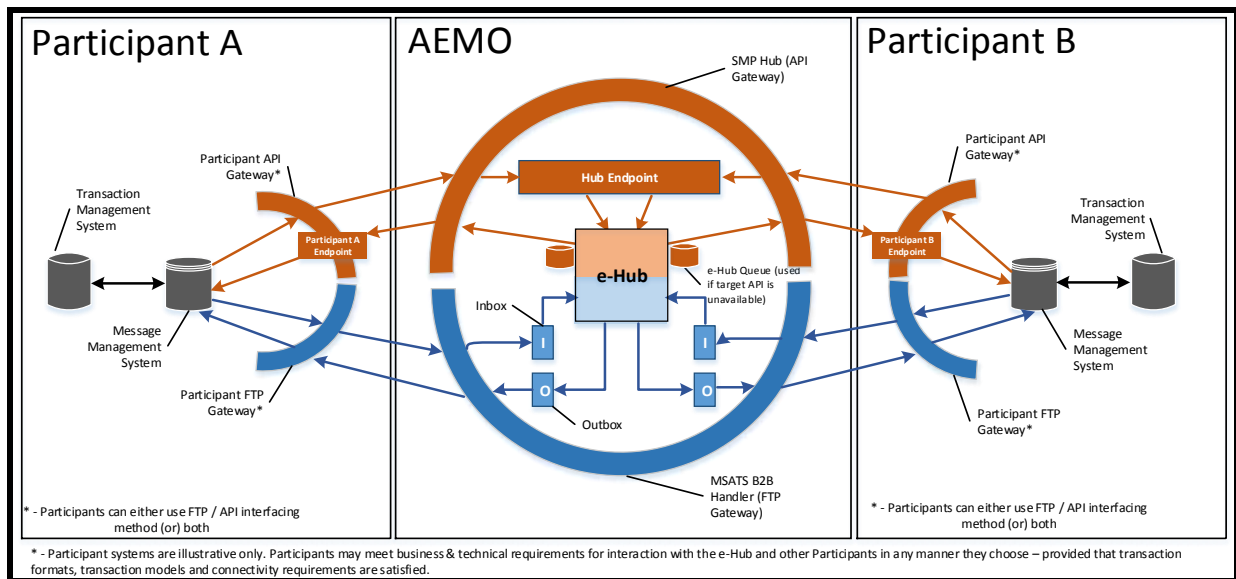
For more information about the B2B Framework rule changes, see [Updating the B2B Framework Rule Change on the AEMC website](#).

The *B2B e-Hub* allows participants to send and receive B2B messages and acknowledgements in their chosen protocol (FTP or API), irrespective of the sender or receiver's chosen protocol. This works by incorporating the existing MSATS B2B Browser and MSATS B2B Batch Handlers (using the FTP Hokey-pokey Protocol) with the new e-Hub APIs.

The *B2B e-Hub* consist of:

1. The **MSATS B2B Browser**.
2. The **MSATS B2B Batch Handlers** using the existing FTP Hokey-pokey Protocol.
3. The new **e-Hub API Platform**, containing:
 - a. The **e-Hub API Gateway** where participants can use web service API's for sending and receiving electricity retail B2B transactions. The gateway supports interoperability with the existing FTP Hokey-pokey Protocol.
 - b. The **e-Hub API Portal** where registered participants can discover API's and obtain their API keys.

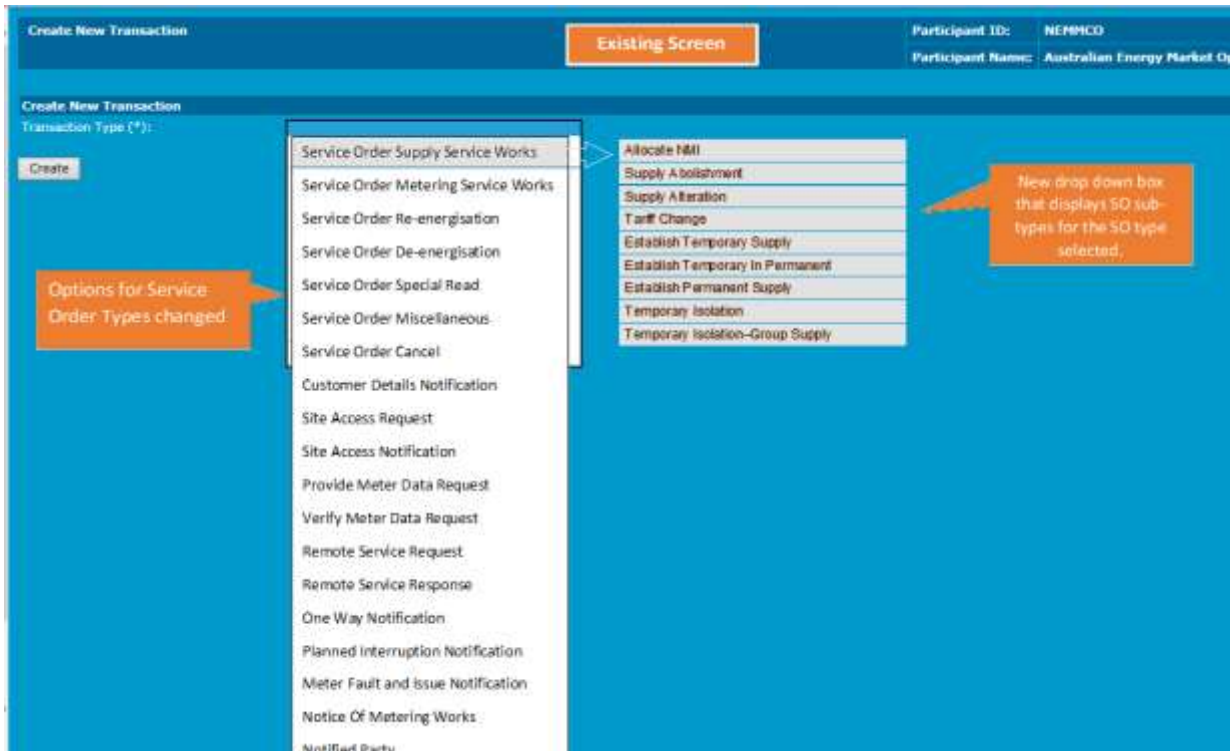
For information about the technical specifications for the delivery of B2B Transactions using the e-Hub API Gateway, see [Shared Market Protocol Technical Guide](#).



1.5 Create New Transactions

The following changes exist in the existing **Create New Transaction** interface:

1. The recipient's role displays in the **To** drop-down field, filtered by eligible roles for the transaction type: LNSP, FRMP, LR, RP, ROLR.
2. A new Notified Party **To** drop-down field is added, filtered by eligible roles for the transaction type, currently Service Order Request.
3. Message creation integrates with the *B2B e-Hub*.
4. Changes to the Transaction Type drop-down list.
5. Changes to the Transaction Subtypes.



1.5.1 B2B Transactions summary

To reflect the changes in the new aseXML B2B schema r36 and the differences between the existing FTP Hokey-pokey Protocol and the new API Web Services Protocol, there are changes to some existing B2B Transaction interfaces and some new transaction interfaces created.

This table provides a summary of the new and changed B2B Transactions:

Transaction	Procedure	Status	MSATS B2B interface change
Create New Transaction	n/a	Changed	Change to options in the Transaction Type drop-down field. For more detail, see page 7.
Customer Details Notification	CSDN	Changed	A new Email Address field added.
Meter Fault and Issue Notification	OWN	New	n/a
Notice of Metering Works	OWN	New	n/a
Notified Party	OWN	New	n/a
Planned Interruption Notification	OWN	New	n/a

Transaction	Procedure	Status	MSATS B2B interface change
Remote Service Request	MDP	New	n/a
Remote Service Response	MDP	New	n/a
Site Access Request	CSDN	New	n/a
Verify Meter Data Request	MDP	Changed	Change to options in the Investigation Code drop-down field.

1.5.2 Customer Details Notification

The existing Customer Details Notification has a new optional email address field. This field is included in the Validation Module software.

Customer Contact Name

Name Title:

Given Name: Family Name:

Name Type: Name Suffix...:

Email Address:

1.1.1.1 1.2.7.1 User rights access

The entity required for access is **B2B Trans Customer Details Notification**.

1.5.3 Meter Fault and Issue Notification

There is a new Meter Fault and Issue Notification transaction.



The interface has the following fields:

Field	Format	Required	Type	Validations
NMI	CHAR(10)	Yes	Text	
NMI Checksum	CHAR(1)	Yes	Text	
Date	DATE	Yes	Text	dd/mm/yyyy
Start Date	DATE	Optional	Text	dd/mm/yyyy
Start Time	TIME	Optional	Text	
End Date	DATE	Optional	Text	dd/mm/yyyy
Duration	VARCHAR(5)	Optional	Text	If complete, the format of the field is: HH:MM
Supply On	CHAR(1)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> Y N
Supply Off	CHAR (40)	Yes, when the SUPPLY ON value = No	Drop-down	Allowed values: <ul style="list-style-type: none"> Remove Fuse Remote Local Meter Disconnection Pillar-Box Pit Or Pole-Top
Meter Serial Number	VARCHAR (12)	Optional	Text	This is a repeatable field.



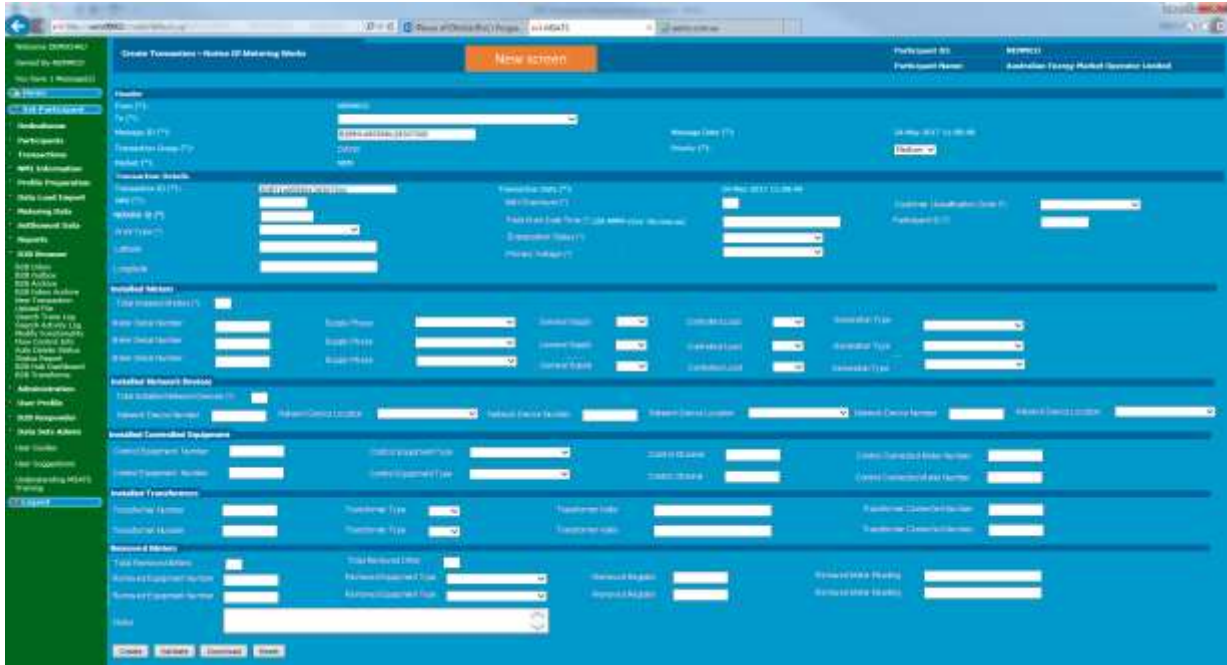
Field	Format	Required	Type	Validations
Reason For Notice	VARCHAR(50)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none">▪ Meter Family Failure▪ Accuracy Failure▪ Timeswitch/Controlled Load Failure▪ Contactor Failure▪ No Display▪ Communication Failure▪ Meter Verification▪ Malfunction▪ Area Event▪ Metrology Threshold Breach▪ Meter Bypassed▪ Physical Damage▪ Theft/Tampering▪ Other
Notes	VARCHAR (240)	Yes, when Reason For Notice = Other.	Text	n/a

1.5.3.1 User rights access

The entity required for access is **B2B Meter Fault and Issue Notification**.

1.5.4 Notice of Metering Works

There is a new Notice of Metering Works transaction.



The interface has the following fields:

Field	Format	Required	Type	Validations
Nomw ID	VARCHAR(12)	Yes	Text	n/a
NMI	CHAR(10)	Yes	Text	n/a
NMI Checksum	CHAR(1)	Yes	Text	n/a
Work Type	VARCHAR(50)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> Exchange Equipment Install Equipment Remove Equipment Relocate
Field Work Date Time	DATETIME	Yes	Text	n/a
Customer Classification Code	VARCHAR(15)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> Residential Business



Field	Format	Required	Type	Validations
Energisation Status	VARCHAR (50)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> Active Not Connected Deenergised Before Meter Deenergised At Meter Deenergised After Meter
Primary Voltage	VARCHAR(8)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> 230V 400V 11KV 22KV 33KV 66KV 132KV Other HV
Latitude	NUMERIC (s2.7)	Optional	Text	n/a
Longitude	NUMERIC (s3.7)	Optional	Text	n/a
Participant ID	VARCHAR(10)	Yes	Text	n/a
Total Installed Meters	NUM(2)	Yes	Text	n/a
Meter Serial Number	VARCHAR(12)	Optional	Text	This is a repeatable field.
Supply Phase	VARCHAR(20)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> 1-Phase 2-Phase 3-Phase Other Multi-Phase This is a repeatable field.
General Supply	VARCHAR(3)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> Yes No This is a repeatable field.



Field	Format	Required	Type	Validations
Controlled Load	VARCHAR(3)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> Yes No This is a repeatable field.
Generation Type	VARCHAR(5)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> Net Gross None This is a repeatable field.
Total Installed Network Devices	NUM(2)	Yes	Text	n/a
Network Device Number	VARCHAR(12)	Optional	Text	This is a repeatable field.
Network Device Location	VARCHAR(14)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> Before Meter After Meter This is a repeatable field.
Control Equipment Number	VARCHAR(12)	Optional	Text	This is a repeatable field.
Control Equipment Type	VARCHAR(25)	Yes, for each Control Equipment Number	Drop-down	Allowed values: <ul style="list-style-type: none"> Internal Relay External Relay Internal Time Switch External Time Switch This is a repeatable field. Validation is included in the B2B Validation Module.
Control Channel	VARCHAR(12)	Yes, for each Control Equipment Number	Text	This is a repeatable field. Validation is included in the B2B Validation Module.
Control Connected Meter Number	VARCHAR(12)	Optional	Text	This is a repeatable field.



Field	Format	Required	Type	Validations
Transformer Number	VARCHAR(12)	Optional	Text	This is a repeatable field.
Transformer Type	VARCHAR(2)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> CT VT This is a repeatable field.
Transformer Ratio	VARCHAR(20)	Optional	Text	n/a
Transformer Connected Meter Number	VARCHAR(12)	Optional	Text	This is a repeatable field.
Total Removed Meters	NUM(2)	Optional	Text	n/a
Total Removed Other	NUM(2)	Optional	Text	n/a
Removed Equipment Number	VARCHAR(12)	Optional	Text	This is a repeatable field.
Removed Equipment Type	VARCHAR(25)	Yes, for each Removed Equipment Number	Drop-down	Allowed values: <ul style="list-style-type: none"> Basic Meter Interval Meter Network Device Control Equipment Instrument Transformer This is a repeatable field. Validation is included in the B2B Validation Module.
Removed Register	VARCHAR(10)	Yes, if the Removed Equipment Type is a Basic Meter.	Text	This is a repeatable field. Validation is included in the B2B Validation Module.

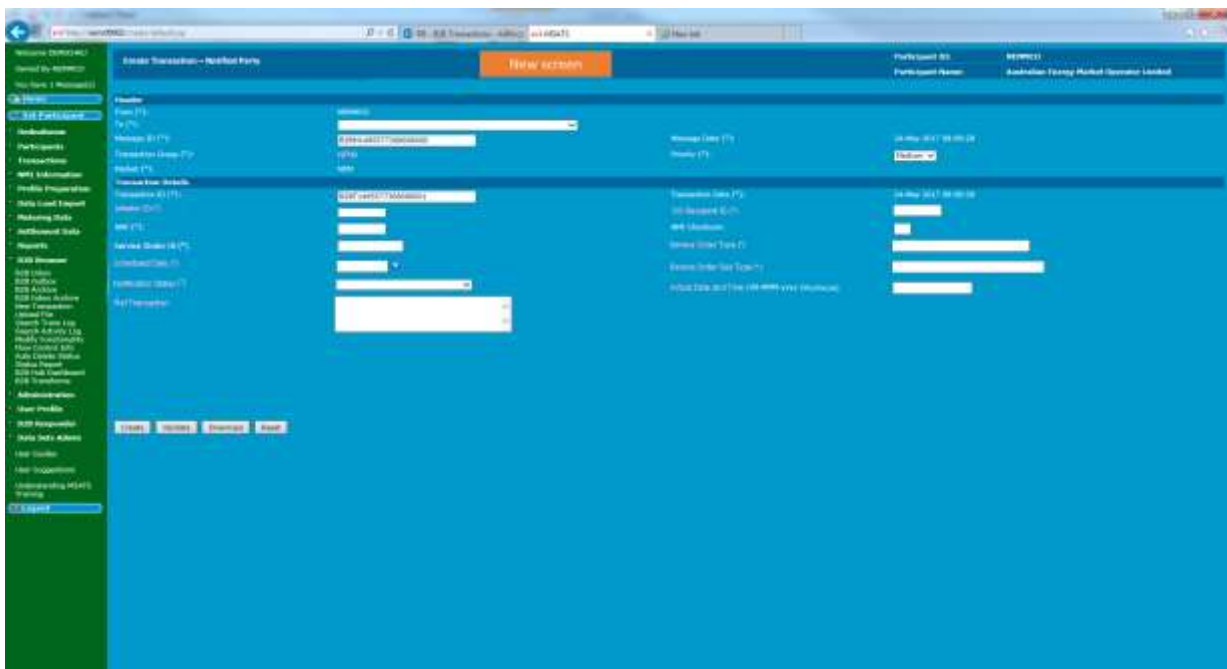
Field	Format	Required	Type	Validations
Removed Meter Reading	VARCHAR(15)	Yes, if the Removed Equipment Type is a Basic Meter.	Text	Validation is included in the B2B Validation Module.
Notes	VARCHAR(240)	Optional	Text	n/a

1.5.4.1 User rights access

The entity required for access is **B2B NOTICE OF METERING WORKS**.

1.5.5 Notified Party

There is a new Notified Party transaction.



The interface has the following fields:

Field	Format	Required	Type	Validations
Initiator ID	VARCHAR(10)	Yes	Text	n/a
SO Recipient ID	VARCHAR(10)	Yes	Text	n/a



Field	Format	Required	Type	Validations
NMI	CHAR(10)	Yes	Text	n/a
NMI Checksum	CHAR(1)	Optional	Text	n/a
Service Order ID	VARCHAR(15)	Yes	Text	n/a
Service Order Type	VARCHAR(22)	Yes	Drop-down	Allowed values: -All current service order types.
Service Order Sub Type	VARCHAR(40)	Yes	Drop-down	Allowed values: The list of service order subtypes that change depending on the service order type selected.
Scheduled Date	DATE	Yes	Text	n/a
Actual Date And Time	DATETIME	Optional	Text	n/a
Notification Status	VARCHAR(30)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> ▪ SO Requested ▪ SO Rejected ▪ SO Completion ▪ Accepted by Notified Party ▪ Rejection by Notified Party ▪ Notified Party Stopped
Ref Transaction	aseXML	Optional	Text	n/a

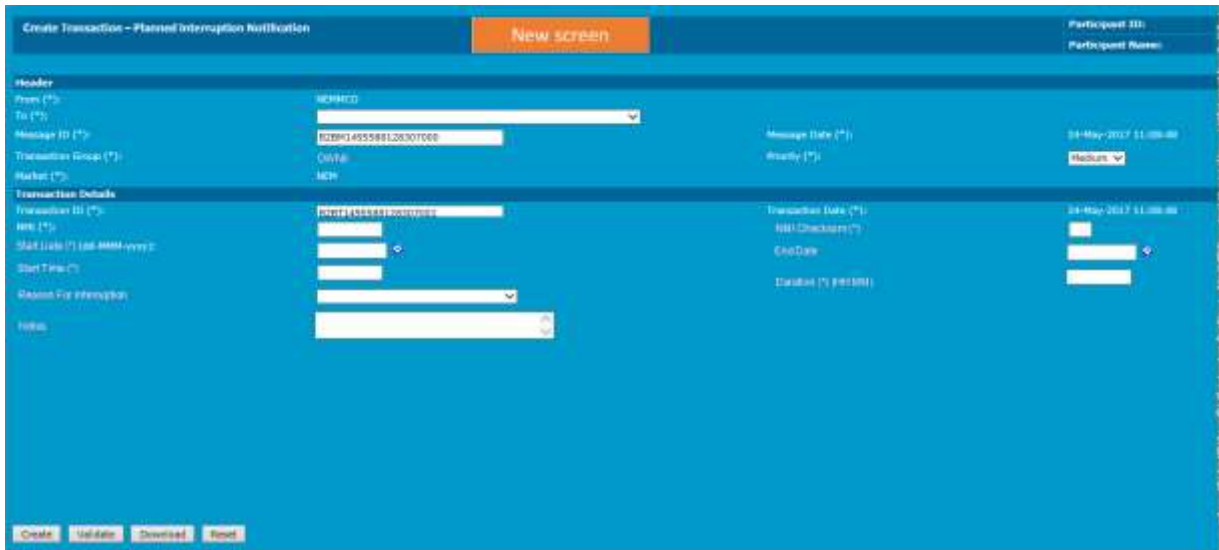
1.5.5.1 User rights access

The entity required for access is **B2B Notified Party**.



1.5.6 Planned Interruption Notification

There is a new Planned Interruption Notification transaction.



The interface has the following fields:

Field	Format	Required	Type	Validations
NMI	Char(10)	Yes	Text	n/a
NMI Checksum	Char(1)	Yes	Text	n/a
Start Date	DATE	Yes	Text	dd/mm/yyyy
Start Time	TIME	Yes	Text	n/a
End Date	DATE	Optional	Text	dd/mm/yyyy
Duration	VARCHAR(5)	Yes	Text	The format of the field is: HH:MM
Reason For Interruption	VARCHAR(50)	Optional	Drop-down	Allowed values: <ul style="list-style-type: none"> ▪ Meter Exchange - Individual ▪ Meter Exchange - Rollout ▪ Meter Replacement – Family Maintenance ▪ Meter Test ▪ Meter Fault Investigation ▪ Distribution Works ▪ Other

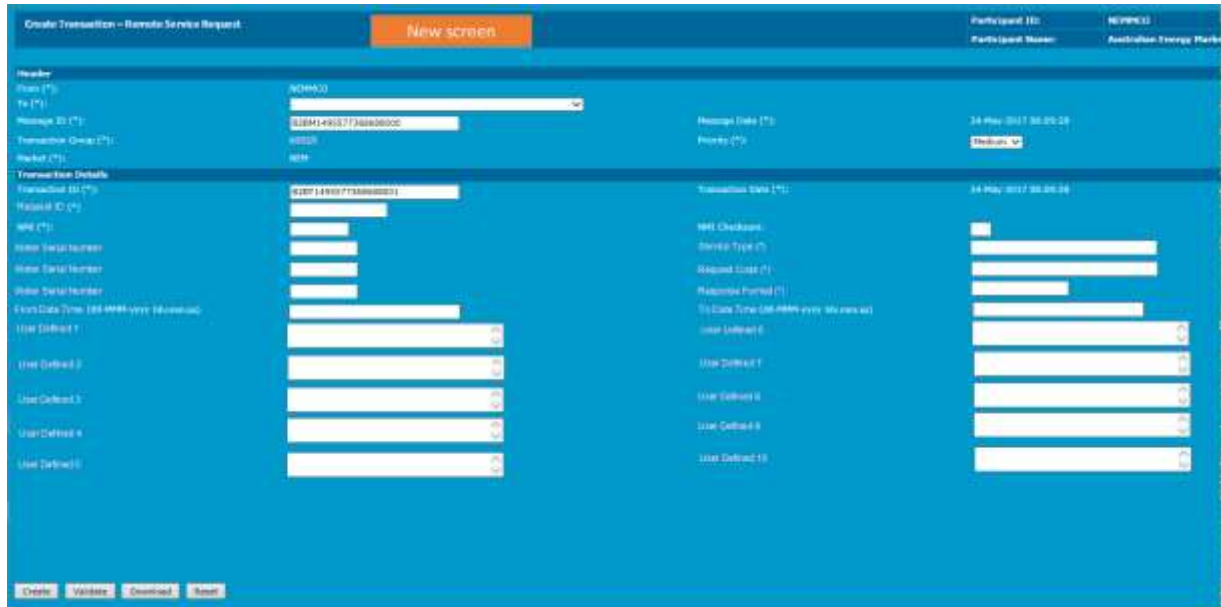
Field	Format	Required	Type	Validations
Notes	VARCHAR (240)	Yes, when Reason For Interruption = Other	Text	

1.5.6.1 User rights access

The entity required for access is **B2B Planned Interruption Notification**.

1.5.7 Remote Service Request

There is a new Remote Service Request transaction.



The interface has the following fields:

Field	Format	Required	Type	Validations
Request ID	VARCHAR(15)	Yes	Text	n/a
NMI	CHAR(10)	Yes	Text	n/a
NMI Check Sum	CHAR(1)	Yes	Text	n/a
Meter Serial Number	VARCHAR(12)	Yes	Text	This is a repeatable field
Service Type	VARCHAR(40)	Yes	Text	n/a



Field	Format	Required	Type	Validations
Request Code	VARCHAR(40)	Yes	Text	n/a
Response Format	VARCHAR(20)	Yes	Text	n/a
From Date Time	DATETIME	Optional	Text	n/a
To Date Time	DATETIME	Optional	Text	n/a
User Defined 1	VARCHAR(240)	Optional	Text	n/a
User Defined 2	VARCHAR(240)	Optional	Text	n/a
User Defined 3	VARCHAR(240)	Optional	Text	n/a
User Defined 4	VARCHAR(240)	Optional	Text	n/a
User Defined 5	VARCHAR(240)	Optional	Text	n/a
User Defined 6	VARCHAR(240)	Optional	Text	n/a
User Defined 7	VARCHAR(240)	Optional	Text	n/a
User Defined 8	VARCHAR(240)	Optional	Text	n/a
User Defined 9	VARCHAR(240)	Optional	Text	n/a
User Defined 10	VARCHAR(240)	Optional	Text	n/a

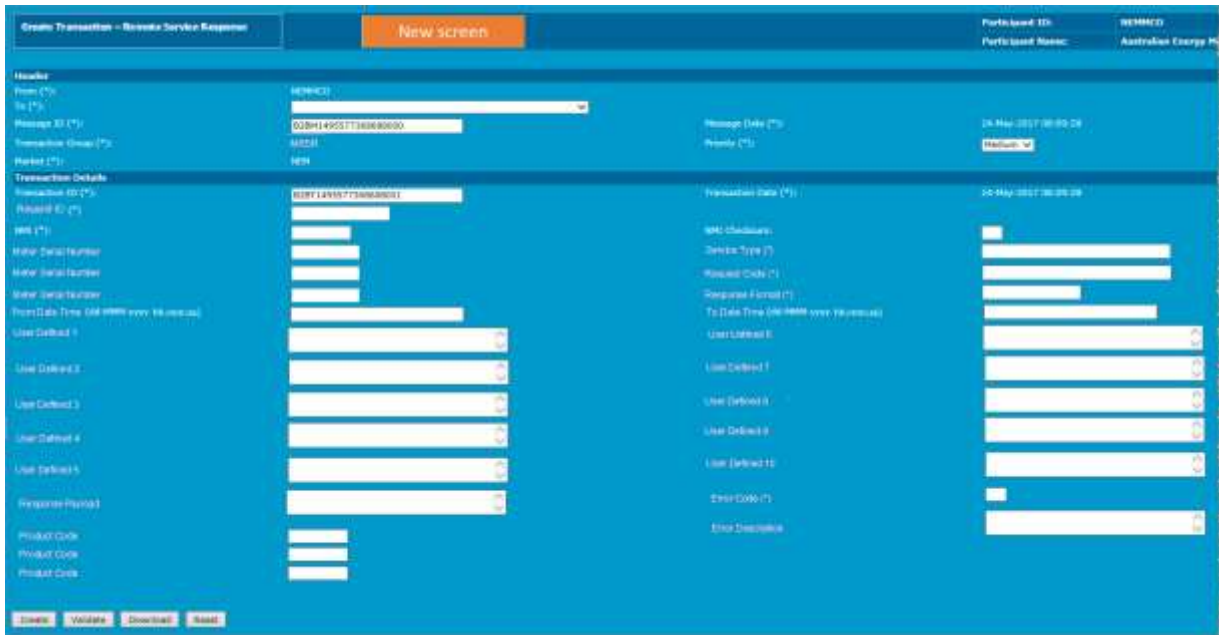
1.5.7.1 User rights access

The entity required for access is **B2B Remote Service Request**.



1.5.8 Remote Service Response

There is a new Remote Service Response transaction.



The interface has the following fields:

Field	Format	Required	Type	Validations
Request ID	VARCHAR(15)	Yes	Text	n/a
NMI	CHAR(10)	Yes	Text	n/a
NMI Checksum	CHAR(1)	Yes	Text	n/a
Meter Serial Number	VARCHAR(12)	Yes	Text	n/a
Service Type	VARCHAR(40)	Yes	Text	n/a
Request Code	VARCHAR(40)	Yes	Text	n/a
Response Format	VARCHAR(20)	Yes	Text	n/a
From Date Time	DATETIME	Optional	Text	n/a
To Date Time	DATETIME	Optional	Text	n/a



Field	Format	Required	Type	Validations
User Defined 1	VARCHAR(240)	Optional	Text	n/a
User Defined 2	VARCHAR(240)	Optional	Text	n/a
User Defined 3	VARCHAR(240)	Optional	Text	n/a
User Defined 4	VARCHAR(240)	Optional	Text	n/a
User Defined 5	VARCHAR(240)	Optional	Text	n/a
User Defined 6	VARCHAR(240)	Optional	Text	n/a
User Defined 7	VARCHAR(240)	Optional	Text	n/a
User Defined 8	VARCHAR(240)	Optional	Text	n/a
User Defined 9	VARCHAR(240)	Optional	Text	n/a
User Defined 10	VARCHAR(240)	Optional	Text	n/a
Response Payload	DATA	Optional	Text	n/a
Error Code	VARCHAR(4)	Yes	Text	n/a
Error Description	VARCHAR(240)	Optional	Text	n/a
Product Code	VARCHAR(10)	Optional	Text	This is a repeatable field.

1.5.8.1 User rights access

The entity required for access is **B2B Remote Service Response**.



1.5.9 Site Access Request

There is a new Site Access Request transaction.

Create Transaction - Site Access Request

Participant ID: NEMMCO

Participant Name: Australian Energy Market Operat

This transaction is valid.
To save this transaction to your inbox, please click the Create button.
To download this transaction, please click the Download button.

Header

From (*): NEMMCO
 To (*):
 Message ID (*): B2BM1496848714689000 Message Date (*): 8-Jun-2017 01:18:34
 Transaction Group (*): SITE Priority (*): Medium
 Market (*): NEM

Site Access Details

Transaction ID (*): B2BT1496848714741000 Transaction Date: 8-Jun-2017 01:18:34
 NMI (*): 1234567890 NMI Checksum:
 Reason (*): No Access details on file for NMI
 Special Notes:

Create Validate Download Reset

The interface has the following fields:

Field	Format	Required	Type	Validations
NMI	CHAR(10)	Yes	Text	n/a
NMI Checksum	CHAR(1)	Yes, if Reason = Other	Text	n/a
Reason	VARCHAR(40)	Yes	Drop-down	Allowed values: <ul style="list-style-type: none"> ▪ New Retailer for site ▪ Records old and need to be updated ▪ No Access details on file for NMI ▪ No Hazard Details on file for NMI ▪ Site Visit Required ▪ Other
Special Notes	VARCHAR(240)	Yes, if Reason = Other	Text	



1.5.9.1 User rights access

The entity required for access is **B2B Site Access Request**.

1.5.10 Verify Meter Data Request

There are the following changes to the Investigation Code drop-down list.

Options	Status
Recipient not responsible for the NMI	Removed
Require Latest Version	Removed
Verify/Missing Register	Added
Require Estimate Data	Added
Meter Churn	Added



1.5.10.1 User rights access

The entity required for access is **B2B Trans Verify Meter Data Request**.

1.6 Service Order Transactions

1.6.1 Changed Service Order Types and Subtypes

Service Order Types	Service Order Subtypes	Status	Change
Supply Service Works	Allocate NMI	Changed	Name change from Service Order Request - Allocate NMI
	Establish Temporary Supply	Changed	Name change from Service Order Request - New Connection
	Establish Temporary In Permanent		
	Establish Permanent Supply		
	Supply Alteration	New	n/a
	Supply Abolishment	Changed	Name change from Service Order Request - Supply Abolishment
	Temporary Isolation	New	n/a
	Temporary Isolation–Group Supply		
Tariff Change	Changed	Name change from Service Order Request Meter reconfiguration	
Re-Energisation	Remote	Changed	Name change from Service Order Request - Re-energisation
	Physical Visit		
	Move-in		
	Recipient Discretion		
	After Disconnection For Non-Payment		
	Retrospective Move-in		



Service Order Types	Service Order Subtypes	Status	Change
De-Energisation	Disconnect at Pillar-Box PitOrPole-Top	Changed	Name change from Service Order Request - De-energisation
	Remote		
	Local Meter Disconnection		
	Recipient Discretion		
	Remove Fuse		
Special Read	Check Read	Changed	Name change from Service Order Request - Special Read
	Final Read		
Metering Service Works	Install Meter	Changed	Name change from Service Order Request - Adds and Alts
	Move Meter		
	Exchange Meter		
	Install Controlled Load		
	Remove Meter	New	
	Meter Reconfiguration	Changed	Name change from Service Order Request - Meter Reconfiguration
	Meter Investigation-Inspect	Changed	Name change from Service Order Request - Meter Investigation
	Meter Investigation-Test		
	Reseal Device		
	Change Timeswitch Settings		
Miscellaneous	There are no sub types	Changed	Name change from Service Order Request Miscellaneous



Service Order Types	Service Order Subtypes	Status	Change
Cancel	There are no sub types	Changed	Name change from Service Order Request - Cancel
Response	There are no sub types	Changed	Name change from Service Order Request - Response



1.6.2 Supply Service Works - Allocate NMI

Create Transaction - Supply Service Works Allocate NMI View in a full editing context Cancel (Alt page 1) Participant ID: 46799633 Participant Name: Australian Energy Market Operator Limited

Header
 From (*) 46799633
 To (*) 46799633
 Message ID (*) 4679963346799633
 Transaction Group (*) 46799633
 Market (*) 46799633
 Message Date (*) 9-Jan-2017 00:00:19
 Priority (*) Medium

Service Order Summary
 Transaction ID (*) 4679963346799633
 Order Type (*) 46799633
 Transaction Date (*) 9-Jan-2017 00:14:19
 Add Comments
 Service Order Type 46799633
 Add Comments
 Service Order ID 46799633
 Add Comments
 Allocation 46799633

Service Order Address
 Standard Address
 Flat or Unit Type: [dropdown]
 Floor or Level Type: [dropdown]
 Building Or Property Name 1: [text]
 Building Or Property Name 2: [text]
 Location Description: [text]
 Street Number: [text]
 Lot Number: [text]
 Street Name: [text]
 Street Type: [dropdown]
 Street Suffix: [text]
 Postal Delivery Type: [dropdown]
 Postal Delivery Number Value: [text]
 Standard Address
 International Address 1: [text]
 International Address 2: [text]
 International Address 3: [text]
 Locality (*) [text]
 Postcode (*) [text]
 Sub Address (NMI): [text]
 Flat or Unit Number: [text]
 Floor or Level Number: [text]
 Postal Number Suffix: [text]
 Postal Delivery Number Prefix: [text]
 Postal Delivery Number Suffix: [text]
 State (*) [dropdown]

Service Order Details
 Name Type: [text]
 Name: [text]
 Name Type: [dropdown]
 Public Name: [text]
 Name Suffix: [text]

Address Contact Point Details
 Public: [text] Number: [text] Service Type: [dropdown] Service Comment: [dropdown]
 Public: [text] Number: [text] Service Type: [dropdown] Service Comment: [dropdown]
 Public: [text] Number: [text] Service Type: [dropdown] Service Comment: [dropdown]

REC Name
 Name Type: [text]
 Name: [text]
 Name Type: [dropdown]
 Public Name: [text]
 Name Suffix: [text]

REC Business Name
 Name Type: [text]
 Name: [text]
 Name Type: [dropdown]
 Public Name: [text]
 Name Suffix: [text]
 Business Name: [text]

REC Location
 Public: [text] Number: [text] Service Type: [dropdown] Service Comment: [dropdown]
 Public: [text] Number: [text] Service Type: [dropdown] Service Comment: [dropdown]
 Public: [text] Number: [text] Service Type: [dropdown] Service Comment: [dropdown]

Service Order Details
 Type Subscript: [dropdown]
 Fuel Source: [text]
 Service Certificate Method Desc: [text]
 Maximum Generation Capacity (MW): [text]
 General Instructions 1: [text]
 General Instructions 2: [text]
 General Instructions 3: [text]
 Average Daily Load (MW): [text]
 Customer Type (MW): [text]
 Resources Element: [text]
 International Resource Permit Name: [text]
 Fuel Reference: [text]
 Safety Database ID: [text]
 Induction Type: [text]
 Safety Program ID: [text]
 CAT Prod Measurements: [text]
 REC Resource Assigned: [dropdown]

Create Transaction - Supply Service Works Allocate NMI View in a full editing context Cancel (Alt page 1) Participant ID: 46799633 Participant Name: Australian Energy Market Operator Limited

Order
 ID (*) [text]
 Name (*) [text]
 Type (*) [text]
 Status (*) [text]
 Create Validate Cancel Close



1.6.3 Supply Service Works - Establish Temporary/Temporary Permanent/Permanent

Single Event Creation - Supply Service Works (Establish Temporary/Temporary Permanent/Permanent)

Participant ID: **NSWREG**
Participant Name: **Australian Energy Market Operator Limited**

Message ID: **12345678901234567890** Message Date: **9 Jan 2017 10:00:00**

Transaction Group: **1234567890** Priority: **Normal**

Service Order Amount: **12345678901234567890** Transaction Date: **9 Jan 2017 10:00:00**

Transmission Date: **9 Jan 2017 10:00:00** **Cancel (10/10/17)** **Cancel (10/10/17)** **Cancel (10/10/17)**

Retention Order Type: **Cancel Existing Order** Service Order Sub Type: **Permanent**

Retention Order Address: **Cancel Existing Order**

Physical Address:

House or Land Type: **House or Land** House or Land Number: **1234567890**

Building Or Property Name 1: **1234567890** House Number Suffix: **1234**

Building Or Property Name 2: **1234567890** House Number Suffix: **1234**

Location Description: **1234567890** House Number Suffix: **1234**

House Number: **1234567890** House Number Suffix: **1234**

Lot Number: **1234567890** House Number Suffix: **1234**

Street Name: **1234567890** House Number Suffix: **1234**

Street Type: **1234567890** House Number Suffix: **1234**

House Suffix: **1234567890** House Number Suffix: **1234**

Postal Delivery Type: **1234567890** House Number Suffix: **1234**

Postal Delivery Number Prefix: **1234567890** House Number Suffix: **1234**

Postal Delivery Number Suffix: **1234567890** House Number Suffix: **1234**

Postal Delivery Number Value: **1234567890** House Number Suffix: **1234**

Unstructured Address:

Unstructured Address 1: **1234567890** House Number Suffix: **1234**

Unstructured Address 2: **1234567890** House Number Suffix: **1234**

Unstructured Address 3: **1234567890** House Number Suffix: **1234**

Location: **1234567890** House Number Suffix: **1234**

Postcode: **1234567890** House Number Suffix: **1234**

Site Address (SAP): **1234567890** House Number Suffix: **1234**

Service Point:

Service Details: **1234567890** **1234567890** **1234567890**

Service Description 1: **1234567890** **1234567890** **1234567890**

Service Description 2: **1234567890** **1234567890** **1234567890**

Service Description 3: **1234567890** **1234567890** **1234567890**

Supplier Contract Name: **1234567890** **1234567890** **1234567890**

Supplier Name: **1234567890** Party Name: **1234567890**

Supplier Type: **1234567890** Party Suffix: **1234567890**

Supplier Contract Reference Number:

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Supplier Contract Name: **1234567890** **1234567890** **1234567890**

Supplier Name: **1234567890** Party Name: **1234567890**

Supplier Type: **1234567890** Party Suffix: **1234567890**

Supplier Contract Reference Number:

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Customer Contract Name: **1234567890** **1234567890** **1234567890**

Customer Name: **1234567890** Party Name: **1234567890**

Customer Type: **1234567890** Party Suffix: **1234567890**

Customer Contract Reference Number:

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Number: **1234567890** Service Type: **1234567890** Service Comment: **1234567890**

Agreement Details:

Agreement Reference: **1234567890** Calculated Date (TS&R#M#): **1234567890**

Market Code (TS&R#M#): **1234567890** Market Type (TS&R#M#): **1234567890**

This is now a field that allows the type selected in the dropdown to be selected again.



The screenshot shows a web form titled 'Supply Alteration' with a blue background. The form is organized into several sections:

- Service Order Details:** Includes fields for 'Customer Classification Requested (%)', three 'Special Instructions' fields, 'Installation Type', 'Supply Phase', 'Meter Sited Field (%)', 'Metering Equipment', three 'MFT Read Requirements' fields, 'Meterset Location', 'Subscribed Network Order Name', 'MFT Status Code', 'Proposed Type', 'Flow Information', and 'Safety Instructions (IC)'. There are also 'Average Daily Load (%)' and 'Customer Type (%)' fields with a 'WARNING: Daily Load Cannot Be' and 'WARNING: Safety Instructions Cannot Be' message.
- Notes:** A section for adding notes with a 'New Note' button.
- MFC Details:** Includes 'MFC WST (%)', 'MFC Installation Required (%)', and an 'MFC Reason' section with 'Reason Code', 'Reason Name', 'Reason Type', and 'Business Name' fields.
- MFC Telephone Numbers:** A table with columns for 'Number', 'Business', and 'Service Type'. It contains three rows of input fields.

At the bottom of the form, there are buttons for 'Cancel', 'Submit', 'Clear', and 'Done'. On the right side, there are dropdown menus for 'Service Type' and 'Service Comment'.

1.6.4 Supply Service Works - Supply Alteration

Same changes as Supply Service Works - Establish Temporary/Temporary Permanent/Permanent on page 29.



1.6.6 Supply Service Works - Temporary Isolation – All

Supply Transaction - Supply Service Works Temporary Isolation - All Participant ID: AEMO01
Participant Name: Australian Energy Market Operator Limited

Header

Name (*) [input]
Message ID (*) [input]
Transaction Group (*) [input] Message Date (*) 8 Jun 2017 10:52:56
Market (*) [input] Priority (*) [input] [Details](#)

Service Order Request

Transaction ID (*) [input] Transaction Date 8 Jun 2017 10:52:56
Order Type (*) [input] [Service Order ID](#) [input] [Order Party ID](#) [input]
Order ID (*) [input] Order Description [input]

Service Order Type

Service Order Type (*) [Supply Service Work](#) [Supply Order Set Flow](#) [Order Confirmation](#)

Service Order Details

Order Details 1 (*) [input] [Order Status](#) [input]
Order Details 2 (*) [input] [Supply Order Confirmation Request](#) [input]
Order Details 3 (*) [input]

Customer Contact Name

Name Title [input]
Given Name [input] Family Name [input]
Name Type [input] Name Suffix [input]

Customer Contact Telephone Numbers

Mobile [input] Business [input] Home [input] Service Type [input] Service Comment [input]
Mobile [input] Business [input] Home [input] Service Type [input] Service Comment [input]
Mobile [input] Business [input] Home [input] Service Type [input] Service Comment [input]

Appointment Details

Appointment Reference [input] Appointment Date (YYMMDD) [input]
Preferred Time (YYMMDD) [input] Preferred Time (YYMMDD) [input]

Service Order Details

Order Type (*) [input]
Customer Contribution Required (*) [input]
Service Order Address 1 [input]
Service Order Address 2 [input]
Service Order Address 3 [input]
From Reference [input] From Suffix [input]

[Close](#) [Update](#) [Cancel](#) [Save](#)

Supply Transaction - Supply Service Works Temporary Isolation - All Participant ID: AEMO01
Participant Name: Australian Energy Market Operator Limited

Customer Contact Name

Name Title [input]
Given Name [input] Family Name [input]
Name Type [input] Name Suffix [input]

Customer Contact Telephone Numbers

Mobile [input] Business [input] Home [input] Service Type [input] Service Comment [input]
Mobile [input] Business [input] Home [input] Service Type [input] Service Comment [input]
Mobile [input] Business [input] Home [input] Service Type [input] Service Comment [input]

Appointment Details

Appointment Reference [input] Appointment Date (YYMMDD) [input]
Preferred Time (YYMMDD) [input] Preferred Time (YYMMDD) [input]

Service Order Details

Order Type (*) [input]
Customer Contribution Required (*) [input]
Service Order Address 1 [input]
Service Order Address 2 [input]
Service Order Address 3 [input]
From Reference [input] From Suffix [input]

[Close](#) [Update](#) [Cancel](#) [Save](#)



1.6.7 Supply Service Works - Tariff Change

Create Transaction: Supply Order Request (New Registration) Participant ID: NEMMO
Participant Name: Australian Energy Market Operator Limited

[Supply Service Works](#) [Tariff Change 10](#)

Header

Order ID:
 To (TO):
 Message ID (M):
 Transaction Date (T): 01/01/2017
 Market (M): NEM

Message Date (T): 01/01/2017 14:28:06
 Priority (P):

Service Order Request

Registration ID (R): E1B14869000462000
 Order Type (O):
 MRP (M):

Transaction Date: 01/01/2017 14:28:06
 App Request Order (A):
 MRP Submitter:

Service Order Area

Service Order Type (S):
 Service Order Sub Type (U):

Service Point

Service Details (D):
[View Details 10](#)

Related Information 1

Related Information 2

Related Information 3

Supplier Contact Name

Name Title:
 Contact Name:
 Name Suffix:

Family Name:
Name Suffix:

Customer Contact Telephone Numbers

Mobile	Number	Service Type	Service Comment
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

Customer Contact Name

Name Title:
 Contact Name:
 Name Suffix:

Family Name:
Name Suffix:

Business Contact Name

Name Title:
 Contact Name:
 Name Suffix:

Family Name:
Name Suffix:

Customer Contact Telephone Numbers

Mobile	Number	Service Type	Service Comment
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

Customer Contact Telephone Numbers

Mobile	Number	Service Type	Service Comment
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

Appointee Details

Appointee Reference:
 Appointee Name:
 Appointee Title:
 Appointee Email:

Service Order Details

Service Type (T):
 Customer Registration Request ID (C):

Scheduled Date (S) (MM/YY/YY):

[Schedule Services](#)
[BY Plan Requirements](#)
[View Order Log](#)

Water Table Number

Water Table Number:
 Water Table Number:
 Water Table Number:

Processed Type:
 Processed Type:
 Processed Type:

[Cancel](#) [Refresh](#) [Download](#) [Back](#)



1.6.8 Re-Energisation

Re-Energisation - In Progress **Re-Energisation**

Participant ID: 12345678
Participant Name: Australian Energy Market Operator Limited

Header

Order ID: 12345678
Order ID (2): 12345678901234567890
Transmission Order ID: 12345678901234567890
Order Type: 1
Order Status: 1
Order Date: 12/01/2017 14:00:00
Order Type (2): 1
Order Status (2): 1
Order Date (2): 12/01/2017 14:00:00
Order Type (3): 1
Order Status (3): 1
Order Date (3): 12/01/2017 14:00:00

Order Details

Order ID: 12345678
Order Type: 1
Order Status: 1
Order Date: 12/01/2017 14:00:00
Order Type (2): 1
Order Status (2): 1
Order Date (2): 12/01/2017 14:00:00
Order Type (3): 1
Order Status (3): 1
Order Date (3): 12/01/2017 14:00:00

Customer Contact Details

Customer Name: 12345678
Customer Address: 123456789012345678901234567890
Customer Phone: 12345678901234567890
Customer Email: 123456789012345678901234567890
Customer Contact Name: 12345678
Customer Contact Address: 123456789012345678901234567890
Customer Contact Phone: 12345678901234567890
Customer Contact Email: 123456789012345678901234567890

Customer Contact Telephone Numbers

Phone: 12345678901234567890
Phone: 12345678901234567890
Phone: 12345678901234567890

Approved Details

Approved Reference: 123456789012345678901234567890
Approved Date (1) (MM/DD/YYYY): 12/01/2017
Approved Date (2) (MM/DD/YYYY): 12/01/2017

Order Details

Order ID: 12345678
Order Type: 1
Order Status: 1
Order Date: 12/01/2017 14:00:00
Order Type (2): 1
Order Status (2): 1
Order Date (2): 12/01/2017 14:00:00
Order Type (3): 1
Order Status (3): 1
Order Date (3): 12/01/2017 14:00:00

Order Certificate ID: 123456789012345678901234567890
Order Certificate Method: 1

Buttons: Create, Update, Cancel, Done



1.6.9 De-Energisation

Participant ID: 4689010
Participant Name: Australian Energy Market Operator Limited

Participant ID: 4689010
Participant Name: Australian Energy Market Operator Limited

Header
 Message ID (*): 4689010
 To (*): 4689010
 From (*): 4689010
 Message Date (*): 12 Jun 2017 10:11:51
 Priority (*): High

Service Order Grouped
 Transaction ID (*): 4689010
 Invoice Type (*):
 Message Date (*): 12 Jun 2017 10:11:51
 Priority (*): High
 Service Order Type: De-energisation
 Service Order Sub-Type: De-energisation

Service Order Details
 Service Order ID (*):
 Service Order Sub-Type (*):
 Service Order Status: De-energisation
 Service Order Sub-Type: De-energisation
 Service Order Status: De-energisation

Customer Contact Name
 Name Title:
 Given Name:
 Name Suffix:
 Family Name:
 Name Suffix:

Business Contact Name
 Name Title:
 Given Name:
 Name Suffix:
 Family Name:
 Name Suffix:

Customer Contact Telephone Numbers
 Name:
 Number:
 Service Type:
 Service Comment:

Appointment Details
 Appointment Reference:
 Preferred Date (dd-MMM-yyyy):
 Scheduled Date (*): (dd-MMM-yyyy):
 Preferred Time (hh:mm:ss):

Service Order Details
 Service Time (*):
 Customer Consultation Required (*):
 Special Instructions 1:
 Special Instructions 2:
 Special Instructions 3:
 Confirmed De-energisation (*):
 De-Energisation Reason (*):

Create Validate Download Reset



1.6.10 Special Read

Customer Reference: Special Read
Priority: Normal
Special Read ID: [Blank]
Participant ID: NEMMO

Participant Name: Australian Energy Market Operator Limited

Header

Order ID: [Blank]

Order ID (*): [Blank]

Message ID (*): [Blank]

Transaction Group (*): [Blank]

Special (*): [Blank]

Message Date (*): [Blank]

Priority (*): [Blank]

Transaction Date: [Blank]

AutoCancelOrder (*): [Blank]

WFO Checksum: [Blank]

Message ID (*): [Blank]

Priority (*): [Blank]

Transaction Date: [Blank]

AutoCancelOrder (*): [Blank]

WFO Checksum: [Blank]

Service Order Request

Transaction ID (*): [Blank]

Order Type (*): [Blank]

WFO (*): [Blank]

Service Order Type: Special Read

Service Order Sub Type: [Blank]

Service Order Details

Service Order ID (*): [Blank]

Service Order ID (*): [Blank]

Service Order ID (*): [Blank]

Service Order ID (*): [Blank]

Service Order ID (*): [Blank]

Customer Contact Details

Name Title: [Blank]

Name Surname: [Blank]

Name Type: [Blank]

Mobile: [Blank]

Business: [Blank]

Service Type: [Blank]

Service Comment: [Blank]

Customer Contact Telephone Numbers

Mobile: [Blank]

Business: [Blank]

Service Type: [Blank]

Service Comment: [Blank]

Appointment Details

Appointment Reference: [Blank]

Preferred Date (dd-MMM-yyyy): [Blank]

Scheduled Date (*): (dd-MMM-yyyy): [Blank]

Preferred Time (hh:mm:ss): [Blank]

Service Order Details

Service Time (*): [Blank]

Customer Consultation Required (*): [Blank]

Special Instructions 1: [Blank]

Special Instructions 2: [Blank]

Special Instructions 3: [Blank]

Create
Validate
Download
Reset



1.6.11 Metering Service Works - Install Meter

Order Transaction - Service Order Request Add And Edit

Participant ID: WEMRC3
Participant Name: Australian Energy Market Operator Limited

Header
 Order ID: 10000000
 Order ID (TS): 10000000
 Transaction Group (TG): 10000000000000000000
 Order ID (TS): 10000000000000000000
 Transaction Date: 14 Jun 2017 11:04:00
 Priority (TS): 10000000000000000000

Service Order Request
 Transaction ID (TS): 10000000000000000000
 Transaction Date: 14 Jun 2017 11:04:00
 Order Type (TS): 10000000000000000000
 Order ID (TS): 10000000000000000000

Service Order Type
 Service Order Type (TS): Metering Service Work
 Service Order Sub Type: 10000000000000000000
 Order Status: 10000000000000000000

Service Point
 Service Details (TS): 10000000000000000000
 Meter Description 1: 10000000000000000000
 Meter Description 2: 10000000000000000000
 Meter Description 3: 10000000000000000000

Customer Contact Name
 Name Title: 10000000000000000000
 Name Suffix: 10000000000000000000
 Family Name: 10000000000000000000
 Name Suffix: 10000000000000000000

Customer Contact Telephone Numbers
 Number: 10000000000000000000
 Number: 10000000000000000000
 Number: 10000000000000000000

Customer Contact Business Name
 Name Title: 10000000000000000000
 Name Suffix: 10000000000000000000
 Family Name: 10000000000000000000
 Name Suffix: 10000000000000000000

Customer Contact Telephone Numbers
 Number: 10000000000000000000
 Number: 10000000000000000000
 Number: 10000000000000000000

Apprentice Details
 Registration Reference: 10000000000000000000
 Registration Date (YYMMDD): 10000000000000000000
 Initialised Date (YYMMDD): 10000000000000000000
 Initialised Time (HHMMSS): 10000000000000000000

Service Order Details
 Service Type (TS): 10000000000000000000
 Customer Consultation Requested (TS): 10000000000000000000
 Special Instructions 1: 10000000000000000000
 Special Instructions 2: 10000000000000000000
 Special Instructions 3: 10000000000000000000
 Installation Type: 10000000000000000000
 Meter Model Code: 10000000000000000000
 Metering Frequency: 10000000000000000000
 ICF Peak Requirement 1: 10000000000000000000
 ICF Peak Requirement 2: 10000000000000000000
 ICF Peak Requirement 3: 10000000000000000000
 Metering Device: 10000000000000000000
 Meter Serial Number: 10000000000000000000
 Proposed Time: 10000000000000000000
 Meter Reference: 10000000000000000000
 Safety Certificate ID: 10000000000000000000

Building Service Required: 10000000000000000000
 Meter Model: 10000000000000000000
 Safety Certificate Method Name: 10000000000000000000

MCC Details
 MCC ID: 10000000000000000000
 MCC Registration Reference: 10000000000000000000
 MCC Name: 10000000000000000000
 Name Title: 10000000000000000000
 Name Suffix: 10000000000000000000
 Family Name: 10000000000000000000
 Name Suffix: 10000000000000000000

MCC Telephone Numbers
 Number: 10000000000000000000
 Number: 10000000000000000000
 Number: 10000000000000000000

Service Type: 10000000000000000000
 Service Location: 10000000000000000000
 Service Contact: 10000000000000000000

Buttons: Cancel, Update, Download, Save

Need to add more details for more complex requests such as metering requests with Program Load and Meter Serial Numbers



1.6.12 Metering Service Works - Move Meter

Header

Service Order ID: [Field]

Service Order Name: [Field]

Transaction Date: 14 Jun 2017 11:04:01

Priority: [Dropdown]

Service Order Details

Transaction Date: 14 Jun 2017 11:04:01

Service Order ID: [Field]

Service Order Name: [Field]

Transaction Date: 14 Jun 2017 11:04:01

Service Order Type: [Dropdown]

Service Order Sub-Type: [Dropdown]

Service Point

Service Point ID: [Field]

Service Point Name: [Field]

Service Point Description: [Field]

Supplying Contract Name

Contract Name: [Field]

Contract ID: [Field]

Supplying Contract Identification Number

Contract ID: [Field]

Supplying Contract Name

Contract Name: [Field]

Contract ID: [Field]

Customer Contract Name

Contract Name: [Field]

Contract ID: [Field]

Business Contract Name

Contract Name: [Field]

Contract ID: [Field]

Customer Contract Telephone Numbers

Contract Name: [Field]

Contract ID: [Field]

Appointments Details

Appointment Reference: [Field]

Appointment Date (UTC+10:00): [Field]

Appointment Date (UTC+10:00): [Field]

Service Order Details

Service Order ID: [Field]

Customer Contribution Received: [Field]

Special Instructions 1: [Field]

Special Instructions 2: [Field]

Special Instructions 3: [Field]

Meter Serial Number: [Field]

Meter Serial Number: [Field]

Proposed Year: [Field]

Proposed Year: [Field]

Proposed Year: [Field]

Form Reference: [Field]

Safety Certificate ID: [Field]

Working Service Required: [Field]

Form Number: [Field]

Safety Certificate Method Code: [Field]

Buttons: [Save] [Cancel] [Previous] [Next]

1.6.13 Metering Service Works - Remove Meter

Same changes as Metering Service Works - Move Meter above.



1.6.14 Metering Service Works - Exchange Meter

Form Transaction - Metering Service Works Exchange Meter | Action on Item ID | Participant ID: WEMRC3 | Participant Name: Australian Energy Market Operator Limited

Meter:
Meter ID: WEMRC0
Meter Type: [Dropdown]
Transmission Group ID: [Dropdown] | Proposed Date (Y): 6 Jan 2017 20:19:05
Transmission Group (T): [Dropdown] | Meter (T): [Dropdown]

Service Order Request:
Request ID: [Dropdown] | Transaction Date: 6 Jan 2017 20:19:05
Meter Type (T): [Dropdown] | [Buttons: New, Cancel, Update, Delete]

Service Order Type:
Service Order Type (T): [Dropdown] | Service Order Sub Type (T): [Dropdown] | [Buttons: New, Cancel, Update, Delete]

Customer Contract Name:
Contract Name: [Text Field] | Party Name: [Text Field] | Meter Suffix: [Text Field]

Customer Contract Telephone Numbers:
Number: [Text Field] | Number: [Text Field] | Number: [Text Field] | Service Type: [Dropdown] | Service Comment: [Text Field]

Customer Contract Details:
Contract Name: [Text Field] | Party Name: [Text Field] | Meter Suffix: [Text Field]

Appointments Details:
Appointment Reference: [Text Field] | Scheduled Date: [Date Picker] | Proposed Time (M:seconds): [Text Field]

Customer Contract Details:
Service Type: [Dropdown]
Contract Description Required: [Text Field]
General Description 1: [Text Field]
General Description 2: [Text Field]
General Description 3: [Text Field]
Meter Serial Number: [Text Field]
Meter Serial Number: [Text Field]
Supply Phase: [Dropdown]
Metering Required: [Dropdown]
MFR Prod. Requirement 1: [Text Field]
MFR Prod. Requirement 2: [Text Field]
MFR Prod. Requirement 3: [Text Field]
Meter Serial Code: [Text Field]
Proposed Start: [Text Field] | Party Number: [Text Field]
Safety Conditions Method Code: [Dropdown]

[Buttons: Save, Update, Cancel, Reset]



1.6.16 Metering Service Works - Meter Reconfiguration

Create Transaction - Service Order Request - Meter Reconfiguration

Create Transaction - 02 Metering Service Works - Meter Reconfiguration

Working Draft

Order Reconfiguration

Participant ID:
Participant Name: Australian Energy Market Operator Limited

Header

From (To):

To (To):

Message ID (To):

Transaction Date (To):

Message Date (To):

Message ID (To):

Message (To):

Service Order Request

Transaction ID (To):

Order Type (To):

Order (To):

Transaction Date:

Reference Order (To):

Order Status:

Service Order Type (To):

Service Order Sub-Type:

Service Order Details

Service Order ID (To):

Service Order ID (To):

Service Order ID (To):

Service Order ID (To):

Service Order ID (To):

Service Order ID (To):

Service Order ID (To):

Customer Contact Details

Name:

Name:

Name:

Name:

Name:

Name:

Name:

Customer Contact Telephone Numbers

Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Service Type: <input type="text" value="AEMO()"/>	Service Comment: <input type="text" value="AEMO()"/>
Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Service Type: <input type="text" value="AEMO()"/>	Service Comment: <input type="text" value="AEMO()"/>
Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Service Type: <input type="text" value="AEMO()"/>	Service Comment: <input type="text" value="AEMO()"/>

Customer Contact Email

Name:

Name:

Name:

Name:

Customer Contact Telephone Numbers

Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Service Type: <input type="text" value="AEMO()"/>	Service Comment: <input type="text" value="AEMO()"/>
Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Service Type: <input type="text" value="AEMO()"/>	Service Comment: <input type="text" value="AEMO()"/>
Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Number: <input type="text" value="AEMO()"/>	Service Type: <input type="text" value="AEMO()"/>	Service Comment: <input type="text" value="AEMO()"/>

Assessment Details

Assessment Reference:

Preferred Date (YYYYMMDD):

Assessment State (To):

Assessment Date (To):

Service Order Details

Service Order (To):

Customer Consultation Required (To):

Special Instructions 1 (To):

Special Instructions 2 (To):

Special Instructions 3 (To):

Order Status:

Proposed Start:

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1.6.17 Metering Service Works - Meter Investigation – All /Change Time Switch Settings and Reseal Device

1.6.17.1.1 **Metering Service Works Meter Investigation - All /Change Time Switch Settings and Reseal Device**

This screen is a view of Meter Investigation Screen

Participant ID: **NSP023**
Participant Name: **Australian Energy Market Operator Limited**

Search

From (*) [input field]
To (*) [input field]
Message ID (*) [input field] **508648752981412000**
Transmission Date (*) [input field] **2017**
Status (*) [input field] **OPEN**
Message Date (*) [input field] **10 Jun 2017 23:58:51**
Priority (*) [input field] **Priority**

Service Order Request

Transmission ID (*) [input field] **508648752981412000**
Transmission Date [input field] **10 Jun 2017 23:58:51**
Order Type (*) [input field]
Order ID (*) [input field]
Public Order Order ID (*) [input field] **Service Order ID (*)**
SNO Classification [input field]

Service Order Type

Service Order Type (*) [input field] **Repairing Safety Works**
Service Order Sub-Type (*) [input field]

Service Point

Address Details (*) [input field]
Line Number (*) [input field]
Service Order Classification Required (*) [input field]

Special Instructions 1: [input field]
Special Instructions 2: [input field]
Special Instructions 3: [input field]

Customer Contact Name

Name Title [input field]
Given Name [input field] Family Name [input field]
Name Type [input field] Name Suffix [input field]

Customer Contact Telephone Numbers

Number [input field] Service Type [input field] Service Comment [input field]
Number [input field] Service Type [input field] Service Comment [input field]
Number [input field] Service Type [input field] Service Comment [input field]

Customer Contact Email

Name Title [input field] **CONF**
Given Name [input field] Family Name [input field]
Name Type [input field] Name Suffix [input field]

Customer Contact Telephone Numbers

Number [input field] Service Type [input field] Service Comment [input field]
Number [input field] Service Type [input field] Service Comment [input field]
Number [input field] Service Type [input field] Service Comment [input field]

Appointment Details

Appointment Reference [input field] Scheduled Date (*) (24 HRS prev) [input field]
Initiated Date (24 HRS prev) [input field] Initiated Date (24 HRS prev) [input field]

Service Order Details

Service Type (*) [input field] **First Response** [input field]
Customer Classification Required (*) [input field] **Phone Number** [input field]
Special Instructions 1 (*) [input field] **Repairing Safety Works** [input field]
Special Instructions 2: [input field] **Repairing Safety Works** [input field]
Special Instructions 3: [input field] **Repairing Safety Works** [input field]

Refer Social Number [input field]
Proposed Priority [input field]

Create | Refresh | Cancel | Close

Note: This is a closed platform. The Service Order sub-type selected on the 'Create New Transaction'.



1.6.18 Miscellaneous Service Order

Participant ID: **MSATS01** Participant Name: Australian Energy Market Operator Limited

Fields:

Name (*)

Party ID (*)

Transaction Date (TZ)

Market ID (*)

Transaction Code

Transaction Date

Transaction Code Description

Transaction Code Sub-Description

Transaction Code Detail

Transaction Code Detail

Transaction Code Detail

Service Order Type

Service Order Type (*)

Service Order Type (TZ)

Service Order Type (TZ)

Service Order Type (TZ)

Service Order Type (TZ)

Transaction Code Description

Transaction Code Sub-Description

Transaction Code Detail

Transaction Code Detail

Transaction Code Detail

Fields & Control Items

Order Title:

Order Ref:

Order Type:

Fields & Control Items

Order Title:

Order Ref:

Order Type:

Fields & Control Items

Order Title:

Order Ref:

Order Type:

Fields & Control Items

Order Title:

Order Ref:

Order Type:

Fields & Control Items

Order Title:

Order Ref:

Order Type:

Fields & Control Items

Order Title:

Order Ref:

Order Type:

Appointment Details:

Appointment Reference:

Scheduled Date (*) (dd-MM-yyyy):

Preferred Date (dd-MM-yyyy):

Preferred Time (Minutes):

Service Order Details:

Service Time (*)

Customer Consultation Required (*)

Special Instructions 1:

Special Instructions 2:

Special Instructions 3:

Installation Type:

Supply Phase:

Water Install Code:

Metering Required:

Off Peak Requirement 1:

Off Peak Requirement 2:

Off Peak Requirement 3:

Maximum Demand:

NMI Status Code:

Proposed Tariff:

Form Reference:

Safety Certificate ID:

Meter Serial Number:

Average Daily Load:

Customer Type:

Switching Service Required:

Form Number:

Safety Certificate Method Desc:

REC Details:

REC ID:

REC Attendance Required:

REC Name:

Name Title:

Given Name:

Family Name:

Name Type:

Name Suffix:

Business Name:

REC Telephone Numbers:

Prefix: Number: Service Type: Service Comment:

Prefix: Number: Service Type: Service Comment:

Prefix: Number: Service Type: Service Comment:

Create | Validate | Download | Reset



1.6.19 Cancel Service Order

SO cancel 1/2

Header		SO cancel 1/2	
From (*)	NONRACI	Message Date (*)	3-Aug-2017 16:27:12
To (*)	<input type="text"/>	Priority (*)	Medium
Message ID (*)	B2BMSO1720833544000		
Transaction Group (*)	SUSD		
Market (*)	NSM		
Service Order Request			
Transaction ID (*)	B2BMSO1720833544000	Transaction Date (*)	3-Aug-2017 16:27:12
Action Type (*)	Cancel	Service Order ID (*)	<input type="text"/>
WSE	<input type="text"/>	WSE Checklist	<input type="checkbox"/>
Service Order Address			
<input checked="" type="radio"/> Structured Address			
Flat Or Unit Type:	<input type="text"/>	Flat Or Unit Number:	<input type="text"/>
Floor Or Level Type:	<input type="text"/>	Floor Or Level Number:	<input type="text"/>
Building Or Property Name 1:	<input type="text"/>		
Building Or Property Name 2:	<input type="text"/>		
Location Description:	<input type="text"/>		
House Number:	<input type="text"/>	House Number Suffix:	<input type="text"/>
Lot Number:	<input type="text"/>		
Street Name:	<input type="text"/>		
Street Type:	<input type="text"/>		
Street Suffix:	<input type="text"/>		
Postal Delivery Type:	<input type="text"/>	Postal Delivery Number Prefix:	<input type="text"/>
Postal Delivery Number Value:	<input type="text"/>	Postal Delivery Number Suffix:	<input type="text"/>
<input type="radio"/> Unstructured Address			
Unstructured Address 1:	<input type="text"/>		
Unstructured Address 2:	<input type="text"/>		
Unstructured Address 3:	<input type="text"/>		
Locality:	<input type="text"/>	State:	<input type="text"/>
Postcode:	<input type="text"/>		

SO cancel 2/2

Service Order Details	
Customer Consultation Required:	<input type="text"/>
Special Instructions 1:	<input type="text"/>
Special Instructions 2:	<input type="text"/>
Special Instructions 3:	<input type="text"/>

Creates Validate Download Reset



1.6.20 Service Order Response

The screenshot shows the 'Service Order Response' form in the MSATS web portal. The form is divided into several sections:

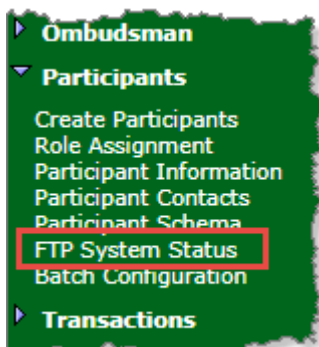
- Header:** Includes fields for 'Order ID', 'Participant ID', and 'Participant Name'.
- Service Order Response Details:** Contains fields for 'Transaction ID', 'Transaction Date', 'Order Type', 'Order Status', and 'Order Priority'.
- Structural Address:** Includes fields for 'Flat or Lane Type', 'Floor or Level Type', 'Building ID', 'Street Name', 'Street Type', 'Street Suffix', 'Postal Suburb Type', and 'Postal Suburb Number Suffix'.
- Service Provider-Suburb Relationship Details:** Includes fields for 'Service Provider', 'Suburb', and 'Relationship Type'.
- Service Provider-Suburb Hours Details:** Includes fields for 'Name', 'Start Date', 'End Date', 'Start Time', and 'End Time'.

Callouts provide specific instructions:

- Callout 1:** Points to the 'Order Status' field, stating: "The status is determined by the system based on the order type and the order status." (Note: The image text is partially obscured but the intent is clear from context).
- Callout 2:** Points to the 'Postal Code' field, stating: "The Postal Code entered for order is optional. If you have a postal code, it will be used to determine the order type." (Note: The image text is partially obscured but the intent is clear from context).

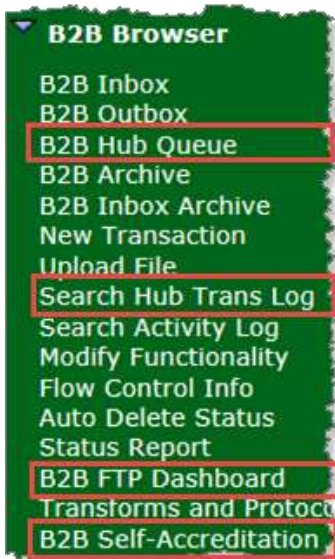
1.7 MSATS web portal menu

The MSATS menu has the following change:



Under the **Participants** menu, Participant System Status is renamed to **FTP System Status**. For interface details, see Participant System Status on page 47.

The B2B Browser menu has the following changes:



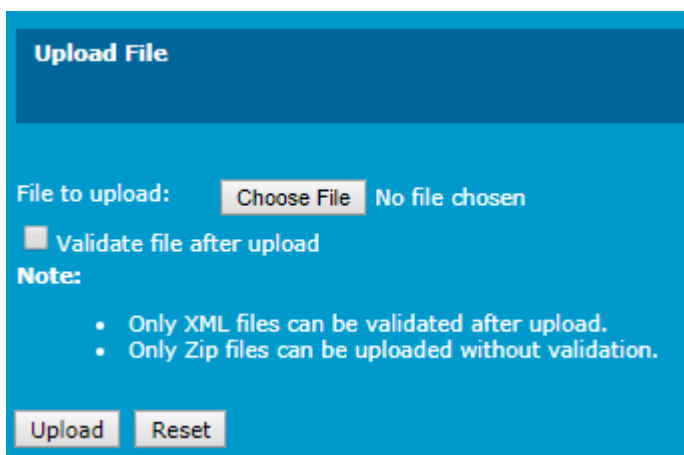
- **B2B Hub Queue** is a new menu item. For interface details, see B2B Hub Queue on page 47.
- **Search Hub Trans Log** is a new menu item. For interface details, see Search Hub Transaction Log on page 47.
- **B2B Hub Dashboard** is renamed to **B2B FTP Dashboard**. For interface details, see B2B Hub Dashboard on page 53.
- **B2B Self-Accreditation** is a new menu item. For interface details, see B2B e-Hub Self-Accreditation on page 61.

1.8 B2B Upload File

The current B2B Upload File interface changes to include integration of retail B2B transactions with the new *B2B e-Hub*; non-retail B2B transactions are unaffected.

Participants acting as Initiators can upload zip and XML Messages for delivery to recipients based on their Transaction Group Protocol Preference, where:

- **FTP** indicates the Initiator elects to send all messages of the Transaction Group using the FTP Hokey-pokey Protocol so the message is delivered to the Recipient's B2B Inbox.
- **API** indicates the Initiator elects to send all messages of the Transaction Group using the API Web Services Protocol so the message is delivered to the *B2B e-Hub* API Gateway.



The image shows a screenshot of the "Upload File" interface. The title "Upload File" is displayed in a dark blue header. Below the header, there is a section for "File to upload:" with a "Choose File" button and the text "No file chosen". There is a checkbox labeled "Validate file after upload" which is currently unchecked. Below this is a "Note:" section with two bullet points: "Only XML files can be validated after upload." and "Only Zip files can be uploaded without validation." At the bottom of the interface, there are two buttons: "Upload" and "Reset".



1.9 Search Hub Transaction Log

This new interface searches the log in the *B2B e-Hub*.

The existing Filename field has changed to **Message Context ID / Filename**. Searches using this field no longer support the zip file extension but still supports SQL patterns. For help, see SQL patterns on page 63.

1.1.2 User rights access

The entity required for access is **B2B Hub Transaction Log**.

For help maintaining user rights, see [Guide to User Rights Management](#).

1.10 Participant System Status

The Participant System Status interface, under the **Participants** menu changes name to **Participant FTP System Status**, supporting the FTP Hokey-pokey Protocol.

Participant FTP System Status			Participant ID:	NEMMCO					
			Participant Name:	Australian Energy Market Operator Limited					
Participant FTP System Status									
System	Mode Type	Box	Status	Description	Transaction Groups	Reason	Resolution	Start Time	Heartbeat Time
▼	▼	▼	▼						



1.10.1 User rights access

The existing Participant System Status entity: **B2B Participant Status Report** remains the same.

1.11 B2B Hub Queue

This is a new interface and functionality reflecting queued messages in the *B2B e-Hub* API Gateway. This interface provides participants selecting to use web services the ability to manage and acknowledge B2B Messages. The functionality is similar to the existing B2B Outbox interface.

1. **Messages and Errors:** Reports the count of messages in the hub and the count of messages matching the search criteria, after each search.
 - White text = normal messages.
 - Yellow text = error messages.
2. **Search criteria:** For help, see SQL patterns on page 63.
3. **B2B Hub Queue Contents**



B2B Hub Queue

Participant ID: NEMMCO
Participant Name: Australian Energy Market Operator Limited

6 Message(s) Match Search Criteria 1
17 Message(s) Total Queued

Search Criteria 2

Message Context ID / File Name
 Message Context ID / File Name (* as wildcard):

Assisted Filename

Transaction Groups:

SITE
SORD
MTRD
CUST
OWNP

Message Type:

Priority:

From Participant ID:

Participant Message ID:

Received From Date (dd-mmm-yyyy):

Received To Date (dd-mmm-yyyy):

Received From Time (hh:mm:ss):

Received To Time (hh:mm:ss):

If a button or link is inactive, you do not have permission to perform the action

B2B Hub Queue Contents 3

	Context ID / File Name	Message ID	Message Type	Received Date	Priority	From	Action
<input type="checkbox"/>	file 1	B2B-1	Transaction Message	recievedDate	Low	CITIPP	<ul style="list-style-type: none"> <input type="checkbox"/> Download <input type="checkbox"/> Reject
<input type="checkbox"/>	file 2	B2B-2	Message Acknowledgement	recievedDate	Medium	CITIPP	<ul style="list-style-type: none"> <input type="checkbox"/> Download <input type="checkbox"/> Delete
<input type="checkbox"/>	file 3	B2B-3	Transaction Acknowledgement	recievedDate	High	CITIPP	<ul style="list-style-type: none"> <input type="checkbox"/> Download <input type="checkbox"/> Reject

View file

Sort by column headings

View, reject, or delete message



1.11.1 B2B View Message Acknowledgement

View Message Acknowledgement	Participant ID:	NEMMCO		
	Participant Name:	Australian Energy Market Operator Limited		

Message: outbox\sordmnemmcob2bb1418001321226000.ack

Header

From: NEMMCO
 To: NEMMCO
 Message ID: B2BM1491872667737000 Message Date: 11-Apr-2017 11:04:27
 Transaction Group: SORD Priority: Medium
 Market: NEM

Message Acknowledgement

Initiating Message ID: B2BM1418001201179000 Status: Accept
 Receipt ID: B2BR1491872667737001 Receipt Date: 2017-04-11T11:04:27.0+10:00

Duplicate:

Transaction Acknowledgements

Initiating Transaction ID	Receipt ID	Receipt Date	Status	Action

[Download](#)

1.11.2 B2B View Message

View Message	Participant ID:	NEMMCO		
	Participant Name:	Australian Energy Market Operator Limited		

Message: outbox\sordmnemmcob2bb1418001321226000.zip

Header

From: NEMMCO
 To: NEMMCO
 Message ID: B2BM1418001201179000 Message Date: 8-Dec-2014 11:13:21
 Transaction Group: SORD Priority: Medium
 Market: NEM

Transactions

Transaction ID	Transaction Type	NMI	Initiating Transaction ID	Action
B2BT1418001201179001	Allocate NMI			

[Download](#)



1.11.3 B2B Delete File



View Message Acknowledgement

Message: sordl_ [redacted] _b1501982092628000

Header

From: [redacted]
To: [redacted]
Message ID: B2B-06081711147
Transaction Group: SORD
Market: NEM

Message Acknowledgement

Initiating Message ID: B2BM1501981679
Receipt ID: 56822558-a31f-46
Duplicate:

Transaction Acknowledgements

Initiating Transaction ID

Delete Download



1.11.4 B2B Create Message Acknowledgement

Create Message Acknowledgement		Participant ID:	NEMMCO
		Participant Name:	Australian Energy Market Operator Limited
Message To Acknowledge: sordmnmecob2bb1418001321226000.zip			
Header			
From (*):	NEMMCO		
To (*):	NEMMCO		
Message ID (*):	B2BM1493860326239000	Message Date (*):	4-May-2017 11:12:06
Transaction Group (*):	SORD	Priority (*):	Medium
Market (*):	NEM		
Acknowledgement			
Initiating Message ID (*):	B2BM1486507410936000		
Receipt ID:	B2BR1493860326255000	Receipt Date (*):	4-May-2017 11:12:06
Status (*):	<input type="text"/>	Duplicate:	<input type="text"/>
Event			
Class:	<input type="text"/>		
Code/Description/Severity (*):	<input type="text"/>		
Key Info:	<input type="text"/>		
Context:	<input type="text"/>		
Explanation:	<input type="text"/>		
<input type="button" value="Create"/>		<input type="button" value="Cancel"/>	

1.11.5 B2B Create Message Acknowledgements – Accept

Create Message Acknowledgements - Accept		Participant ID:	NEMMCO
		Participant Name:	Australian Energy Market Operator Limited
Message To Acknowledge	Message ID (*)	Receipt ID (*)	Status (*) Action
sordmnmecob2bb1418001321226000.zip	B2BM1493946090463000	B2BR1493946090463001	Accept • Download Initiating
<input type="button" value="Create"/>		<input type="button" value="Cancel"/>	

1.11.6 B2B Create Message Acknowledgement Confirmation

The create status of the acknowledgements are as follows:

sordmnmecob2bb1418001321226000.zip	Success
------------------------------------	---------

Return to the "B2B Hub Queue" screen.



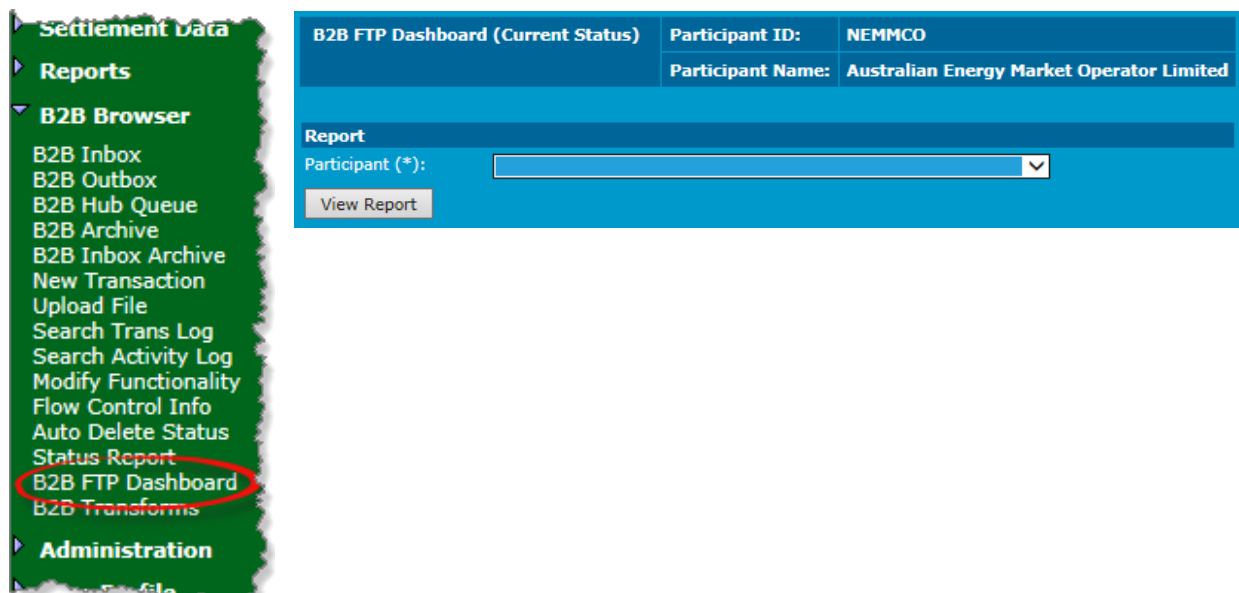
1.11.7 User rights access

Participant administrators grant delete, create, update, and read rights to their participant users to use the B2B Hub Queue entity.

For help maintaining user rights, see [Guide to User Rights Management.Participant System Status](#)

1.12 B2B Hub Dashboard

The B2B Hub Dashboard interface, under the **B2B Browser** menu changes name to **B2B FTP Dashboard**, supporting the FTP Hokey-pokey Protocol.



1.12.1 User rights access

The existing B2B Hub Dashboard interactive entity is renamed to **B2B FTP Dashboard**. AEMO automatically migrates participants currently having access rights to the new entity name. No action is required from participants.

For help maintaining user rights, see [Guide to User Rights Management](#).



1.13 B2B Toggle Modify Functionality

The Modify Functionality interface, under the **B2B Browser** menu has an additional checkbox to support the B2B Hub Queue, **Delete Hub Queue Message Acknowledgement**.

When Participant Administrators select **Create Response Message Acknowledgement**, permission is granted to participant users to delete message acknowledgements and a **Delete** button is visible see B2B Delete File on page 51.

Toggle Modify Functionality	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Functionality	Toggle On
Delete File	<input checked="" type="checkbox"/>
Upload File (No Validation)	<input checked="" type="checkbox"/>
Create Response Message Acknowledgement	<input checked="" type="checkbox"/>
Auto Delete From Inbox	<input checked="" type="checkbox"/>
Create New Transaction	<input checked="" type="checkbox"/>
Create Response Transaction	<input checked="" type="checkbox"/>
Create Response Transaction Acknowledgement	<input checked="" type="checkbox"/>
Upload & Validate Transaction	<input checked="" type="checkbox"/>
Delete Hub Queue Message Acknowledgement	<input type="checkbox"/>

Update Cancel

1.13.1 User rights access

The entity required for access for participant administrators is **B2B Toggle Modify Functionality**.

1.14 B2B Transforms

To support interoperability, the existing B2B Transforms menu and interface name changes to **B2B Transforms and Protocol**. This interface allows participants to transition schemas and select FTP or API protocols.

Participants can set different protocols for different Transaction Groups but the protocol must be the same within a Transaction Group. For example, for a SORD transaction you cannot send in FTP and receive in API.



B2B Transforms and Protocol

Participant ID: NEMMCO

Participant Name: Australian Energy Market Operator Limited

You have 0 B2B messages parked out of the allowed 480. You have -4 minutes to complete your change.

B2B transaction group	Receiving schema version	Change to version	Change to Protocol	Outbox		Hub Queue		Parked	
				Messages	ACKS	Messages	ACKS	Messages	ACKS
CUST	r32	r32	FTP	17	3	0	0	0	0
MTRD	r32	r32	FTP	0	0	0	0	0	0
OWNP	r32	r32	FTP	6	0	0	0	0	0
SITE	r32	r32	FTP	36	6	0	0	0	0
SORD	r32	r32	FTP	0	1	0	0	0	0

Start change
Cancel change
Refresh
Complete change

Receiving schema version	Transforms applied
r25	r32 to r25
r32	r25 to r32

1.14.1 Stopped interface

B2B Transforms and Protocol

Participant ID: NEMMCO

Participant Name: Australian Energy Market Operator Limited

You are stopped for B2B messages.
Please acknowledge your B2B messages and then click refresh to complete your schema version change.

Refresh

1.14.2 Already Started/Parked interface

: The 'Start Change' process is already in progress.

You have 0 B2B messages parked out of the allowed 480. You have 29 minutes to complete your change.

B2B transaction group	Receiving schema version	Change to version	Change to Protocol	Outbox		Hub Queue		Parked	
				Messages	ACKS	Messages	ACKS	Messages	ACKS
CUST	r32	r32	FTP	17	3	0	0	0	0
MTRD	r32	r32	FTP	0	0	0	0	0	0
OWNP	r32	r32	FTP	6	0	0	0	0	0
SITE	r32	r32	FTP	36	6	0	0	0	0
SORD	r32	r32	FTP	0	1	0	0	0	0

Start change
Cancel change
Refresh
Complete change

Receiving schema version	Transforms applied
r25	r32 to r25
r32	r25 to r32



1.14.3 Not started/parked interface

: The parkbox has not been created. 'Start Change' must be requested first.

You have 0 B2B messages parked out of the allowed 480. You have 30 minutes to complete your change.

B2B transaction group	Receiving schema version	Change to version	Change to Protocol	Outbox		Hub Queue		Parked	
				Messages	ACKS	Messages	ACKS	Messages	ACKS
CUST	r32	r32	FTP	17	3	0	0	0	0
MTRD	r32	r25	FTP	0	0	0	0	0	0
OWNP	r32	r32	FTP	6	0	0	0	0	0
SITE	r32	r32	FTP	36	6	0	0	0	0
SORD	r32	r32	FTP	0	1	0	0	0	0

Start change Cancel change Refresh Complete change

Receiving schema version	Transforms applied
r25	r32 to r25
r32	r25 to r32

1.14.4 System error interface

B2B Transforms and Protocol	Participant ID: NEMMCO
	Participant Name: Australian Energy Market Operator Limited

Unexpected error has occurred. Please try again. If the error persists please contact AEMO support hub.

Refresh

1.14.5 No Change interface

: Neither schema version nor protocol is changed for any transaction group

You have 0 B2B messages parked out of the allowed 480. You have 27 minutes to complete your change.

B2B transaction group	Receiving schema version	Change to version	Change to Protocol	Outbox		Hub Queue		Parked	
				Messages	ACKS	Messages	ACKS	Messages	ACKS
CUST	r32	r32	FTP	17	3	0	0	0	0
MTRD	r32	r32	FTP	0	0	0	0	0	0
OWNP	r32	r32	FTP	6	0	0	0	0	0
SITE	r32	r32	FTP	36	6	0	0	0	0
SORD	r32	r32	FTP	0	1	0	0	0	0

Start change Cancel change Refresh Complete change

Receiving schema version	Transforms applied
r25	r32 to r25
r32	r25 to r32

1.14.6 User rights access

The existing B2B Transforms interactive entity is renamed **B2B Transforms and Protocols**.



AEMO automatically migrates participants currently having access rights to the new entity name. No action is required from participants.

For help maintaining user rights, see [Guide to User Rights Management](#).



1.15 B2B Responder

1.15.1 Create transactions

The **B2B Responder > Create Transactions** is modified to:

- Support the new Notified Party transaction.
- Support the new B2B transaction types and sub types.
- Support B2B transactions created in the new aseXML Schema version r36.
- Allow a single listing of all B2B transactions available to all role types.
- Remove the **Transaction Group** section.
- Remove the initial **Please select a Participant Role** interface.



Create Standard Transactions

Messaging Transactions

- Multiple Transactions
- Duplicate Messages
- Duplicate Transactions

SORD

- Service Order Response
- De-energisation > Recipient Discretion
- Metering Service Works > Exchange Meter
- Metering Service Works > Install Meter
- Metering Service Works > Meter Reconfiguration
- Metering Service Works > Remove Meter
- Miscellaneous Services
- Re-energisation > After Disconnect for Non-payment
- Re-energisation > Recipient Discretion
- Special Read > Check Read
- Supply Service Works > Allocate NMI
- Supply Service Works > Establish Permanent
- Supply Service Works > Supply Abolishment

MTRD

- Meter Data Notification
- Provide Meter Data
- Verify Meter Data

CUST

- Customer Details Notification
- Customer Details Request

SITE

- Site Access Notification
- Site Access Request

OWNX

- Meter Fault and Issue Notification
- Notice of Metering Works
- Planned Interruption Notification

NPNX

- Notified Party > SO Requested (Re-energisation > After Disconnect for Non-payment)
- Notified Party > Accepted by Notified Party (Re-energisation > After Disconnect for Non-payment)
- Notified Party > Rejection by Notified Party (Re-energisation > After Disconnect for Non-payment)

Continue

Reset

1.15.2 Search transactions

The B2B Responder > Search Transactions is modified to:

- Display new transaction groups.
- Display new and modified transaction types.

Search Transactions	
Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Ltd

Set Search Criteria

From Date (*) (dd-mmm-yyyy):

To Date (*) (dd-mmm-yyyy):

Message Type (*):

Transaction Group:

Transaction Type:

Transaction Status:

Responder (*):

Participant (*):

Message ID:

Transaction ID:

Initiating Message ID:

Initiating Transaction ID:

Sort By:

1.15.3 Paste transactions

Participants can submit aseXML schema r36 messages using the Paste Transactions interface in the MSATS web portal B2B Responder.

Currently, participant cannot submit aseXML schema r36 messages using the B2B Responder > Create Transactions interface.

1.15.4 User rights access

The entities required for access are:

- **B2BR Create Transactions (new)**

This is a new entity replacing B2BR Create DIST Transactions, B2BR Create MDP Transactions, B2BR Create Retail Transactions.



- B2BR Paste Transactions
- B2BR Search All Participants Transactions
- B2BR Search Transactions

1.16 B2B e-Hub Self-Accreditation

Accreditation ensures participants' processes and IT systems are ready to interact with AEMO's systems safely and securely, delivering data in the appropriate format in accordance with the B2B Procedures.

Accreditation does not include requirements related to the quality of data in the transactions or any back office processes.

Once accredited, participants can use the e-Hub to send and receive the following communications to other e-Hub participants:

- Documents conforming to the current aseXML schema.
- CSV data (where applicable).

Interface example

B2B Self-Accreditation

Participant ID: [PARTICIPANTID]
Participant Name: [PARTICIPANT NAME]

Search For Test Transactions

Role (*): **Note:** Where Participants undertake multiple roles in the market separate applications are required.

From Date (dd-MM-yyyy) (*):

To Date (dd-MM-yyyy) (*):

Stage 1 - Messaging

Applicants are required to demonstrate to AEMO that their IT systems can fulfil the messaging requirements for their chosen Market Protocol(s).

Protocol	API Name	Resource	Message Direction	Test Outcome
API	S2BMessagingAsync	/messages	Participant to e-Hub	Pass
API	S2BMessagingAsync	/messageAcknowledgments	Participant to e-Hub	Pass
API	S2BMessagingAsync	/messages	e-Hub to Participant	Pass
API	S2BMessagingAsync	/messageAcknowledgments	e-Hub to Participant	Pass
API	S2BMessagingPull	/messages	Participant to e-Hub	No Match Found
API	S2BMessagingPull	/messageAcknowledgments	e-Hub to Participant	No Match Found
FTP	B2B		Send .zip	No Match Found
FTP			Receive .zip	No Match Found

Stage 2 Transactions

Applicants are required to demonstrate to AEMO that their IT systems can produce and send transactions that can be accepted by other participants.

Transaction Group	Transaction Type	Service Order Type	Service Order Sub Type	Message Direction	Test Outcome	Exemption Reason
SORD	ServiceOrderResponse			Participant to e-Hub	Pass	
SORD	ServiceOrderResponse			e-Hub to Participant	No Match Found	Where customer declined text headers
SORD	ServiceOrderRequest	Supply Service Works	Supply Abolishment	Participant to e-Hub	Pass	
SORD	ServiceOrderRequest	Supply Service Works	Establish Permanent	Participant to e-Hub	Pass	

Results to submit to AEMO:

Stage 1 Messaging - API (Gateway and Web Service)

Stage 1 Messaging - FTP

Stage 2 Transactions for [RDLE] market role

1.16.1 User rights access

The entity required for access is **B2B e-HUB Self-Accreditation**.



For more details about accreditation, see Guide to B2B e-Hub Self-Accreditation attached to this document.

1.17 MSATS B2B Batch Handlers

For interoperability, the current MSATS B2B Batch Handlers change to interface with the e-Hub API Gateway, ensuring back-end message exchange transparency for participants.

The MSATS B2B Batch Handlers address the following B2B retail transaction groups: MTRD, MRSR, SORD, CUST, SITE, OWNP, OWNX, NPNX, and PTPE.

Support is also added for the aseXML B2B schema r36.



The MSATS B2B Batch Handlers are still responsible for the following processing and validations:

- Check XML file size is less than 1 MB.
- Check schema is valid.
- Extract schema version.
- Extract header information.
- Construct ACK based on the header information.

SMP is now responsible for the following batch handler processes:

- The exchange of messages and files.
- The sending of alerts.
- The archiving of zip files.
- The validation of the zip file and the message inside.
- Logging the message and transaction information.
- The evaluation of the parkbox cancellation (times and file count).
- The transformation of messages in the cancel or transform parkbox.
- The implementation of the Notified Party logic (new functionality).
- Validation of the ACK file.
- Delivery of the ACK file to the destination.
- Logging the ACK information.

1.18 SQL patterns

The supported SQL patterns change to the following:

Wildcard Pattern	Description
[Blank]	A blank field acts as a wildcard.
%	Matches any word, for example: Entering % for message ID matches any message ID.
xxxx%	A type of substring match that matches the starting value and any text after that value. For example: Entering B2B% for message ID matches all messages with the message ID starting with the word B2B.



Wildcard Pattern	Description
%xxxx%	Another type of substring match that fetches all text matching the value in the middle of the %. For example: Entering %BB% for message ID matches any message ID containing the word BB in the middle.
%xxxx	Matches text that has the value after the %. For example: Entering %BB for the message ID matches any message ID ending with the word BB.



2 BASELINE ASSUMPTIONS

AEMO works to the assumption that participants' systems are compliant with the minimum supported configuration of the following.

AEMO advises participants using other standards critical to their business to participate in the pre-production rollout and testing period.

2.1 Software

The current versions of MSATS software are:

Software	Version	Release
MSATS	3.0	46.89
Participant Batcher	2.10	46.89 changes for this release
Validation Module	1.0.26	46.89 changes for this release
Web Services	1.04	46.88
Java	8	The software is supplied with source code so participants can recompile with any Java version.
Windows service	64 bit JRE	32 bit JRE still supported

You can find MSATS software and guides on AEMO's website>Retail and metering>Market Settlement and Transfer Solutions.

2.2 aseXML schemas

2.2.1 Supported aseXML versions and enumerations

The supported aseXML versions and enumerations for MSATS release 46.89 are:

Participant Schema	Latest	Current	Superseded	Release	Enumerations
B2M	r35	r35	r31	46.88	7.0



Participant Schema	Latest	Current	Superseded	Release	Enumerations
B2B	r36	r36	n/a	46.89	8.0

The aseXML schema changes explained in this technical specification only apply to the B2B schema.

2.2.2 What happens during a B2B schema change?

For this Release, AEMO automatically upgrades B2B participants to the current B2B schema r36. There is no action required from participants and no transforms apply for this Release.

To check your nominated aseXML version for receiving B2B transactions, see:

- B2B schema: B2B Browser > B2B Transforms.

To obtain schemas, guidelines, and whitepapers, see aseXML Standards on AEMO’s website>IT Systems.

2.3 B2B transforms

Supported	Not supported	Release
r36 only	B2B transforms from r25 to r32. B2B transforms from r32 to r36.	46.89 Changes for this Release

No transforms apply for this Release. AEMO will pass through B2B transactions submitted in r36 or earlier without transform. AEMO automatically upgrades participants currently receiving B2B transactions in the existing superseded or current versions of the aseXML schema, r32 or r25.

To learn more about B2B Transforms, see [Guide to MSATS B2B](#).



2.4 Web Services schemas

The aseXML schema versions change for web services for the B2M schema r35:

Web service	Current	Superseded	Release
C4 – NMI Master Report	r35	r31	46.88
MSATS Limits	r35	r31	46.88
NMI Discovery – type 1	r35	r31	46.88
NMI Detail	r35	r31	46.88
NMI Discovery – type 3	r35	r31	46.88
Participant System Status	r35	r32	46.88

2.5 Procedures

AEMO consultations are key reference documents and take precedence over this document. For open consultations and recently closed consultations, see Stakeholder Consultation on AEMO's website.

Name	Version	Effective/indicative date	Changes in this Release	AEMO website
B2B Procedures	3.0 In consultation	1 December 2017	Changes for 46.89	Stakeholder Consultation
CATS & WIGS Procedures	4.2	1 December 2017	Changes for 46.88	Stakeholder Consultation
MDM Procedures	3.3	1 December 2017	Changes for 46.88	Stakeholder Consultation
NEM ROLR Procedures	1.4	1 December 2017	Changes for 46.88	Stakeholder Consultation



3 IMPLEMENTATION

3.1 Approval or agreement to change

AEMO seeks approval to proceed from all participant change controllers. For details, see MSATS 46.89 Release Schedule – December 2017.

3.2 Transitioning

There are no transforms available for this Release. AEMO automatically transitions all B2B participants to the current B2B aseXML schema r36.

3.3 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- If required, schedule staff and resources to upgrade their market systems for this Release.

3.4 Risks

There is moderate risk with this change as all retail B2B transactions are changed.

There is a 1 December 2017 business obligation for this Release so the risk is with the ability of participants' IT staff to make their required IT system changes by the implementation dates.

3.5 Upgrade options

Because there is a 1 December 2017 business obligation for this Release, there are no upgrade options. The key is upgrading to the aseXML B2B schema r36.

3.5.1 What happens if I do not upgrade?

For impacts to participants not upgrading to the aseXML schema r36, see Impacts of not upgrading to B2B aseXML schema r36 on page 5.



4 RELATED RESOURCES

You can find the following resources on AEMO's website:

Name	Detail
aseXML Standards	aseXML schemas, guidelines, and whitepapers.
B2B Framework rule changes	Information on the AEMC website detailing the changes to the B2B framework.
B2B Mapping to aseXML	Maps the business documents, business signals, and business items to their implementations.
Guide to B2B E-Hub Self-Accreditation	Explains how to obtain accreditation to become a <i>B2B e-Hub Participant</i> .
Guide to MSATS B2B	Information about B2B Transforms and the B2B functions available in MSATS.
Guide to Transition of aseXML	Provides information for participants transitioning to another aseXML schema version.
MSATS 46.88 Release Technical Specification – December 2017	Information about the MSATS Release 46.88 EN/MC that includes the new B2M schema r35 and the CATS and WIGS Procedures v4.2.
Power of Choice	Details about the Power of Choice implementation program.
Power of Choice – B2B Procedure Changes	Details about the changes to B2B procedures for Power of Choice.
Schema Release Notes r36	Full details about the changes in the B2B aseXML schema r36.
Shared Market Protocol Technical Guide	Provides participants with the technical specifications for the delivery of B2B Transactions to assist participants with developing their own systems to utilise the <i>B2B e-Hub</i> API Gateway.
B2B Validation Module software and guide	AEMO provides the Validation Module software to participants so they can do on-site transaction validations.



5 GLOSSARY

For easy reading, this technical specification is written in plain language. If there is a discrepancy between information or a term in this document, the Rules and procedures take precedence.

Abbreviations

Abbreviation	Explanation
AEMC	Australian Energy Market Commission
B2B	Business-to-business. A Generic term used to refer to defined business-to-business interactions between participants. It excludes interactions between a participant and AEMO's market systems such as MSATS.
B2M	Business-to-market; Interactions between a participant and AEMO's market systems such as MSATS.
CUST	The Customer transaction group
CSDN	B2B Procedure: Customer Site Details Notification Process.
FRC	Full Retail Contestability
FTP	File Transfer Protocol
MDP	B2B Procedure: Meter Data Process.
MSATS	Market Settlement and Transfer Solution.
MTRD	The Meter Data transaction group
OWNP	The One-Way Notification Process transaction group
SITE	The Site Access transaction group
SMP	Shared Market Protocol
SORD	The Service Order transaction group
SSL	Secure Sockets Layer



Special terms

Term	Definition
API Web Services Protocol	The new web services provided to support B2B messaging, offering an alternative to the current FTP interface.
aseXML	A standard developed by Australian energy industries to facilitate the exchange of information between energy industry participants. A set of schemas and usage guidelines defining how data is exchanged under FRC in the gas and electricity industries.
aseXML B2B Schema	Specification used to describe the structure of an aseXML Message.
B2B Acceptance	When used in the context of a B2B Transaction, indicates the B2B Recipient of the B2B Transaction has accepted it using a BusinessAcceptance/Rejection with an ase:Status of Accept .
B2B Acknowledgment	A generic term referring to an aseXML-format Message or Transaction Acknowledgement, specifically within the context of a B2B interaction. A B2B Acknowledgement is the physical interpretation of a Business Signal. Often referred to as: <ul style="list-style-type: none">▪ Positive: Indicating correctness of the associated file.▪ Negative: Indicating an error with the associated file.
B2B Browser	The existing MSATS B2B Browser that is now part of the <i>B2B e-Hub</i> .
B2B Inbox	The file folder where participants publish B2B messages and acknowledgements for other participants.
B2B Initiator	Participant initiating a B2B Message.
B2B Message	A B2B Transaction or Acknowledgement sent between a B2B Initiator and a B2B Recipient.
B2B Message Acknowledgement	An aseXML realisation of a business receipt.
B2B Outbox	The file folder where FTP Hokey-pokey Protocol participants receive B2B messages and acknowledgements from other participants.
B2B Recipient	Participant receiving a B2B Transaction (sent by a B2B Initiator).
B2B Rejection	When used in the context of a B2B Transaction, indicates the B2B Recipient of the B2B Transaction has rejected it using a BusinessAcceptance/Rejection with an ase:Status of Reject .



Term	Definition
B2B Transaction	Facilitates the process of consumer connection point transfers and the management of <i>NMI Standing Data</i> .
B2B Transaction Acknowledgement	An aseXML realisation of a Business Acceptance/Rejection
B2B Transaction Group	The Transaction Group field in an aseXML Message.
B2B Transaction Group Protocol Preference	The preference a participant sets at a B2B Transaction Group level for their sending and receiving protocol: FTP or API. Participants can set different protocols for different Transaction Groups but the protocol must be the same within a Transaction Group. For example, for a SORD transaction you cannot send in FTP and receive in API.
B2B Transforms	Participants can nominate the B2B aseXML schema release they want to use for receiving B2B transactions and acknowledgements.
C1 report	Data Replication Resynchronisation Report.
C7 report	New Participant Data Access.
Data Stream	A stream of metering data associated with a connection point, represented by a NMI. A NMI can have multiple Data Streams (e.g. from one or more meters, or from one or more channels or registers that comprise a single meter). Each Data Stream is identified by a unique suffix associated with the NMI.
<i>B2B e-Hub</i>	The existing MSATS B2B Browser, MSATS B2B Batch Handlers and the new e-Hub API Platform.
<i>B2B e-Hub</i> API Gateway	The new interface for participants to interact with B2B using web services.
<i>B2B e-Hub</i> API Portal	The new web interface for participants to view API details and manage API keys.
Enumerations	The Enumerations.xsd file containing acceptable aseXML attributes.
FTP Hokey-pokey Protocol	The existing B2B file FTP exchange protocol.
Interoperability	Refers to the different protocols participants can use to exchange B2B data, irrespective of the sender or receiver's B2B Transaction Group Protocol Preference: FTP or API.



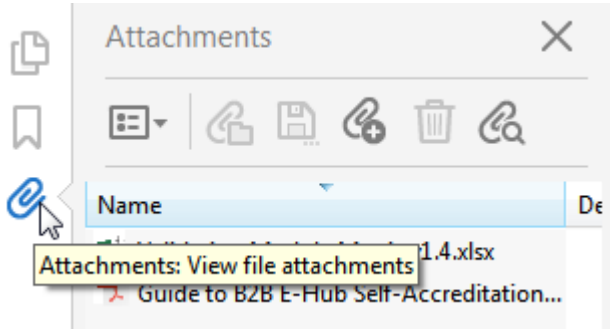
Term	Definition
Meter Status Code	A single character code, indicating the status of the meter.
Network Tariff	The rate an NSP charges a <i>retailer</i> for the use of its <i>network</i> .
NMI Discovery	NMI Discovery is an MSATS function allowing participants to discover a customer's NMI and checksum or discover sufficient standing data about the NMI.
<i>NMI Standing Data</i>	Connection point data
NMI Status Code	A code identifying the status of a NMI, e.g. active or inactive.
Participant ID	Registered participant identifier
PMS Reports	Performance Monitoring System traffic light reports.
Read Type Code	A code required on change request records for change of retailer transactions, indicating whether the transfer is to occur on the NSRD or some other date (e.g. a previous read date).
Register Status Code	A single character code indicating if the register is active.
Stopbox	The file folder where participants receive stop and warning files.
Stop File	A file generated by the <i>B2B e-Hub</i> when a participant's FTP Outbox of queued messages exceeds the High Water Mark.
Stopped	Describes the state of a participant's Outbox if a Stop File is in place.
Validation Module	Software AEMO provides to participants so they can do on-site transaction validations.
Water Mark – High	The upper limit of the message queue scale. When a participant's message queue reaches a High Water Mark, a Stop File is generated.
Water Mark – Low	The lower limit of the message queue scale. If a Stop file is present, when a participant's message queue reaches a Low Water Mark the Stop File is removed.
Water Mark – Warn	A warning message advising the queue is reaching an upper limit.



Appendix A B2B Validation Module

A.1. Service Order transaction validations

See the spreadsheet attached to this document:





Appendix B Guide to B2B e-Hub Self Accreditation

See the draft guide attached to this document:

