

# B2B Mapping to aseXML

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**Version 5.1**

**April 2023**

Maps the Electricity B2B Business Documents and Signals to their aseXML Transactions and acknowledgements

# Important Notice

## **PURPOSE**

The Australian Energy Market Operator (AEMO) has prepared this document to provide information about B2B Mapping to aseXML, as at the date of publication.

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## **VERSION HISTORY**

Version 5.1 is updated with information about the [Shared fuse notification](#).

## **DOCUMENTS MADE OBSOLETE**

The release of this document changes only the version of B2B Mapping to aseXML.

## **FEEDBACK**

Your feedback is important and helps us improve our services and products. To suggest improvements, please contact AEMO's Information and Support Hub.

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# Introduction

## 1 Purpose

The electricity B2B Procedures (Procedures) say what energy businesses must achieve and aseXML is the delivery solution for those business needs. The Procedures refer to Business Documents and Business Signals and this document maps them to their aseXML Transactions and Acknowledgements, sometimes including CSV payloads.

## Audience

Targeted at participants' technical and software development staff responsible for systems implementing the aseXML standard.

## What's in this guide

- Need to Know provides the related Rules and procedures, assumed knowledge, prerequisites.
- aseXML Message provides the top-level element for all aseXML messages.
- Customer and Site Details Notification specifies the standard process and data requirements for the communication, updates, and reconciliation of Customer and Site details.
- Meter Data Process defines the transaction exchanges for delivery of meter data details.
- One Way Notification enables participants to send information or messages to other participants in a single transaction.
- Service Order defines the structure of Service Order transactions to extend the aseXML.
- Client Information defines client information.
- Common defines data types common across multiple transactions and fuels.

- Electricity defines electricity specific types and the standing data structure for electricity.
- Electricity Enumerations contains the electricity specific enumerations added to outside the standard aseXML change process.
- Enumerations contains the enumerations added at short notice and released outside the standard aseXML change cycle.
- Events defines the common format for report events.
- Network Billing defines the transactions used to exchange billing information between network distribution businesses and retailers.
- Needing Help provides information to assist participants with IT related issues and provides guidance for requesting assistance from AEMO.

## How to use this document

- This document is a reference, rather than a document you read from beginning to end. Read it in conjunction with the electricity B2B Procedures and Guidelines for the Development of aseXML.
- This document only refers to aseXML items mentioned in the electricity B2B Procedures.
- The references listed throughout this document are primary resources and take precedence over this document.
- Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- This document is written in plain language for easy reading so does not follow the conventions used in the Procedures (see Table 1 Conventions).
- aseXML types in tables are in the same order as the aseXML.
- If an item is mandatory in the schema, you must supply it. Schema field requirements (optional, mandatory etc.) are separate from field requirements in the procedures. For example, mandatory in the procedures may not mean mandatory in the aseXML schema. Procedural requirements must be complied with.

This document is not a legally binding document nor does it affect the interpretation of any B2B procedure. This document is derived from the Procedures and the Guidelines for the Development of aseXML so if any discrepancies exist between this document and its sources, then the sources prevail.

- If an item is optional, the business procedure is the authority.
- **Text in this format** is a hyperlink to related information.
- **Text in this format** indicates a reference to a document on **AEMO's website**.
- Glossary Terms are capitalised and have the meanings listed against them in the **Retail Electricity Market Procedures - Glossary and Framework**.
- *Italicised terms* are defined in the Rules. Any rules terms not in this format still have the same meaning.

## Conventions

This table explains the mapping between terms used in the Procedures and this document.

Table 1 Conventions

B2B procedures	This document
Business Document	aseXML Transaction Notifications, requests, and responses between participants (see Transactions)
Business Signal – BusinessReceipt	Message Acknowledgement or Event (see MessageAcknowledgement).
Business Signal – BusinessAcceptance/Rejection	Transaction Acknowledgement (see TransactionAcknowledgement).



# Where to find more information

This table explains where to find aseXML explanations in related resources.

Convention	Where to find
Abbreviations and terms	<a href="#">Retail Electricity Market Procedures - Glossary and Framework</a>
aseXML basics: - DTDs vs schemas - Elements versus attributes - Use of enumerations	<a href="#">Guidelines for the Development of aseXML</a>
aseXML conventions	<a href="#">Guidelines for the Development of aseXML</a>
Basic field formats	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Business practices	<a href="#">B2B Guide</a>
CSV data rules	<a href="#">B2B Procedure: Technical Delivery Specification</a> <a href="#">Guidelines for the Development of aseXML</a>
Element definitions such as address, personname etc.	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Elements versus attributes	<a href="#">Guidelines for the Development of aseXML</a>
Event codes	B2B Procedures: <a href="#">Customer and Site Details Notification Process</a> <a href="#">Meter Data Process</a> <a href="#">One Way Notification Process</a> <a href="#">Service Order Process</a>
Event severity	B2B Procedures: <a href="#">Customer and Site Details Notification Process</a> <a href="#">Meter Data Process</a> <a href="#">One Way Notification Process</a> <a href="#">Service Order Process</a>

Convention	Where to find
File naming conventions	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Mapping Business Documents to aseXML Transactions	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Message format	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Message terminology	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Procedure conventions	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Required business fields	Procedures: <a href="#">Customer and Site Details Notification Process</a> <a href="#">Meter Data Process</a> <a href="#">One Way Notification Process</a> <a href="#">Service Order Process</a>
Scenarios	<a href="#">B2B Guide</a>
Schema organisation header, transaction, acknowledgement, error reporting etc.	<a href="#">Guidelines for the Development of aseXML</a>
Timing periods	<a href="#">Relevant B2B Procedure</a>
Transaction delivery requirements	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Transaction groups	<a href="#">B2B Procedure: Technical Delivery Specification</a>
Usage Scenarios	<a href="#">B2B Guide</a>

# Need to Know

## 2 Related rules and procedures

Schema field requirements (optional, mandatory etc.) are separate from field requirements in the procedures. For example, mandatory in the procedures may not mean mandatory in the aseXML schema. Procedural requirements must be complied with.

Type	Details
B2B Procedures v3.4 Consultation	<p><a href="https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v3-4-consultation">https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v3-4-consultation</a></p> <p><a href="https://aemo.com.au/consultations/current-and-closed-consultations/b2b-v362-minor-amendment">https://aemo.com.au/consultations/current-and-closed-consultations/b2b-v362-minor-amendment</a></p> <p>B2B Procedure v3.5 and v3.6.2 effective date: 10 November 2021</p>
B2B Procedure v3.5 - Technical Delivery Specification Process	Updated to reflect Non-contestable Unmetered Load (NCONUML) changes
B2B Procedure v3.5 - One Way Notification Process	Retires the Meter Exchange Notification (MXN) Includes a field for participants to provide a reference to the initiating SO for the Planned Interruption Notice (PIN).
B2B Procedure v3.5 - Service Order Process	Introduces new optional fields supporting better communication between Transaction Initiators and Recipients. Adds a new enumeration to the CustomerType field to communicate an Allocate NMI request for a NCONUML.
<a href="#">National Electricity Rules (NER) v150</a>	B2B Arrangements and Rules consultation procedures

# Related resources

You can find resources on AEMO's website.

**aseXML Standards:** Change process, guidelines, samples, and whitepapers.

**Australian Standard AS4590:** Client information data elements and interchange formats.

**B2B Guide:** Describes how B2B communications are used in standard processes in the NEM.

**B2B Procedure: Technical Delivery Specification:** Defines participant interactions with the *B2B e-Hub*.

**B2B Procedure: Customer And Site Details Notification Process:** Specifies the standard process and data requirements for the communication, updates, and reconciliation of Customer, Site, and Pre-installation details.

**B2B Procedure: Meter Data Process:** Provides participants with a standard format for receiving, requesting, and querying meter data and remote services.

**B2B Procedure: One Way Notification Process:** Details the processes and data requirements for use of One Way Notifications.

**B2B Procedure: Service Order Process:** Defines the standard process and transaction data requirements, enabling participants to request Service Orders and receive confirmation.

**National Electricity Rules, clause 7.2A.3.**

**Guide to Electricity Retail Market Procedures:** Provides an explanation of retail electricity market procedures and supporting documents required by Chapter 7 of NER.

**Guide to MSATS and B2B Terms:** Defines the MSATS And B2B terms used In the electricity retail market.

**Guidelines for the Development of aseXML:** Provides guidance to for the development of the aseXML schema.

**MSATS Procedures: CATS Procedures Principles and Obligations:** Made under clause 7.16.2 of the National Electricity Rules (NER).

**Xpath Tutorial:** [https://www.w3schools.com/xml/xpath\\_intro.asp](https://www.w3schools.com/xml/xpath_intro.asp)

**XSD Data Types:** [https://www.w3schools.com/xml/schema\\_dtypes\\_string.asp](https://www.w3schools.com/xml/schema_dtypes_string.asp)

## Assumed Knowledge

This guide assumes you have knowledge of:

- The B2B Procedures.
- The Retail Electricity Market extensible mark-up language (XML), see [aseXML Standards](#).

## Prerequisites

- Knowledge of aseXML

# aseXML Message

3. An aseXML message provides a standard envelope for the carriage of B2B Transactions or Acknowledgements sent between a B2B Initiator and a B2B Recipient.

**Purpose:** The top-level element for all aseXML messages.

**Detail:** The aseXML schemas make extensive use of Type definitions, but must define one element so instance documents can be created and validated. This element forms the document element for all aseXML messages.

**References:**

- [Acknowledgements\\_r15](#)
- [Guidelines for the Development of aseXML](#)
- [aseXML\\_r41](#)
- [B2B Procedure: Technical Delivery Specification](#)
- [Common\\_r41](#)
- [Events\\_r41](#)
- [Header\\_r37](#)
- [Transactions\\_r38](#)

# Envelope

Purpose: Envelope used by all aseXML messages.

Detail: The envelope consists of a header element followed by a payload element. The payload is one or more transactions or acknowledgements.

Field	Restrictions	aseXML	Schema
Envelope	Required Choice: - Transactions - Acknowledgements	complex	aseXML_r41
Header	Required	Header	Header_r37
Transactions	Required for transactions	Transactions	Transactions_r38
Acknowledgements	Required for acknowledgements	Acknowledgements	Acknowledgements_r15

# Header

Purpose: Define the contents of the aseXML message header.

Detail: Every aseXML message carries a header used to indicate information about the message. When not provided, a default value of NEM is assumed for the market.

Field	Restrictions	aseXML	Schema
Header	Required	sequence	Header_r37
From	Mandatory	PartyIdentifier	Header_r37
To	Mandatory	PartyIdentifier	Header_r37
MessageID	Mandatory	MessageIdentifier	Header_r37

Field	Restrictions	aseXML	Schema
TransactionGroup	Mandatory, xsd:string transaction group choice	TransactionGroup	Header_r37
Priority	Optional, minOccurs="0"	TransactionPriority	Header_r37
MessageDate	Mandatory. Time the sender generated the message, indicated to the millisecond.	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm) ,	Header_r37
SecurityContext	Optional, minOccurs="0"	MessageSecurityContext	Header_r37
Market	Optional, default="NEM" minOccurs="0"	EnergyMarket	Header_r37

## Support types

### MessageIdentifier

Purpose: Uniquely identify every message generated by the message sender.

Detail: Message identifiers are not necessarily globally unique, only unique to a particular sender. The length allows you to use UUIDs as message, guaranteeing global uniqueness.

A message acknowledgement identifies which message it is acknowledging by providing the message identifier as an attribute.

Field	Restrictions	aseXML	Schema
MessageIdentifier	xsd:string minLength value="1" maxLength value="36"	simple	Header_r37



## TransactionGroup

Purpose: Provide the transaction group that all contained transactions or transaction acknowledgments belong.

Detail: The target application is at liberty to reject any transactions within the message that do not belong to the stated TransactionGroup.

Field	Restrictions	aseXML	Schema
TransactionGroup	xsd:string enumerated list (see Table 2)	simple	Header_r37

Table 2 Electricity Retail B2B TransactionGroups

Group	Description
<b>CUST</b>	Customer related
<b>MRSR</b>	remote services request/response
<b>MSGS</b>	Used for message acknowledgements only
<b>MTRD</b>	Meter data
<b>NPNX</b>	Notified Party transaction
<b>OWNP</b>	Own Way Notification
<b>OWNX</b>	NOMW, PIN, MFN and SFN
<b>SITE</b>	Site related
<b>SORD</b>	Service order, planned works

## TransactionPriority

Purpose: Provide the processing priority desired by the sender.

Detail: The sender can indicate their preference in terms of timeliness of processing for the payload. The Receiver can determine if and how to honour the requested priority.

Unless specified in a B2B Procedure:

- All fully tagged aseXML Transactions are sent as medium priority.
- All aseXML wrapped CSV Transactions are sent as low priority.

Field	Restrictions	aseXML	Schema
TransactionPriority	Same priority as the initiating message. xsd:string enumerated list: - High - Medium - Low	simple	Header_r37

## MessageSecurityContext

Purpose: Provide the processing priority desired by the sender.

Detail: The sender can indicate information needed by the receiver to determine whether the sender is authorised to submit the transactions within the message.

For the Market Settlement and Transfer System (MSATS), this is used to hold the participant UserID where the context for transaction processing is determined.

Field	Restrictions	aseXML	Schema
MessageSecurityContext	xsd:string maxLength value="15"	simple	Header_r37

## EnergyMarket

Purpose –Indicate the energy market to which the message belongs.

Detail: Markets are currently defined for the National Electricity Market, the NSW Gas Market and the Victorian Gas Market.

Field	Restrictions	aseXML	Schema
EnergyMarket	xsd:string enumerated list selection = NEM	simple	Header_r37

## Transactions

Purpose: Provides a container for multiple transactions within one aseXML message.

Detail: An aseXML message can contain one or more transactions. All transactions within an aseXML message are grouped under this container.

Field	Restrictions	aseXML	Schema
Transactions	maxOccurs="unbounded"	sequence	Transactions_r38
Transaction	Transaction choice	Transaction	Transactions_r38

# Transaction

Purpose: Common container for all transactions.

Detail: All transactions within aseXML are carried within this container. You provide the transactionID and transactionDate for all transactions. You provide the initiatingTransactionID on response transactions, representing the transactionID of the initiating transaction.

Field	Restrictions	aseXML	Schema
Transaction	maxOccurs="unbounded", Restricted to Transaction main types (see Table 3).	complex	Transactions_r38
transactionID	Mandatory, hexadecimal characters 0-9 and a-f (or A- F)	TransactionIdentifier	Transactions_r38
transactionDate	Mandatory	xsd:dateTime (ccyy-mm- ddThh:mm:ss.sss+hh:mm)	Transactions_r38
initiatingTransactionID	Optional, if response, must match the transactionID from initiating request	TransactionIdentifier	Transactions_r38

Table 3 Transaction types used in the B2B Procedures

Transaction	Procedure
Customer Details Notification	<b>Customer and Site Details Notification</b>
Customer Details Request	<b>Customer and Site Details Notification</b>
MeterDataMissingNotification	<b>Meter Data</b>
MeterDataNotification	<b>Meter Data</b>
MeterDataVerifyRequest	<b>Meter Data</b>
MeterFaultAndIssueNotification	<b>One Way Notification</b>

Transaction	Procedure
NoticeOfMeteringWorks	One Way Notification
NotifiedParty	One Way Notification
OneWayNotification	One Way Notification
PlannedInterruptionNotification	One Way Notification
SharedFuseNotification	One Way Notification
RemoteServiceRequest	Meter Data
RemoteServiceResponse	Meter Data
ServiceOrderRequest	Service Order
ServiceOrderResponse	Service Order
Site Access Request	Customer and Site Details Notification
CSVConsumptionData	Meter Data
CSVIntervalData	Meter Data
PlannedInterruptionNotification	One Way Notification
CSVConsumptionData	Meter Data
CSVIntervalData	Meter Data
Customer Details Notification	Customer and Site Details Notification
Customer Details Request	Customer and Site Details Notification
LifeSupportNotification	Customer and Site Details Notification
LifeSupportRequest	Customer and Site Details Notification

Transaction	Procedure
MeterDataMissingNotification	Meter Data
MeterDataNotification	Meter Data
MeterDataVerifyRequest	Meter Data
MeterFaultAndIssueNotification	One Way Notification
NoticeOfMeteringWorks	One Way Notification
NotifiedParty	One Way Notification
RemoteServiceRequest	Meter Data
RemoteServiceResponse	Meter Data
ServiceOrderResponse	Service Order
OneWayNotification	One Way Notification
PlannedInterruptionNotification	One Way Notification
PlannedInterruptionNotification	One Way Notification
Site Access Notification AmendMeterRouteDetails	Customer and Site Details Notification
Site Access Request	Customer and Site Details Notification

# Support types

## TransactionIdentifier

Purpose: Uniquely identify every transaction generated by the transaction sender.

Detail: Transaction identifiers are not necessarily globally unique; they are only unique to a particular sender. The length allows you to use UUIDs as transaction identifiers, guaranteeing global uniqueness.

A transaction acknowledgement identifies which transaction it is acknowledging by providing the transaction identifier as an attribute.

In addition to carrying its own unique identifier, a transaction generated in response to the initial transaction, also carries the transaction identifier of the initial transaction.

Field	Restrictions	aseXML	Schema
TransactionIdentifier	Mandatory	UniquelIdentifier	Transactions_r38

# Acknowledgements

Purpose: The payload used to carry acknowledgments.

Detail: The aseXML acknowledgement model calls for acknowledgement of each message and transaction, subject to certain rules.

For more information, see [Guidelines for the Development of aseXML](#).

Field	Restrictions	aseXML	Schema
Acknowledgements	sequence	complex	Acknowledgements_r15
MessageAcknowledgement	see MessageAcknowledgement	MessageAcknowledgement	Acknowledgements_r15

Field	Restrictions	aseXML	Schema
TransactionAcknowledgement	see TransactionAcknowledgement	TransactionAcknowledgement	Acknowledgements_r15
ReceiptIdentifier	see ReceiptIdentifier	ReceiptIdentifier	Acknowledgements_r15

## MessageAcknowledgement

Purpose: Acknowledge a received message.

Detail: For every message, a message acknowledgment is generated (with the exception of messages containing message acknowledgements).

A BusinessReceipt has two possible implementations:

- MessageAcknowledgement.
- Event, errors are reported via Event elements.

If a message is rejected, no receipt identifier is required with the acknowledgement.

Field	Restrictions	aseXML	Schema
Event	minOccurs="0" maxOccurs="unbounded"	Event (element)	Events_r41
initiatingMessageID	Mandatory	MessageIdentifier	Header_r37
receiptID	Optional	ReceiptIdentifier	Acknowledgements_r15
receiptDate	Mandatory	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	Acknowledgements_r15
Status	Mandatory	MessageStatus	Acknowledgements_r15



Field	Restrictions	aseXML	Schema
Duplicate	Optional, default="No"	YesNo	Acknowledgements_r15

## TransactionAcknowledgement

Purpose: Acknowledge a received transaction.

Detail: For every transaction, a transaction acknowledgment is generated. Any errors are reported via Event elements.

If a transaction is rejected, no receipt identifier is required with the acknowledgement.

Field	Restrictions	aseXML	Schema
Event	minOccurs="0" maxOccurs="unbounded"	Event (element)	Events_r41
initiatingTransactionID	Mandatory	TransactionIdentifier	Transactions_r38
receiptID	Optional	ReceiptIdentifier	Acknowledgements_r15
receiptDate	Mandatory	xsd:dateTime	Acknowledgements_r15
Status	Mandatory	TransactionStatus	Acknowledgements_r15
Duplicate	Optional, default="No"	YesNo	Acknowledgements_r15
acceptedCount	Optional, non-negative xsd:integer	element	Acknowledgements_r15

# Support types

## ReceiptIdentifier

Purpose: Provide a unique identifier to acknowledge a message or transaction.

Detail: The receiver of an aseXML message or transaction generates a receipt identifier. Its purpose is to provide the sender with an identifier to quote if inquiring about the progress of processing for a message or transaction. It is the sender's guarantee that the receiver will process the message or transaction.

Receipt identifiers are not necessarily globally unique, only unique to a particular receiver. You can use UUIDs as receipt identifiers to guarantee global uniqueness.

Field	Restrictions	aseXML	Schema
ReceiptIdentifier	See UniqueIdentifier	UniqueIdentifier	Transactions_r38

## MessageStatus

Purpose: Indicate the acceptance or rejection of the message.

Field	Restrictions	aseXML	Schema
MessageStatus	xsd:string enumerated list: - Accept - Reject	simple	Acknowledgements_r15

## TransactionStatus

Purpose: Indicate the acceptance, partial acceptance or rejection of the transaction.

Field	Restrictions	aseXML	Schema
TransactionStatus	xsd:string enumerated list: <ul style="list-style-type: none"><li>- Accept</li><li>- Partial</li><li>- Reject</li></ul>	simple	Acknowledgements_r15

# Customer and Site Details Notification

## 4.

Specifies the standard process and data requirements for the communication, updates, and reconciliation of Customer and Site details.

References:

- [B2B Procedure: Customer and Site Details Notification Process](#)
- [CustomerDetails\\_r41.xsd](#)
- [B2B Guide](#)

## Business processes

### Customer Details Request

Step	Business item	Transaction	Who
1.	Send CustomerDetailsRequest	CustomerDetailsRequest	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	TransactionAcknowledgement	Recipient
4.	Send CustomerDetailsNotification	CustomerDetailsNotification	Recipient
5.	Send BusinessReceipt	MessageAcknowledgement	Initiator
6.	Send BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Initiator

## Customer Details Notification

Step	Business item	Transaction	Who
1.	Send CustomerDetailsNotification	CustomerDetailsNotification	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Recipient

## Customer Details Reconciliation

Step	Business item	aseXML	Who
1.	Send CustomerDetailsReconciliation	CustomerDetailsNotification MovementType of Reconciliation	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Recipient
4.	Send CustomerDetailsRequest	CustomerDetailsRequest	Recipient
5.	Receive CustomerDetailsRequest	Customer Details Request	Initiator
6.	Send CustomerDetailsNotification	CustomerDetailsNotification	Initiator

## Life Support Request

For details about email notifications, see [B2B Procedure: Customer and Site Details Notification](#).

Step	Business item	Transaction	Who
1.	Send LifeSupportRequest	Life Support Request	Initiator

Step	Business item	Transaction	Who
2.	Receive LifeSupportRequest	Life Support Request	Recipient
3.	Send LifeSupportNotification	LifeSupportNotification	Recipient
4.	Receive LifeSupportNotification	LifeSupportNotification	Initiator

## Life Support Notification

When a participant needs to notify another participant of life support information or there is a change to life support information, participants can send an LSN without a corresponding LSR. For more details, see [B2B Procedure: Customer and Site Details Notification](#).

Step	Business item	Transaction	Who
1.	Send LifeSupportNotification	LifeSupportNotification	Initiator
2.	Receive LifeSupportNotification	LifeSupportNotification	Recipient
3.	Send BusinessAcceptance/Rejection	LifeSupportNotification	Recipient
4.	Receive BusinessAcceptance/Rejection	LifeSupportNotification	Initiator

## Site Access Request

Step	Business item	aseXML	Who
1.	Send SiteAccessRequest	SiteAccessRequest	Initiator
2.	Receive SiteAccessRequest	SiteAccessRequest	Recipient
3.	Send BusinessReceipt	MessageAcknowledgement	Recipient

Step	Business item	aseXML	Who
4.	Receive BusinessReceipt	MessageAcknowledgement	Initiator
5.	Send BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Recipient
6.	Send SiteAccessNotification	Site Access Notification	Recipient
7.	Receive SiteAccessNotification	Site Access Notification	Initiator

## Site Access Notification

Step	Business item	aseXML	Who
1.	Receive SiteAccessRequest	SiteAccessRequest	Recipient
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Receive BusinessReceipt	MessageAcknowledgement	Initiator
4.	Send BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Recipient
5.	Receive BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Initiator
6.	Send SiteAccessNotification	Site Access Notification	Recipient
7.	Receive SiteAccessNotification	Site Access Notification	Initiator
8.	Send BusinessReceipt	MessageAcknowledgement	Initiator
9.	Receive BusinessReceipt	MessageAcknowledgement	Recipient

Step	Business item	aseXML	Who
10.	Send BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Initiator
11.	Receive BusinessAcceptance/Rejection	CSDN BusinessAcceptance/Rejection	Recipient

# Transaction types

## CustomerDetailsRequest

Purpose	Transaction Group	Version	Use
Obtain current Customer Details and Life Support information from a Retailer.	CUST	r41	Optional

```

<?xml version="1.0"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r41">
  - <Header>
    <From>ACTEWM</From>
    <To>AGLE</To>
    <MessageID>KJHKJHK-34568</MessageID>
    <MessageDate>2005-10-15T01:02:40+10:00</MessageDate>
    <TransactionGroup>CUST</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  - <Transactions>
    - <Transaction transactionDate="2005-10-15T01:02:35+10:00" transactionID="3453535315">
      - <CustomerDetailsRequest version="r32">
        <NMI checksum="7">1234567890</NMI>
        <Reason>Missing Customer Details</Reason>
        - <Comments>
          <CommentLine>Transfer has occurred. Details not provided.</CommentLine>
        </Comments>
      </CustomerDetailsRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>

```



Business field	Restrictions	aseXML	Schema
CustomerDetailsRequest	CustomerDetailsRequest	Transaction	Transactions_r38
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41
Reason	Mandatory	RequestReason	CustomerDetails_r41
SpecialNotes	Mandatory if Reason is Other or Data Quality Issue.  Optional if additional information the Recipient wants to convey to the Initiator.	SpecialComments	Common_r41

## CustomerDetailsNotification

Purpose	Transaction Group	Version	Use
Sent to the DNSP by the Current Retailer to inform changes to customer details (such as outage contact changes or Life Support details).	CUST	r41	Optional

```

<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r41">
  - <Header>
    <From>POOLNZL</From>
    <To>POOLTAS</To>
    <MessageID>B2BM1627430592759000</MessageID>
    <MessageDate>2021-07-28T10:03:12.0+10:00</MessageDate>
    <TransactionGroup>CUST</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  - <Transactions>
    - <Transaction transactionID="B2BT1627430592759001" transactionDate="2021-07-28T10:03:12.0+10:00">
      - <CustomerDetailsNotification version="r36">
        - <Customer>
          <NMI>BK00000051</NMI>
          <SensitiveLoad>None</SensitiveLoad>
          <MovementType>Site Vacant</MovementType>
          <LastModifiedDateTime>2021-07-29T10:00:00.0+10:00</LastModifiedDateTime>
        </Customer>
      </CustomerDetailsNotification>
    </Transaction>
  </Transactions>
</ase:aseXML>

```

Business field	Restrictions	aseXML	Schema
CustomerDetailsNotification	CustomerDetailsNotification	Transaction	Transactions_r38
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41
CustomerName	Required. Not relevant, if the Site is vacant. 1 name only	PersonName	ClientInformation_r36
BusinessName	Mandatory, if the CustomerName is blank. Not relevant, if the Site is vacant.	BusinessName	CustomerDetails_r41
BusinessContactName	Required. Not relevant, if the Site is vacant. 1 name only	PersonName	ClientInformation_r36

Business field	Restrictions	aseXML	Schema
PostalAddress	Mandatory Not relevant, if the Site is vacant.	Address	ClientInformation_r36
DeliveryPointIdentifier	Required. Not relevant, if the Site is vacant.	AustralianDeliveryPointIdentifier	ClientInformation_r36
PhoneNumber1	Required. Not relevant, if the Site is vacant.	AustralianPhoneNumber	ClientInformation_r36
PhoneNumber2	Required. Not relevant, if the Site is vacant.	AustralianPhoneNumber	ClientInformation_r36
EmailAddress	Required. Not relevant, if the Site is vacant.	EmailAddress	ClientInformation_r36
SensitiveLoad	Mandatory, use 'None' if the Site is vacant or there is not sensitive load at the site.	SensitiveLoadType	CustomerDetails_r41
MovementType	Mandatory CustomerDetailsNotification codes: - Site Vacant - Update	MovementType	CustomerDetails_r41
LastModifiedDateTime	Mandatory	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	CustomerDetails_r41

# CustomerDetailsReconciliation

Purpose	Transaction Group	Version	Use
Allows authorised participants to request a snapshot of all NMIs, where the Retailer is financially responsible, and the customer is flagged with Life Support. The Current Retailer conducts the Customer Details Reconciliation with the DNSP.	CUST	r41	Optional
CustomerDetailsNotification where MovementType = Reconciliation only for NMIs where SensitiveLoad = Life Support.			

```
<?xml version="1.0"?>
<ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r41">
  <Header>
    <From>ACTEWM</From>
    <To>INTEGP</To>
    <MessageID>AGLE-MSG-11234569</MessageID>
    <MessageDate>2005-10-15T01:02:40+10:00</MessageDate>
    <TransactionGroup>CUST</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionDate="2005-10-15T01:02:35+10:00" transactionID="AGLE-TNS-11234569">
      <CustomerDetailsNotification version="r36">
        <Customer>
          <NMI>3456789012</NMI>
          <CustomerDetail>
            <PersonName>
              <NameTitle>Mr</NameTitle>
              <GivenName>Bert</GivenName>
              <FamilyName>Naik</FamilyName>
            </PersonName>
            <PostalAddress>
              <AustralianAddress>
                <StructuredAddress>
                  <House>
                    <HouseNumber>100</HouseNumber>
                  </House>
                  <Street>
                    <StreetName>Park</StreetName>
                    <StreetType>ST</StreetType>
                  </Street>
                  <StructuredAddress>
                    <SuburbOrPlaceOrLocality>Surray Hills</SuburbOrPlaceOrLocality>
                    <StateOrTerritory>ACT</StateOrTerritory>
                    <PostCode>2601</PostCode>
                    <DeliveryPointIdentifier>12345678</DeliveryPointIdentifier>
                  </AustralianAddress>
                </PostalAddress>
                <PhoneNumber serviceType="Fixed Voice">
                  <Prefix>03</Prefix>
                  <Number>9665555</Number>
                </PhoneNumber>
                <PhoneNumber serviceType="Mobile Voice">
                  <Prefix>0411</Prefix>
                  <Number>792805</Number>
                </PhoneNumber>
              </CustomerDetail>
              <SensitiveLoad>Life Support</SensitiveLoad>
              <MovementType>Reconciliation</MovementType>
              <LastModifiedDateTime>2005-10-14T10:10:35+10:00</LastModifiedDateTime>
            <ConcessionCard rebateType="Health Care Card">
              <Number>7868979879</Number>
              <FromDate>2004-02-15</FromDate>
              <ToDate>2009-02-14</ToDate>
            </ConcessionCard>
          </Customer>
        </CustomerDetailsNotification>
      </Transaction>
    </Transactions>
  </ase:aseXML>
```

Business field	Restrictions	aseXML	Schema
CustomerDetails Notification	CustomerDetails Notification	Transaction	Transactions_r38
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41

Business field	Restrictions	aseXML	Schema
CustomerName	Mandatory, if BusinessName is blank. Not relevant, if the Site is vacant.	PersonName	ClientInformation_r36
BusinessName	Mandatory, if the CustomerName is blank. Not relevant, if the Site is vacant.	BusinessName	CustomerDetails_r41
BusinessContact Name	Required. Not relevant, if the Site is vacant.	PersonName	ClientInformation_r36
PostalAddress	Mandatory Not relevant, if the Site is vacant.	Address	ClientInformation_r36
DeliveryPointIdentifier	Required. Not relevant, if the Site is vacant.	AustralianDeliveryPointIdentifier	ClientInformation_r36
PhoneNumber1	Required. Not relevant, if the Site is vacant.	AustralianPhoneNumber	ClientInformation_r36
PhoneNumber2	Required. Not relevant, if the Site is vacant.	AustralianPhoneNumber	ClientInformation_r36
EmailAddress	Required. Not relevant, if the Site is vacant.	EmailAddress	ClientInformation_r36
SensitiveLoad	Mandatory: Life Support	SensitiveLoadType	CustomerDetails_r41
MovementType	Mandatory: Reconciliation	MovementType	CustomerDetails_r41

Business field	Restrictions	aseXML	Schema
LastModifiedDate Time	Mandatory	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	<b>B2B Procedure: Technical Delivery Specification</b>

# LifeSupportRequest

Purpose	Transaction Group	Version	Use
Request Life support Details	CUST	r41	Optional

Figure 1 - Life Support Request

```

<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r41">
  - <Header>
    <From>NEMMCO</From>
    <To>ACTEWM</To>
    <MessageID>B2BM1628826032188000</MessageID>
    <MessageDate>2021-08-13T13:40:32.0+10:00</MessageDate>
    <TransactionGroup>CUST</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  - <Transactions>
    - <Transaction transactionID="B2BT1628826032766000" transactionDate="2021-08-13T13:40:32.0+10:00">
      - <LifeSupportRequest>
        <NMI>5345345353</NMI>
        <Reason>Data Quality Issue</Reason>
        - <SpecialNotes>
          <CommentLine>xczccs</CommentLine>
        </SpecialNotes>
      </LifeSupportRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>

```

Business field	Restrictions	aseXML	Schema
LifeSupportRequest	ComplexType	Transaction	Transactions_r38
NMI	Mandatory	NMI	Common_r41
NMIChecksum	Mandatory	NMIChecksum	Common_r41
Reason	Mandatory	LifeSupportRequestReason	CustomerDetails_r41

Business field	Restrictions	aseXML	Schema
SpecialNotes	Optional or Mandatory if LSEquipment is Other.	SpecialComments	Common_r41

# LifeSupportNotification

Purpose	Transaction Group	Version	Use
Used when the DNSP or Retailer are informed by a customer they require life support or there are changes to the life support information or requirement.	CUST	r41	Optional

Figure 2 - Life Support Notification - Reconciliation

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r41">
  <Header>
    <From>POOLNZL</From>
    <To>POOLTAS</To>
    <MessageID>B2BM1628819633444000</MessageID>
    <MessageDate>2021-08-13T11:53:53.0+10:00</MessageDate>
    <TransactionGroup>CUST</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="B2BT1628819633569001" transactionDate="2021-08-13T11:53:53.0+10:00">
      <LifeSupportNotification>
        <LifeSupportData>
          <NMI>BK00000051</NMI>
          <SiteAddress>
            <AustralianAddress>
              <UnstructuredAddress>
                <AddressLine>Test</AddressLine>
              </UnstructuredAddress>
              <SuburbOrPlaceOrLocality>Altona north</SuburbOrPlaceOrLocality>
              <StateOrTerritory>VIC</StateOrTerritory>
              <PostCode>3000</PostCode>
            </AustralianAddress>
          </SiteAddress>
          <Reason>Update</Reason>
          <RegistrationOwner>Yes</RegistrationOwner>
          <Status>Registered - No Medical Confirmation</Status>
          <DateRequired>2021-07-29</DateRequired>
          <ManagementContactDetail>
            <PersonName nameType="LGL">
              <NameTitle>Mr</NameTitle>
              <GivenName>Test</GivenName>
              <FamilyName>test</FamilyName>
            </PersonName>
            <PostalAddress>
              <AustralianAddress>
                <UnstructuredAddress>
                  <AddressLine>Test</AddressLine>
                </UnstructuredAddress>
                <SuburbOrPlaceOrLocality>Alonta north</SuburbOrPlaceOrLocality>
                <StateOrTerritory>VIC</StateOrTerritory>
                <PostCode>3000</PostCode>
              </AustralianAddress>
            </PostalAddress>
          </ManagementContactDetail>
          <LastModifiedDateTime>2021-07-29T10:00:00.0+10:00</LastModifiedDateTime>
        </LifeSupportData>
      </LifeSupportNotification>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

Business field	Restrictions	aseXML	Schema
LifeSupportNotification	Complex	Transaction	Transactions_r38

Business field	Restrictions	aseXML	Schema
RegistrationOwner	Mandatory or Not relevant if LifeSupportStatus = None	LifeSupportData	CustomerDetails_r41
LifeSupportStatus	Mandatory	LifeSupportData	CustomerDetails_r41
DateRequired	Mandatory or Not relevant if LifeSupportStatus = None	LifeSupportData	CustomerDetails_r41
LSEquipment	Mandatory	LifeSupportData	CustomerDetails_r41
LSContactName	Required	LifeSupportData	CustomerDetails_r41
LSPostalAddress	Required or Not relevant. See <b>B2B Procedure: Technical Delivery Specification</b>	LifeSupportData	CustomerDetails_r41
LSPhoneNumber1	Required or Not relevant Must be the phone number of the person who is the contact for Life Support requirements.	LifeSupportData	CustomerDetails_r41
LSPhoneNumber2	Same as above	LifeSupportData	CustomerDetails_r41
LSContactEmailAddress	Required or Not relevant	LifeSupportData/ContactMethod	CustomerDetails_r41
PreferredContactMethod	Optional	LifeSupportData	CustomerDetails_r41
SpecialNotes	Optional or Mandatory	LifeSupportData/ContactMethod	CustomerDetails_r41
LastModifiedDateTime	Mandatory	LifeSupportData	CustomerDetails_r41



# SiteAccessRequest

Purpose	Transaction Group	Version	Use
Sent by any authorised party to another related party for the NMI to enable greater sharing of hazard and access Information between participants. For example, an MP may require site access information from another party, or a new Retailer may want to obtain current site access information from a DNSP.	SITE	r41	optional

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ase="urn:aseXML:r41">
  - <Header>
    <From>POOLNZL</From>
    <To>POOLTAS</To>
    <MessageID>B2BM1627431012006000</MessageID>
    <MessageDate>2021-07-28T10:10:11.0+10:00</MessageDate>
    <TransactionGroup>SITE</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  - <Transactions>
    - <Transaction transactionID="B2BT1627431012113000" transactionDate="2021-07-28T10:10:11.0+10:00">
      - <SiteAccessRequest>
        <NMI>BK00000051</NMI>
        <Reason>New Retailer for site</Reason>
        - <SpecialNotes>
          <CommentLine>Test</CommentLine>
        </SpecialNotes>
      </SiteAccessRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

Business field	Restrictions	aseXML	Schema
SiteAccessRequest	SiteAccessRequest	Transaction	Transactions_r38
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41
Reason	Mandatory	SiteRequestReason	CustomerDetails_r41
SpecialNotes	Mandatory if Reason is Other Otherwise, optional	SpecialComments	Common_r41

# Site Access Notification

Purpose	Transaction Group	Version	Use
Sent to the DNSP by the Current Retailer to inform site address or access changes or in response to a Site Access Request.	SITE	r41	optional

Business field	Restrictions	aseXML	Schema
Site Access Notification	AmendMeterRouteDetails	Transaction/AmendMeterRouteDetails	Transactions_r38
NMI	choice	AmendSiteAccessDetails/NMI	Common_r41
NMIChecksum	Optional	AmendSiteAddressDetails/NMI/NMIChecksum	Common_r41
AccessDetails	Mandatory	AmendSiteAccessDetails/SiteAccessDetails/NMIStandingData/AccessDetail	Common_r41
HazardDescription	Mandatory	AmendSiteAccessDetails/SiteAccessDetails/NMIStandingData/Hazard/SiteHazard	Common_r41
LastModifiedDate	Mandatory xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	AmendSiteAccessDetails/SiteAccessDetails/NMIStandingData	CustomerDetails_r41

# CSDN BusinessAcceptance/Rejection

Business field	Restrictions	aseXML	Schema
EventCode	Mandatory	EventCode	Events_r41

Business field	Restrictions	aseXML	Schema
KeyInfo	Mandatory	EventKeyInfo	Events_r41
Context	Optional	EventContext	Events_r41
Explanation	Mandatory if the Business Event requires an explanation, otherwise optional xsd:string unlimited chars, minOccurs="0" See <a href="#">B2B Procedure: Customer and Site Details Process</a>	Explanation	Events_r41

## Support types

### BusinessNameBase

Field	Restrictions	aseXML	Schema
BusinessNameBase	string ≤ 200 chars	simple	CustomerDetails_r41

### BusinessNameTypeCode

Field	Restrictions	aseXML	Schema
BusinessNameTypeCode	xsd:string enumerated list (see Table 4)	simple	CustomerDetails_r41

Table 4 BusinessNameTypeCode list

LGL MAU MN MTR OTH OTR PRF

## BusinessName

Field	Restrictions	aseXML	Schema
BusinessName	extension	complex	CustomerDetails_r41
BusinessNameBase	See BusinessNameBase	BusinessNameBase	CustomerDetails_r41
businessNameTypeCode	use="optional"	BusinessNameTypeCode	CustomerDetails_r41

## ConcessionCard

Field	Restrictions	aseXML	Schema
ConcessionCard	sequence	complex	CustomerDetails_r41
Number	maxLength = 10	xsd:string	CustomerDetails_r41
FromDate	minOccurs= 0	xsd:date (ccyymmdd),	CustomerDetails_r41
ToDate	minOccurs= 0	xsd:date (ccyymmdd)	CustomerDetails_r41
rebateType	use="optional"	RebateType	CustomerDetails_r41

# ContactMethod

Purpose: Define the basic set of contact methods.

Field	Restrictions	aseXML	Schema
ContactMethod	xsd:string ≤ 20 chars enumerated list: - Postal Address - Site Address - Email Address - Phone	SimpleType	CustomerDetails_r41

# CustomerData

Field	Restrictions	aseXML	Schema
CustomerData	minOccurs=0	complex sequence	CustomerDetails_r41
NMI	See NMI	NMIStandingData/NMI	Common_r41
CustomerDetail	See CustomerDetail	CustomerDetail	CustomerDetails_r41C ustomerDetails_r41
SensitiveLoad	See SensitiveLoadType	SensitiveLoadType	CustomerDetails_r41C ustomerDetails_r41
MovementType	See MovementType	MovementType	CustomerDetails_r41C ustomerDetails_r41
lastModified	DateTime	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	CustomerDetails_r41C ustomerDetails_r41
ConcessionCard	minOccurs= "0"	ConcessionCard	CustomerDetails_r41C ustomerDetails_r41

# CustomerDetail

Purpose: Defines the customer details for notification.

ContactDetail is derived from CustomerDetail.

Field	Restrictions	aseXML	Schema
CustomerDetail	sequence	complex	CustomerDetails_r41
PersonName	See PersonName	PersonName	ClientInformation_r36
BusinessName	See BusinessName	BusinessName	CustomerDetails_r41
ContactName	minOccurs= "0", maxOccurs= "unbounded"	PersonName	ClientInformation_r36
PostalAddress	minOccurs= "0"	Address	ClientInformation_r36
PhoneNumber	minOccurs= "0", maxOccurs= "unbounded"	AustralianPhoneNumber	ClientInformation_r36
EmailAddress	minOccurs= "0", maxOccurs= unbounded	EmailAddress	ClientInformation_r36

# LifeSupportRequestReason

Purpose: Define the fixed Life support request reasons for a Life Support Request.

Business field	Restrictions	aseXML	Schema
Reason	xsd:string 14 chars Enumerated list: - Confirm Life Support - Data Quality Issue - No response to rejected LSN - Other	SimpleType	CustomerDetails_r41

# LifeSupportData

Purpose: Define the LifeSupportNotification details.

Business field	Restrictions	aseXML	Schema
NMI	Mandatory	NMI	Common_r41
SiteAddress	Optional, structured format (where available) or unstructured.	Address	ClientInformation_r36
Reason	Mandatory	UpdateReason	CustomerDetails_r41
RegistrationOwner	Mandatory or Not relevant if LifeSupportStatus = None	YesNo	Common_r41
Status	Mandatory	LifeSupportStatus	CustomerDetails_r41
DateRequired	Mandatory or Not relevant if LifeSupportStatus = None	xsd:date (ccyymmdd)	<b>B2B Procedure: Technical Delivery Specification</b>

Business field	Restrictions	aseXML	Schema
Equipment	<p>Mandatory. xsd:string ≤ 50 chars</p> <p>Allowed values:</p> <ul style="list-style-type: none"> <li>- Oxygen Concentrator</li> <li>- Intermittent Peritoneal Dialysis Machine</li> <li>- Kidney Dialysis Machine</li> <li>- Chronic Positive Airways Pressure Respirator</li> <li>- Crigler Najjar Syndrome Phototherapy Equipment</li> <li>- Ventilator For Life Support</li> <li>- Other</li> </ul> <p>Not relevant when LifeSupportStatus is:</p> <ul style="list-style-type: none"> <li>- Deregistered – No Medical Confirmation</li> <li>- Deregistered – Customer Advice</li> <li>- Deregistered – No Customer Response</li> <li>- None</li> </ul>	LifeSupportEquipmentType	CustomerDetails_r41 ElectricityEnumerations
LSContactName	<p>Required.</p> <p>Not relevant when LifeSupportStatus is:</p> <ul style="list-style-type: none"> <li>- Deregistered – No Medical Confirmation</li> <li>- Deregistered – Customer Advice</li> <li>- Deregistered – No Customer Response</li> <li>- None</li> </ul>	ManagementCustomerDetail/CustomerDetail/	ClientInformation_r36 CustomerDetails_r41
PreferredContactMethod	<p>Optional values:</p> <ul style="list-style-type: none"> <li>- Postal Address</li> <li>- Site Address</li> <li>- Email Address</li> <li>- Phone</li> </ul>	ContactMethod	CustomerDetails_r41
SpecialNotes	Optional or Mandatory if LSEquipment is Other.	SpecialComments	Common_r41



Business field	Restrictions	aseXML	Schema
LastModifiedDateTime	Mandatory	xsd:dateTime	CustomerDetails_r41

## LifeSupportStatus

Purpose: Define the fixed Life Support Status used in the Life Support Notification.

Business field	Restrictions	aseXML	Schema
LifeSupportStatus	Mandatory xsd:string ≤ 50 chars enumerated list Allowed values: <ul style="list-style-type: none"> <li>- Registered - No Medical Confirmation</li> <li>- Registered - Medical Confirmation</li> <li>- Deregistered – No Medical Confirmation</li> <li>- Deregistered – Customer Advice</li> <li>- Deregistered – No Customer Response</li> <li>- None</li> </ul>	Complex Type	CustomerDetails_r41

## MovementType

Purpose: Define the fixed Special Condition Code used in the customer details notification where:

**RecCustConf:** Reconciliation – Confirmed with Customer. Means the Retailer has confirmed with the Customer the SensitiveLoad value is correct.

**RecPerRetailer:** Reconciliation – As per Retailer. Means that the Retailer reasonably believes that the SensitiveLoad value provided is correct. **RecPerDNSP:** Reconciliation – As per DNSP. Means that the Retailer agrees that the SensitiveLoad value should be None, as inferred by the DNSP.

Field	Restrictions	aseXML	Schema
MovementType	xsd:string enumerated list (see Table 5)	simple	CustomerDetails_r41

Table 5 MovementType list

RecCustConf    Reconciliation    RecPerDNSP    RecPerRetailerf    Site Vacant    Update

## Product

Field	Restrictions	aseXML	Schema
Product	sequence	complex	CustomerDetails_r41
Code	maxOccurs=unbounded, xsd:string maxLength = 10	element	CustomerDetails_r41

## RebateType

Purpose: Defines the rebate Type for the concession details.

Field	Restrictions	aseXML	Schema
RebateType	xsd:string enumerated list (see Table 6)	simple	CustomerDetails_r41

Table 6 RebateType list

Health Benefit Card    Health Care Card    Pension Card    Veteran Affairs Card

# RequestReason

Purpose: Define the fixed Reasons used to request customer details.

Field	Restrictions	aseXML	Schema
RequestReason	xsd:string enumerated list (see Table 7)	simple	CustomerDetails_r41

Table 7 RequestReason list

Confirm Life Support	Data Quality Issue	Missing Customer Details
New Connection, no CDN Received	No response to rejected CDN	Other
Rec – confirm no SensitiveLoad	Returned Mail	Transfer Complete, no CDN Received

# SpecialConditionCode

Purpose: Define the fixed Special Condition Code used in the customer details notification.

Field	Restrictions	aseXML	Schema
SpecialConditionCode	xsd:string enumerated list: - LSUP - NOTO	simple	CustomerDetails_r41

# SensitiveLoadType

Purpose: Define the fixed Special Condition Code used in the customer details notification.

Field	Restrictions	aseXML	Schema
SensitiveLoadType	xsd:string enumerated list: - Life Support - Sensitive Load - None	simple	CustomerDetails_r41

# UpdateReason

Purpose: Define the reasons for provision of details notification

Business field	Restrictions	aseXML	Schema
Reason	Mandatory xsd:string 14 chars Allowable Values: - Update - Reconciliation	SimpleType	CustomerDetails_r41

# Meter Data Process

Purpose: Define the transaction exchanges for delivery of meter data details.

**5.** The Meter Data Delivery transaction exchange allows for the provision of interval and consumption meter data and profile shapes.

References:

- [B2B Procedure: Meter Data Process](#)
- [MeterDataManagement\\_r36.xsd](#)
- [B2B Guide](#)

## Business processes

### Provide Meter Data Request

Step	Business item	aseXML	Who
1.	Send ProvideMeterDataRequest	ProvideMeterDataRequest	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Recipient
4.	Send MeterDataNotification	MeterDataNotification	Recipient
5.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Initiator

## Verify Meter Data Request

Step	Business item	aseXML	Who
1.	Send VerifyMeterDataRequest	MeterDataVerifyRequest	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Recipient
4.	Send MeterDataNotification	MeterDataNotification	Recipient
5.	Send BusinessReceipt	MessageAcknowledgement	Initiator
6.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Initiator

## Meter Data Notification

Step	Business item	aseXML	Who
1.	Send MeterDataNotification	MeterDataNotification	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Recipient

## Remote Service Request

Step	Business item	aseXML	Who
1.	Send RemoteServiceRequest	RemoteServiceRequest	Initiator

Step	Business item	aseXML	Who
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Recipient
4.	Send RemoteServiceResponse	RemoteServiceResponse	Recipient
5.	Send BusinessReceipt	MessageAcknowledgement	Initiator
6.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Initiator

## Remote Service Response

Step	Business item	aseXML	Who
1.	Send RemoteServiceResponse	RemoteServiceResponse	Recipient
2.	Send BusinessReceipt	MessageAcknowledgement	Initiator
3.	Send BusinessAcceptance/Rejection	Meter Data BusinessAcceptance/Rejection	Initiator

# Transaction types

## ProvideMeterDataRequest

Purpose	Transaction Group	Version	Use
An Initiator can commence the Provide Meter Data Request if they require: <ul style="list-style-type: none"> <li>- MDFF Data they are entitled to under the NER and the NERR.</li> <li>- Historical metering data they are entitled to under the CATS Procedures or a Jurisdictional instrument.</li> <li>- A Recipient to re-send specified MDFF Data.</li> </ul>	MTRD	r9	optional

Business field	Restrictions	aseXML	schema
MeterDataVerifyRequest	MeterDataVerifyRequest	Transaction	MeterDataManagement_r36
InitiatorRole	Mandatory	InitiatingTransactionID/TransactionIdentifier	Transactions_r38
RequestID	Mandatory	TransactionID/TransactionIdentifier	Transactions_r38
NMI	Mandatory	VerifyRequestData/NMITransactionBase/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41
StartReadDate	Mandatory, xsd:date (ccyymmdd)	CSVDataWithName	Common_r41
EndReadDate	Optional, xsd:date (ccyymmdd)	CSVDataWithName	Common_r41



# MeterDataVerifyRequest

Purpose	Transaction Group	Version	Use
Initiator queries MDFF data to ensure they have the latest version. Normally, after a ProvideMeterDataRequest.a	MTRD	r9	optional

Field	Restrictions	aseXML	schema
MeterDataVerifyRequest	MeterDataVerifyRequest	Transaction	MeterDataManagement_r36
InitiatorRole	Mandatory	InitiatingTransactionID/TransactionIdentifier	Transactions_r38
RequestID	Mandatory	TransactionID/TransactionIdentifier	Transactions_r38
NMI	Mandatory	VerifyRequestData/NMITransactionBase/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41
NMIConfiguration	Not relevant or Mandatory  If provided, enter the expected NMIConfiguration or perceived problem in the InvestigationDescription field.  See <b>B2B Procedure: Meter Data Process.</b>	NMIConfigurationType	Electricity_r41

Field	Restrictions	aseXML	schema
MeterSerial	<p>Not relevant or Mandatory</p> <p>Only required if the queried data is at the single meter level or an individual Datastream level.</p> <p>See <b>B2B Procedure: Meter Data Process.</b></p>	MeterSerialNumbers	MeterDataManagement_r36
NMISuffix	<p>Not relevant or Mandatory</p> <p>See <b>B2B Procedure: Meter Data Process.</b></p>	NMIDataStreamSuffix	Electricity_r4136
RegisterID	<p>Optional. Provided where the queried data relates to a single RegisterID or if a CurrentRead is provided.</p>	MeterRegisterIdentifier	Electricity_r41
CurrentRead	<p>Not relevant for interval data</p> <p>Not relevant or Mandatory for accumulation meters if any of the following InvestigationCodes are used:</p> <ul style="list-style-type: none"> <li>- Confirm Reading For Vacant Site</li> <li>- Verify High Reading</li> <li>- Verify Low Reading</li> <li>- Confirm Zero Consumption</li> </ul> <p>If populated, the NMISuffix must be populated and the RegisterID may be populated.</p> <p>Original Meter Reading provided in the MDFF data being queried.</p> <p>xsd:string 15 chars</p>	CSVDataWithName	Common_r41

Field	Restrictions	aseXML	schema
CurrentReadDate	Not relevant for interval data  Not relevant or Mandatory for accumulation meters if CurrentRead is populated.  xsd:date (ccyymmdd)	CSVDataWithName	Common_r41
CurrentConsumption	Not relevant for interval data  Mandatory for accumulation meters if CurrentRead is populated.  Original consumption figure (in kWh) in the MDFF queried data.	CSVDataWithName	Common_r41
StartReadDate	Mandatory, xsd:date (ccyymmdd)	CSVDataWithName	Common_r41
EndReadDate	Optional, xsd:date (ccyymmdd)	CSVDataWithName	Common_r41
InvestigationCode	Mandatory	ElecIndexInvestigationCode	ElectricityEnumerations
InvestigationDescription	Mandatory, xsd:string 240 chars  Free text to assist the investigation. Specify the Meter Reading, the period, and the description of the problem.	UserDefinition	MeterDataManagement_r36
version	type="r9" use="optional" default="r9"	attribute	MeterDataManagement_r36

# MeterDataNotification

Purpose	Transaction Group	Version	Use
Provide MDFF data to an MDP.	MTRD	r_25	optional

Business field	Restrictions	aseXML	Schema
MeterDataNotification	<p>Only CSVConsumptionData or CSVIntervalData used.</p> <p>You can only deliver one type of meter data within a transaction.</p>	CSVIntervalData	MeterDataManagement_r36
RecipientRole	Mandatory	RoleAssignment	Common_r41
RequestID	<p>Not relevant or Mandatory</p> <p>Not relevant if sent as part of the normal Meter Data Notification Process.</p> <p>Mandatory if sent to the requesting Initiator as a response to a ProvideMeterDataRequest , VerifyMeterDataRequest or RemoteServiceRequest.</p>	ServiceRequestID	MeterDataManagement_r36
CSVConsumptionData	<p>Required, nillable="true"</p> <p>Standard MDFF file format with data for Accumulation Meters only, not Interval Meter data or a mixture of the two.</p>	CSVConsumptionData	MeterDataManagement_r36
CSVIntervalData	<p>Required</p> <p>Standard MDFF file format with data for Interval Meters only, not Accumulation Meter data or a mixture of the two.</p>	CSVIntervalData	Common_r41

# MeterDataMissingNotification

Purpose	Transaction Group	Version	Use
Requests the latest MDFF data held by the Recipient	MTRD	r14	optional

Business field	Restrictions	aseXML	Schema
MeterDataMissingNotification	MeterDataMissingNotification	Transaction	MeterDataManagement_r36
MissingMeterData	element	NMITransactionBase	Common_r41
CSVMissingMeterData	element	CSVRequestFormat	Common_r41

# RemoteServiceRequest

Purpose	Transaction Group	Version	Use
Submit Remote Service Request details to the service provider. Used to remotely retrieve information for:	MRSR	r36	optional
<ul style="list-style-type: none"> <li>- A specified metering installation.</li> <li>- A reading on demand</li> <li>- A scheduled reading to commence, end or change.</li> </ul>			

Business field	Restrictions	aseXML	Schema
RemoteService Request	Prior to commencing the Remote Service Process, the Initiator and Recipient must agree the scope of the service(s) and the format of the response to the service request.	Transaction	MeterDataManagement_r36
RequestID	Mandatory	ServiceRequestID	MeterDataManagement_r36
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41
MeterSerialNumber	Optional	MeterSerialNumbers	MeterDataManagement_r36
ServiceType	Mandatory	RemoteServiceType	MeterDataManagement_r36
RequestCode	Mandatory	RemoteServiceRequestCode	MeterDataManagement_r36
ResponseFormat	Mandatory	ResponseFormat	MeterDataManagement_r36
FromDateTime	Optional, xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	CSVDataWithName	Common_r41
ToDateTime	Optional, xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	CSVDataWithName	Common_r41

Business field	Restrictions	aseXML	Schema
UserDef1... UserDef10	sequence	UserDefData	MeterDataManagement_r36

## RemoteServiceResponse

Purpose	Transaction Group	Version	Use
Recipient responds to the Initiator with a Remote Service Response.	MRSR	r36	optional

Business field	Restrictions	aseXML	Schema
RemoteServiceResponse	Prior to commencing the Remote Service Process, the Initiator and Recipient must agree the scope of the service(s) and the format of the response to the service request.	Transaction	MeterDataManagement_r36

RequestID	Mandatory	ServiceRequestID	MeterDataManagement_r36
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Optional	NMI/NMIChecksum	Common_r41

Business field	Restrictions	aseXML	Schema
MeterSerialNumber	Optional	MeterSerialNumbers	MeterDataManagement_r36
ServiceType	Mandatory	RemoteServiceType	MeterDataManagement_r36
RequestCode	Mandatory	RemoteServiceRequestCode	MeterDataManagement_r36
ResponseFormat	Mandatory	ResponseFormat	MeterDataManagement_r36
FromDateTime	Optional, xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss +hh:mm)	CSVDataWithName	Common_r41
ToDateTime	Optional, xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss +hh:mm)	CSVDataWithName	Common_r41
UserDef1... UserDef10	sequence	UserDefData	MeterDataManagement_r36
ResponsePayload	Optional	ResponsePayload	MeterDataManagement_r36
ErrorCode	Mandatory	EventCode	Events_r41
ErrorDescription	Not relevant or Mandatory  Mandatory when Error Code not equal to zero	Event (element)	Events_r41
ProductCode	Optional	Product	CustomerDetails_r41



# BusinessAcceptance/Rejection for MDN not accepted

Business field	Restrictions	aseXML	Schema
EventCode	Mandatory See <a href="#">B2B Procedure: Meter Data Process</a>	EventCode	Events_r41
KeyInfo	Not relevant or Mandatory If populated with a number, it is the line number within the CSV data block where the event occurred. If the field is not populated, the EventCode refers to the aseXML transaction, not the CSV data.	EventKeyInfo	Events_r41
Context	Not relevant or Mandatory	EventContext	Events_r41
Explanation	Mandatory if the Business Event requires an explanation, otherwise optional xsd:string unlimited chars, minOccurs="0" See <a href="#">B2B Procedure: Meter Data Process</a>	Explanation	Events_r41

## Meter Data BusinessAcceptance/Rejection

Business field	Restrictions	aseXML	Schema
EventCode	Mandatory	EventCode	Events_r41
KeyInfo	Mandatory	EventKeyInfo	Events_r41
Status	Mandatory	TransactionStatus	Events_r41

# CSVTypes

## CSVConsumptionData

Purpose	Transaction Group	Version	Use
Deliver consumption meter data (also called basic meter data).	MTRD	r_25	optional

Field	Restrictions	aseXML	Schema
CSVConsumptionData	nillable="true"	CSVDataWithName	Common_r41

Use the following column headings for the National Electricity Market (NEM).

Heading	Description
NMI	10 characters
Suffix	2 characters
FromDate	YYYYMMDD
ToDate	YYYYMMDD
Status	A or E
Reading	kiloWattHours, no leading/trailing zeros

# CSVIntervalData

Purpose	Transaction Group	Version	Use	Priority
Deliver interval meter data	MTRD	r_25	optional	Low

Field	Restrictions	aseXML	Schema
CSVIntervalData	nillable="true"	CSVDataWithName	Common_r41

Use the following column headings for the National Electricity Market (NEM).

Heading	Description
NMI	10 characters
Suffix	2 characters
MDPVersionDate	YYYYMMDDHHMMSS
SettlementDate	YYYYMMDD
Status	48 characters, 1 per interval, A or E
Period 01...Period48	in kiloWattHours, no leading/trailing zeros

# Main types

## MeterReadingGroup

field	Restrictions	aseXML	Schema
MeterReadGroup	sequence	complex	MeterDataManagement_r36
MeterReadingGroupId	sequence	MeterReadingGroupId	MeterDataManagement_r36
context	use="optional"	MeterReadingGroupType	MeterDataManagement_r36

# Support types

## MeterReadingGroupId

Purpose: Used to define the ID associated with the Meter Reading Group Type.

field	Restrictions	aseXML	Schema
MeterReadingGroupId	xsd:string ≥ 1 minLength value="1" whitespace value="collapse"	simple	MeterDataManagement_r36

## MeterReadingGroupType

Purpose: This is a method of grouping meters belonging to either one end-use customer (NMI), one builder via all portable meters defined as belonging to one Site (the builders address even though these meters are temporarily installed at building sites), or for a large company (e.g. Water Corp) by grouping all the meters into one or more Routes (Route ID). Values used by WA market are NMI, SITE or ROUTE.

field	Restrictions	aseXML	Schema
MeterReadingGroupType	xsd:string enumerated list: - NMI - Site - Route	simple	MeterDataManagement_r36

## MeterSerialNumbers

Purpose: Collection of affected meters.

Field	Restrictions	aseXML	Schema
MeterSerialNumbers	sequence	MeterSerialNumber	MeterDataManagement_r36

## RemoteServiceRequestCode

Purpose: Defines the RemoteServiceRequest code.

Field	Restrictions	aseXML	Schema
RemoteServiceRequestCode	xsd:string maxLength value="40"	simple	MeterDataManagement_r36

# RemoteServiceResponseData

Purpose: Define remote service response parent data components.

Field	Restrictions	aseXML	Schema
RemoteServiceResponseData	sequence	complex	MeterDataManagement_r36
ResponsePayload	minOccurs="0"	ResponsePayload	MeterDataManagement_r36
Event	minOccurs="0"	Event (element)	Events_r41
Product	minOccurs="0"	Product	CustomerDetails_r41

# RemoteServiceData

Purpose: Define remote service request parent data components.

Field	Restrictions	aseXML	Schema
RemoteServiceData	sequence	complex	MeterDataManagement_r36
RequestID	See ServiceRequestID	ServiceRequestID	MeterDataManagement_r36
NMI	See NMI	NMIStandingData/NMI	Common_r41
Meters	minOccurs="0"	MeterSerialNumber	Common_r41
ServiceType	See RemoteServiceType	RemoteServiceType	MeterDataManagement_r36
RequestCode	See RemoteServiceRequestCode	RemoteServiceRequestCode	MeterDataManagement_r36
ResponseFormat	See ResponseFormat	ResponseFormat	MeterDataManagement_r36

Field	Restrictions	aseXML	Schema
FromDateTime	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm), minOccurs="0"	element	MeterDataManagement_r36
UserDef	minOccurs="0"	UserDefData	MeterDataManagement_r36

## RemoteServiceType

Purpose: Defines the RemoteService Type.

Field	Restrictions	aseXML	Schema
RemoteServiceType	string, maxLength value="40"	simple	MeterDataManagement_r36

## ResponseFormat

Purpose: Used to define the response payload format, for example, CSV, XML, MDFF, BASE64.

Field	Restrictions	aseXML	Schema
ResponseFormat	string, maxLength value="20"	simple	MeterDataManagement_r36

## ResponsePayload

Field	Restrictions	aseXML	Schema
ResponsePayload	string, maxLength value="20"	simple	MeterDataManagement_r36
PayloadContent	xsd:anyType, nillable="true"	element	MeterDataManagement_r36

Field	Restrictions	aseXML	Schema
RecordCount	xsd:integer totalDigits value="10", minOccurs="0"	RecordCount	Common_r41

## ServiceRequestID

Purpose: Used to define the Remote service request ID.

Field	Restrictions	aseXML	Schema
ServiceRequestID	string, maxLength value="15"	simple	MeterDataManagement_r36

## TransactionCode

Field	Restrictions	aseXML	Schema
TransactionCode	xsd:string enumerated list (see Table 8)	simple	MeterDataManagement_r36

Table 8 TransactionCode list

Add Meter or Register	Technical Data Change	Special Read
Customer Transfer	Remove Meter	On Request



## UserDefData

Purpose: Defines the User definition entries.

Field	Restrictions	aseXML	Schema
UserDef1...UserDef10	minOccurs="0"	complex	MeterDataManagement_r36

## UserDefinition

Purpose: Identify a remote service ID reference.

Field	Restrictions	aseXML	Schema
UserDefinition	xsd:string, maxLength value="240"	simple	MeterDataManagement_r36

# One Way Notification

Purpose: Enables participants to send information or messages to other participants in a single transaction for one or more NMIs via CSV or XML for:

6.
  - tariff changes
  - metering changes
  - planned interruptions
  - notification of a service order to a notified party

References:

- [B2B Procedure: One Way Notification Process](#)
- [MeterDataManagement\\_r36.xsd](#)
- [B2B Guide](#)

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ase="urn:aseXML:r41" >
- <Header>
  <From>ACTEWM</From>
  <To>ACTEWP</To>
  <MessageID>B2BM162278323450</MessageID>
  <MessageDate>2021-06-04T15:07:14.0+10:00</MessageDate>
  <TransactionGroup>OWNP</TransactionGroup>
  <Priority>Medium</Priority>
  <Market>NEM</Market>
</Header>
- <Transactions>
  - <Transaction transactionID="B2BM16227832350" transactionDate="2021-06-04T15:07:14.0+10:00">
    - <OneWayNotification version="r25">
      <CSVNotificationDetail Name="NTN">TESTING</CSVNotificationDetail>
    </OneWayNotification>
  </Transaction>
</Transactions>
</ase:aseXML>
```

# Business processes

## All transactions

Step	Business item	aseXML	Who
1.	Send OneWayNotification Send PlannedInterruptionNotification Send MeterFaultandIssueNoification Send SharedFuseNotification Send NoticeOfMeteringWorks Send NotifiedParty	OneWayNotification PlannedInterruptionNotification MeterFaultAndIssueNotification SharedFuseNotification NoticeOfMeteringWorks NotifiedParty	Initiator
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	RaiseBusinessAccept/Reject	OWN BusinessAccept/Reject	Recipient

# Transactions

## OneWayNotification

Purpose	Transaction Group	Version	Use
Enables participants to send information or messages to other participants in a single transaction for one or more NMIs via CSV or XML.	OWNP	r25	optional

Business field	Restrictions	aseXML	Schema
OneWayNotification	Transaction with CSV payload. See <a href="#">B2B Procedure: One Way Notification Process</a> .	Transaction	OneWayNotification_r41
InitiatorID	Mandatory	PartyIdentifier	Common_r41
RecipientID	Mandatory	PartyIdentifier	Common_r41
TransactionGroup	Mandatory	NotificationPayload	OneWayNotification_r41
Priority	Mandatory, Enumerated value = "Low" See <a href="#">B2B Technical Delivery Specification</a>	Priority	Common_r41
CSVNotificationDetail	CSV data containing a single CSVNotificationDetail payload.	CSVDataWithName	Common_r41

# Planned Interruption Notification

Purpose	Transaction Group	Version	Use
Notification of a planned interruption	OWNX	r41	optional

Business field	Restrictions	aseXML	Schema
PlannedInterruption Notification	PlannedInterruption Notification	Transaction	Transactions_r38
NMI	Mandatory	NMIStandingData/NMI	Common_r41
ServiceOrderNumber	minOccurs="0"	UniqueIdentifier	OneWayNotification_r41
NMIChecksum	Not relevant	NMI/NMIChecksum	Common_r41
StartDate	Mandatory	xsd:date	<b>B2B Procedure: Technical Delivery Specification</b>
StartTime	Mandatory xsd:time (hh:mm:ss.sss+hh:mm)	element	<b>B2B Procedure: Technical Delivery Specification</b>
EndDate	Optional xsd:date (ccyymmdd)	element	<b>B2B Procedure: Technical Delivery Specification</b>
Duration	Mandatory	Duration	OneWayNotification_r41

Business field	Restrictions	aseXML	Schema
ReasonForInter	Mandatory maxLength value="50", xsd:string	ReasonForInter	ElectricityEnum erations
Notes	Mandatory if ReasonForInter = 'Other', otherwise Optional	NotificationNotes	OneWayNotific ation_r41

```
- <xsd:complexType name="PlannedInterruptionNotification">
  - <xsd:sequence>
    <xsd:element name="NMI" type="NMI"/>
    <xsd:element name="ServiceOrderNumber" type="UniqueIdentifier" minOccurs="0"/>
    <xsd:element name="StartDate" type="xsd:date"/>
    <xsd:element name="StartTime" type="xsd:time"/>
    <xsd:element name="EndDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="Duration" type="Duration"/>
    <xsd:element name="ReasonForInter" type="ReasonForInter" minOccurs="0"/>
    <xsd:element name="Notes" type="NotificationNotes" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r41" default="r41" use="optional"/>
</xsd:complexType>
```

## MeterFaultAndIssueNotification

Purpose	Transaction Group	Version	Use
Notification of a meter fault or issue	OWNX	r41	optional

Business field	Restrictions	aseXML	Schema
MeterFaultAndIssueN otification	MeterFaultAndIssueN otification	Transaction	Transactions_r38
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Not relevant	NMI/NMIChecksum	Common_r41

Business field	Restrictions	aseXML	Schema
Date	Mandatory xsd:date (ccyymmdd)	DateIdentified	<b>B2B Procedure: Technical Delivery Specification</b>
StartDate	Optional xsd:date (ccyymmdd)	element	<b>B2B Procedure: Technical Delivery Specification</b>
StartTime	Optional xsd:time (hh:mm:ss.sss+hh:m m) minOccurs="0"	element	<b>B2B Procedure: Technical Delivery Specification</b>
EndDate	Optional xsd:date (ccyymmdd) minOccurs="0"	element	<b>B2B Procedure: Technical Delivery Specification</b>
Duration	Optional minOccurs="0"	Duration	OneWayNotification_r41
SupplyOn	Mandatory	YesNo	Common_r41
SupplyOff	Mandatory if SUPPLYON = No, otherwise Not relevant minOccurs="0"	SupplyOff	ElectricityEnumerations
MeterSerialNumber	Optional minOccurs="0"	Meters/ElectricityMeter s	Electricity_r41
ReasonForNotice	Optional	ReasonForNotice	ElectricityEnumerations
Notes	Mandatory when ReasonForInter = 'Other', otherwise Optional minOccurs="0"	NotificationNotes	OneWayNotification_r41

# SharedFuseNotification

Purpose	Transaction Group	Version	Use
Used to inform a Recipient of any new or changed Shared Fuse Arrangements for a Connection Point.  Includes the date the Shared Fuse Arrangement was determined and a value indicating the shared fuse status for the Connection Point (identified by the NMI)	OWNX	r43	optional

Business field	Restrictions	aseXML	Schema
NMI	Mandatory	NMIStandingData/NMI	OneWayNotification_r43
NMIChecksum	Optional	NMI/NMIChecksum	OneWayNotification_r43
IdentifiedDate	Mandatory	NMI/IdentifiedDate	OneWayNotification_r43
SharedIsolationPointFlag	Mandatory	NMI/SharedIsolationPointFlag	OneWayNotification_r43

# NoticeOfMeteringWorks

Purpose	Transaction Group	Version	Use
Advise metering works performed	OWNX	r36	optional

Business field	Restrictions	aseXML	Schema
NoticeOfMeteringWorks	NoticeOfMeteringWorks	Transaction	OneWayNotification_r41



Business field	Restrictions	aseXML	Schema
NomwID	Mandatory	NoticeOfWorksID	OneWayNotification_r41
NMI	Mandatory	NMIStandingData/NMI	Common_r41
NMIChecksum	Not relevant	NMI/NMIChecksum	Common_r41
WorkType	Mandatory	WorkType	ElectricityEnumerations
FieldWorkDateTi me	Mandatory xsd:dateTime (ccyy- mm- ddThh:mm:ss.sss+hh: mm)	WorksDetail	OneWayNotification_r41
CustomerClassifi cationCode	Mandatory	CustomerClassificationCode	Common_r41
EnergisationStat us	Mandatory	EnergisationStatus	ElectricityEnumerations
PrimaryVoltage	Mandatory	PrimaryVoltage	ElectricityEnumerations
Latitude	Required	GeographicCoordinate	Common_r41
Longitude	Required	GeographicCoordinate	Common_r41
ParticipantID	Mandatory	PartyIdentifier	Common_r41
TotalInstalledMet ers	Mandatory	WorksDetail	OneWayNotification_r41
MeterSerialNumb er	Mandatory if a meter is installed, otherwise Not relevant	MeterSerialNumber	Common_r41
SupplyPhase	Mandatory if a meter is installed, otherwise Not relevant	SupplyPhase	Electricity_r41

Business field	Restrictions	aseXML	Schema
GeneralSupply	Mandatory if a meter is installed, otherwise Not relevant	YesNo	Common_r41
ControlledLoad	Mandatory if a meter is installed, otherwise Not relevant	YesNo	Common_r41
GenerationType	Mandatory if a meter is installed, otherwise Not relevant	Escalation	ElectricityEnumerations
TotalInstalledNetworkDevices	Mandatory	WorksDetail	OneWayNotification_r36
NetworkDeviceNumber	Mandatory if a network device is installed, otherwise Not relevant	NetworkDevices	Electricity_r41
NetworkDeviceLocation	Mandatory for each installed network device, otherwise Not relevant	NetworkDevices	Electricity_r41
ControlEquipmentNumber	Not relevant if customer owned, otherwise Required	ControlEquipmentSerialNumber	Electricity_r41
ControlEquipmentType	Required for each ControlEquipmentNumber, otherwise Not relevant	ControlEquipmentType	ElectricityEnumerations
ControlChannel	Required for each ControlEquipmentNumber, otherwise Not relevant	ControlChannel	Electricity_r41
ControlConnectedMeterNumber	Required for each ControlEquipmentNumber, if it is associated with a meter, otherwise Not relevant	MeterSerialNumber	Common_r41

Business field	Restrictions	aseXML	Schema
TransformerNumber	Not relevant if a transformer is not installed, otherwise Mandatory	ControlEquipmentSerialNumber	Electricity_r41
TransformerType	Not relevant if a Transformer is not installed, otherwise Mandatory	InstrumentTransformerType	ElectricityEnumerations
TransformerRatio	Not relevant if a Transformer is not installed, otherwise Mandatory	MeterTransformerRatio	Electricity_r41
TransformerConnectedMeterNumber	Required	MeterSerialNumber	Common_r41
TotalRemovedMeters	Required	WorksDetail	OneWayNotification_r41
TotalRemovedOther	Required	WorksDetail	OneWayNotification_r41
RemovedEquipmentNumber	Mandatory or Not relevant when: - No meter is removed or repurposed - No equipment number identified.	If removed equipment Type is a network Device: DeviceSerialNumber	Electricity_r41
		If removed equipment Type is a control equipment: ControlEquipmentSerialNumber	Electricity_r41
		If removed equipment Type is a meter/MeterSerialNumber	Common_r41
		If removed equipment Type is an instrument transformer: InstrumentTransformerSerialNumber	Electricity_r41

Business field	Restrictions	aseXML	Schema
RemovedEquipmentType	Mandatory for each RemovedEquipmentNumber, otherwise Not relevant	RemovedMeteringEquipment	OneWayNotification_r41
RemovedRegister	Mandatory if the RemovedEquipmentType is a Basic Meter, otherwise Not relevant	MeterRegisterIdentifier	Electricity_r41
RemovedMeterReading	Mandatory if the RemovedEquipmentType: <ul style="list-style-type: none"> <li>- Is a Basic Meter</li> <li>- Is a Basic Meter repurposed and left onsite.</li> </ul> Otherwise Not relevant	RegisterIndexValue	Electricity_36
Notes	Optional minOccurs="0"	NotificationNotes	OneWayNotification_r41

## NotifiedParty

Purpose	Transaction Group	Version	Use
Submit advice about service order progression to notified parties.	NPNX	r41	optional

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r41">
  - <Header>
    <From>ACTEWM</From>
    <To>ACTEWMP</To>
    <MessageID>B2BM1628572444787000</MessageID>
    <MessageDate>2021-08-10T15:14:04.0+10:00</MessageDate>
    <TransactionGroup>NPNX</TransactionGroup>
    <Priority>Medium</Priority>
    <Market>NEM</Market>
  </Header>
  - <Transactions>
    - <Transaction transactionID="B2BT1628572444787001" transactionDate="2021-08-10T15:14:04.0+10:00">
      - <NotifiedParty version="r36">
        - <ServiceOrder>
          <NMI>BK00000050</NMI>
          - <ServiceOrderType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="r36" xsi:type="ase:ElectricityServiceOrderType">
            <WorkType workSubType="Allocate NMI">Supply Service Works</WorkType>
          </ServiceOrderType>
          <ServiceOrderNumber>TEST*465666677</ServiceOrderNumber>
        </ServiceOrder>
        <ServiceRequestor>8768yuyuy</ServiceRequestor>
        <ServiceProvider>98979070</ServiceProvider>
        <ScheduledDate>2021-07-21</ScheduledDate>
        <ActualDateTime>2021-06-01T10:10:10.0+10:00</ActualDateTime>
        <NotificationStatus>SO Requested</NotificationStatus>
      - <RefTransaction>
        - <TransAckNotified status="Reject" receiptID="OR-REC-1234" receiptDate="2107-01-01T12:00:00+10:00" initiatingTransactionID="TX-TXN-1234">
          - <Event>
            <Code description="Recipient not responsible for the supplied NMI MIRN status">1923</Code>
            <KeyInfo>4hoi4oj2</KeyInfo>
            <Context>To</Context>
          </Event>
        </TransAckNotified>
      </RefTransaction>
    </NotifiedParty>
  </Transaction>
</ase:aseXML>
```

Business field	Restrictions	aseXML	Schema
NotifiedParty	NotifiedParty	Transaction	OneWayNotification_r41
InitiatorID	Mandatory	/Header/From PartyIdentifier	Common_r41
SORecipientID	Mandatory	/Header/To PartyIdentifier	Common_r41
NMI	Mandatory	ServiceOrder/ServiceOrderHeader/NMIStandingData/NMI	Common_r41
NMIChecksum	Not relevant	NMI/NMIChecksum	Common_r41
ServiceOrderID	Mandatory	UniqueIdentifier	Common_r41
ServiceOrderType	Mandatory	ServiceOrderTypeBase	ServiceOrder_r41
ServiceOrderSubType	Mandatory	ServiceOrderSubType	Electricity_r41
ScheduledDate	Mandatory, xsd:date (ccyymmdd)	element	OneWayNotification_r36

Business field	Restrictions	aseXML	Schema
ActualDateAndTime	Required, xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm) minOccurs="0"	element	OneWayNotification_r36
NotificationStatus	Mandatory, See Usage of NotificationStatus in <a href="#">B2B Procedure: One Way Notification Process</a>	NotificationStatus	OneWayNotification_r36
RefTransaction	See Usage of RefTransaction in <a href="#">B2B Procedure: One Way Notification Process</a>	NotificationPayload	OneWayNotification_r36

## OWN BusinessAccept/Reject Codes for CSV Payload

Business field	Restrictions	aseXML	Schema
Status	xsd:string enumerated list	TransactionStatus	Acknowledgement_r15

## OWN Business Reject – Event Block for CSV Payload

Business field	Restrictions	aseXML	Schema
EventCode	Mandatory See <a href="#">B2B Procedure: One Way Notification Process</a>	EventCode	Events_r41

Business field	Restrictions	aseXML	Schema
KeyInfo	Optional or Not relevant If populated with a number, it is the number within the NotificationDetail where the event occurred. If the field is not populated, it refers to the aseXML transaction, not a specific line within the data.	EventKeyInfo	Events_r41
Context	Optional or Not relevant If KeyInfo is populated, this is a copy of the line where the event was found. If the line is longer than the field size, fully populate starting from the first character of the line.	EventContext	Events_r41
Explanation	Mandatory if the Business Event requires an explanation, otherwise optional xsd:string unlimited chars, minOccurs="0" See <a href="#">B2B Procedure: One Way Notification Process</a>	Explanation	Events_r41

## OWN BusinessAccept/Reject data for XML Payload

Business field	Restrictions	aseXML	Schema
EventCode	Mandatory See <a href="#">B2B Procedure: One Way Notification Process</a>	EventCode	Events_r41

Business field	Restrictions	aseXML	Schema
KeyInfo	<p>Mandatory</p> <p>In response to:</p> <ul style="list-style-type: none"> <li>- A NoticeOfMeteringWorks, the NomwID of the transaction being accepted or rejected.</li> <li>- A NotifiedParty transaction, the ServiceOrderID that the notification relates to.</li> <li>- A PlannedInterruptionNotification or MeterFaultAndIssueNotification, the NMI of the transaction being accepted or rejected.</li> </ul>	EventKeyInfo	Events_r41
Context	<p>Optional</p> <p>If KeyInfo is populated, this is a copy of the line where the event was found. If the line is longer than the field size, fully populate starting from the first character of the line.</p>	EventContext	Events_r41
Explanation	<p>Mandatory if the Business Event requires an explanation, otherwise optional</p> <p>xsd:string unlimited chars, minOccurs="0"</p> <p>See <a href="#">B2B Procedure: One Way Notification Process</a></p>	Explanation	Events_r41



# Basic types

## NoticeOfWorksID

Purpose – Provide unique notification ID.

Business field	Restrictions	aseXML	Schema
NoticeOfWorksID	maxLength value="12" xsd:string	simple	OneWayNotification_r41

## NotificationNotes

Purpose – Provide notification notes.

Field	Restrictions	aseXML	Schema
NotificationNotes	maxLength value="240" xsd:string ≤ 240 chars	simple	OneWayNotification_r41

## NotificationStatus

Purpose – Status description carried by notified party transaction.

Field	Restrictions	aseXML	Schema
NotificationStatus	maxLength value="30" xsd:string ≤ 30 chars enumerated list (see Table 9)	simple	OneWayNotification_r41

Table 9 NotificationStatus list

Accepted by Notified Party

SO Completion

Notified Party Stopped

SO Rejected

Rejection by Notified Party

SO Requested

## Duration

Purpose – Identify simple duration of time in hours and minutes.

Detail – Duration of time in HH:MM format as an alternative to using duration Type.

Field	Restrictions	aseXML	Schema
Duration	maxLength value="5", xsd:string ≤ 5 chars	simple	OneWayNotification_r41

## RemovedMeteringEquipments

Purpose – Parent container holding the list of removed metering equipment.

Field	Restrictions	aseXML	Schema
RemovedMeteringEquipments	maxOccurs="unbounded"	RemovedMeteringEquipment	OneWayNotification_r41

# RemovedMeteringEquipment

Purpose – Define the structure of removed equipment.

Field	Restrictions	aseXML	Schema
RemovedMeteringEquipment	sequence	complex	OneWayNotification_r41
RemovedEquipmentType	element	MeterEquipmentType	ElectricityEnumerations
MeteringEquipment	element	NMISTandingData	Common_r41

# NewEquipment

Purpose – Provide numbers on new Metering equipment installed.

Field	Restrictions	aseXML	Schema
NewEquipment	sequence	complex	OneWayNotification_r41
InstalledControlEquipment	minOccurs="0"	NMISTandingData	Common_r41
InstalledMeterEquipment	minOccurs="0"	ElectricityMeter	Electricity_r41
InstalledNetworkDevices	minOccurs="0"	NetworkDevices	Electricity_r41
InstalledTransformers	minOccurs="0"	ElectricityMeter	Electricity_r41

# WorksDetail

Purpose: Defines the work details for installed or removed meter equipment.

Field	Restrictions	aseXML	Schema
WorksDetail	sequence	complex	OneWayNotification_r41
WorkType	element	WorkType	ElectricityEnumerations
FieldWorkCompleteDateTim e	xsd:dateTime	element	OneWayNotification_r41
TotalInstalledMeters	minOccurs="0" xsd:integer	element	OneWayNotification_r41
TotalInstalledNetworkDevice s	minOccurs="0" xsd:integer	element	OneWayNotification_r41
TotalInstalledControlEquipm ent	minOccurs="0" xsd:integer	element	OneWayNotification_r41
TotalInstalledTransformers	minOccurs="0" xsd:integer	element	OneWayNotification_r41
TotalRemovedMeters	minOccurs="0" xsd:integer	element	OneWayNotification_r41
TotalRemovedOther	minOccurs="0" xsd:integer	element	OneWayNotification_r41
NewMeterEquipment	minOccurs="0"	NewEquipment	OneWayNotification_r41
RemovedMeteringEquipmen ts	minOccurs="0"	RemovedMeteringEq uipments	OneWayNotification_r41

# NotificationPayload

Purpose: Provide the parent holder for payload content.

Field	Restrictions	aseXML	Schema
NotificationPayload	choice	complex	OneWayNotification_r41
TransactionNotified	element	Transaction	Transactions_r38
TransAckNotified	element	TransactionAcknowledgement	Transactions_r38
MsgAckNotified	element	MessageAcknowledgement	Transactions_r38

# Service Order

Purpose: Define the structure of Service Order transactions to extend the aseXML.

## 7 References:

- [B2B Procedure: Service Order Process](#)
- [ServiceOrder\\_r41.xsd](#)
- [B2B Procedure Technical Specification](#)
- [B2B Guide](#)

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r41 http://www.nemmco.com.au/aseXML/schemas/r41/aseXML_r41.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ase="urn:aseXML:r41">
- <Header>
  <From>POOLNZL</From>
  <To>POOLTAS</To>
  <MessageID>B2BM1628819090021000</MessageID>
  <MessageDate>2021-08-13T11:44:50.0+10:00</MessageDate>
  <TransactionGroup>SORD</TransactionGroup>
  <Priority>Medium</Priority>
  <Market>NEM</Market>
</Header>
- <Transactions>
  - <Transaction transactionID="B2BT1628819090059000" transactionDate="2021-08-13T11:44:50.0+10:00">
    - <ServiceOrderRequest version="r41" actionType="Cancel">
      - <ServiceOrder>
        - <Address>
          - <AustralianAddress>
            - <UnstructuredAddress>
              <AddressLine>Test</AddressLine>
            </UnstructuredAddress>
            <SuburbOrPlaceOrLocality>Alonta north</SuburbOrPlaceOrLocality>
            <StateOrTerritory>VIC</StateOrTerritory>
            <PostCode>3000</PostCode>
          </AustralianAddress>
          <ServiceOrderNumber>ADI00012304A</ServiceOrderNumber>
        </ServiceOrder>
        - <RequestData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="ase:ElectricityServiceOrderDetails">
          - <SpecialInstructions>
            <CommentLine>TEst</CommentLine>
          </SpecialInstructions>
          <CustomerConsultationRequired>true</CustomerConsultationRequired>
        </RequestData>
      </ServiceOrderRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

## Business processes

### Service Order Request and Response

Step	Business item	aseXML	Who
1.	Send ServiceOrderRequest	ServiceOrderRequest	Initiator

Step	Business item	aseXML	Who
2.	Send BusinessReceipt	MessageAcknowledgement	Recipient
3.	Send BusinessAcceptance/Rejection	SO BusinessAcceptance/Rejection	Recipient
4.	Send ServiceOrderResponse	ServiceOrderResponse	Recipient
5.	Send BusinessReceipt	MessageAcknowledgement	Recipient
6.	Send BusinessAcceptance/Rejection	SO BusinessAcceptance/Rejection	Recipient

# Transactions

## ServiceOrderRequest

Purpose	Transaction Group	Version	Use
Submit Service Order Request to the Service Provider	SORD	r_41	optional

Business field	Restrictions	aseXML	Schema
ServiceOrderRequest	ServiceOrderRequest	Transaction	ServiceOrder_r41

Business field	Restrictions	aseXML	Schema
ActionType	Mandatory default=New	ActionType	ServiceOrder_r41
ServiceOrderID	Mandatory If the ActionType = Cancel, must be a previously sent number. Otherwise (ActionType = New or Replace). Must be a new (unused) number, unique for the Initiator/Recipient combination.	ServiceOrder/ServiceOrderHeader/ServiceOrderNumber/UniqueIdentifier	Common_r41
InitiatorID	Mandatory	/Header/FromPartyIdentifier	Common_r41
RecipientID	Mandatory	/Header/ToPartyIdentifier	Common_r41
NotifiedPartyID	Optional or Not relevant when sending to Notified Parties separately. <b>See B2B Procedure: Service Order Process.</b> Not relevant for Cancelled.	NotifiedParties/NotifiedPartyID/PartyIdentifier	OneWayNotification_r41
ServiceOrderType	Not relevant for Cancelled, otherwise Mandatory.	ServiceOrder/ServiceOrderHeader/ServiceOrderTypeBase/ServiceOrderType	ServiceOrder_r41 Electricity_r41
ServiceOrderSubType	Mandatory for all Service Orders except: Special Read Miscellaneous Cancel For more details, <b>See B2B Procedure: Service Order Process.</b>	ServiceOrder/ServiceOrderHeader/ServiceOrderTypeBase/ServiceOrderSubType	ServiceOrder_r41 Electricity_r41
De-EnergisationReason	Not relevant	De-energisationReason	ElectricityEnumerations



Business field	Restrictions	aseXML	Schema
ConfirmedDe-energisation	Mandatory for De-energisation type. Not relevant for other types or Cancelled.	xsd:Boolean	Common_r41
ServiceTime	Not relevant for Cancelled.	ServiceTimeType	Electricity_r36
NMI	Mandatory	ServiceOrder/ServiceOrderHeader/NMI	ServiceOrder_r41 Common_r41
NMIChecksum	Not relevant	ServiceOrder/ServiceOrderHeader/NMI/NMIChecksum	ServiceOrder_r41 Common_r41
MeterSerialNumber	Not relevant If requested work affects all meters, see <b>B2B Guide</b> . For a Cancel Request.	ElectricityMeters/ElectricityMeter/SerialNumber/MeterSerialNumber	Common_r41
ServiceOrderAddress	Not relevant	ServiceOrder/ServiceOrderHeader/Address	ServiceOrder_r41 ClientInformation_r36
HazardDescription	Not relevant for: Cancelled Supply Service Works Allocate NMI Supply Service Works Tariff Change	ServicePoint/SiteHazard	Common_r41
AccessDetails	Not relevant for: Cancelled Supply Service Works Allocate NMI Supply Service Works Tariff Change Required for Miscellaneous Otherwise Mandatory	ServicePoint/AccessDetail	Common_r41

Business field	Restrictions	aseXML	Schema
LifeSupport	Mandatory Not relevant for Cancelled	YesNo	Common_r41
FormReference	Not relevant for: Cancelled Supply Service Works Temporary Isolation – All Supply Service Works Tariff Change Re-energisation De-energisation Special Read Optional for Miscellaneous	License/DocumentReferenceType  See the Service Paperwork table in the B2B Guide.	Electricity_r41
FormNumber	If the form listed in FormReference is numbered, populate this field with the form number. Not relevant for: Cancelled Supply Service Works Temporary Isolation – All Supply Service Works: Tariff Change Re-energisation De-energisation Special Read Optional for Miscellaneous	License/DocumentReferenceType	Electricity_r41

Business field	Restrictions	aseXML	Schema
SafetyCertificateId	<p>Not relevant for:</p> <p>Cancelled</p> <p>Supply Service Works Temporary Isolation – All</p> <p>Supply Service Works Supply Abolishment</p> <p>Supply Service Works: Tariff Change</p> <p>De-energisation</p> <p>Special Read</p> <p>Optional for Miscellaneous</p>	License/SafetyCertificate Type/ID/ShortUniqueIdentifier	Common_r41
SafetyCertificateMethodSent	<p>Not relevant for:</p> <p>Cancelled</p> <p>Supply Service Works Temporary Isolation – All</p> <p>Supply Service Works Supply Abolishment</p> <p>Supply Service Works: Tariff Change</p> <p>De-energisation</p> <p>Special Read</p> <p>Optional for Miscellaneous</p>	License/SafetyCertificate Type/MethodSent	Common_r41
MeteringSafetyCertificateID	<p>Required for:</p> <p>Supply Service Works Establish T/TP/P</p> <p>Supply Service Works Supply Alteration</p> <p>Not relevant for Cancelled.</p>	License/SafetyCertificate Type/ID/ShortUniqueIdentifier	Common_r41

Business field	Restrictions	aseXML	Schema
MeteringSafetyCertificateMethodSent	Required for: Supply Service Works Establish T/TP/P  Supply Service Works Supply Alteration  Not relevant for Cancelled.	License/SafetyCertificate Type/MethodSent	Common_r41
SpecialInstructions	Mandatory if: <ul style="list-style-type: none"> <li>- A value of Yes is used in CustomerConsultation Required.</li> <li>- A value of Other Multi-phase is used in SupplyPhases</li> <li>- A value of Other is used in MeteringRequired.</li> <li>- If ActionType = Replace.</li> <li>- It is necessary to support exceptional arrangements for high priority ServiceOrderRequests</li> <li>.</li> <li>- ServiceOrderType = Supply Service Works and any tariff or metering requirements are not already provided.</li> <li>- ServiceOrderType = Metering Service Works and any tariff, metering requirements or any other special requirements must be advised.</li> <li>- ServiceTime = Non-Business Hours.</li> </ul>	RequestData/ServiceOrderRequestData/SpecialComments /CommentLine	ServiceOrder_r41 Common_r41

Business field	Restrictions	aseXML	Schema
ServiceOrderCo-ordinationRequired	<p>Yes = if the Initiator has arranged co-ordination for the work completion.</p> <p>No = if no arrangement is made.</p> <p>Not relevant for Cancelled.</p> <p>If SpecialInstructions provided then Required.</p>	YesNo	Common_r41
Co-ordinatingContactName	<p>Mandatory if ServiceOrderCo-ordinationRequired = Yes.</p> <p>Not relevant for Cancelled.</p>	Co-ordinatingContactDetail/ CustomerDetail/PersonName	CustomerDetails_r41 ClientInformation_r36
Co-ordinatingContactTelephoneNumber	<p>You can provide a maximum of three telephone numbers.</p> <p>Mandatory if ServiceOrderCo-ordinationRequired = Yes.</p> <p>Not relevant for Cancelled.</p>	Co-ordinatingContactDetail/ CustomerDetail/AustralianPhoneNumber	CustomerDetails_r41 ClientInformation_r36
CustomerConsultationRequired	<p>Yes = if the Recipient is requested to consult with the customer for the completion of work.</p> <p>If Yes, provide the reason for the need to consult in SpecialInstructions.</p> <p>No = no consultation arrangements required.</p> <p>Not relevant for Cancelled.</p>	xsd:Boolean	Common_r41

Business field	Restrictions	aseXML	Schema
CustomerContactName	Mandatory if CustomerConsultationRequired = Yes. Not relevant for Cancelled.	CustomerDetail/PersonName	CustomerDetails_r41 ClientInformation_r36
CustomerContactTelephoneNumber	You can provide a maximum of three telephone numbers. Mandatory if CustomerConsultationRequired = Yes Not relevant for Cancelled.	CustomerDetail/AustraliaPhoneNumber	CustomerDetails_r41 ClientInformation_r36
InitiatorContactName	Not relevant for Cancelled.	CustomerDetail/PersonName	CustomerDetails_r41 ClientInformation_r36
InitiatorContactTelephoneNumber	You can provide a maximum of three telephone numbers. Mandatory if CustomerContactName exists. Not relevant for Cancelled.	CustomerDetail/AustraliaPhoneNumber	CustomerDetails_r41 ClientInformation_r36
ScheduledDate	Mandatory Not relevant for Cancelled.	AppointmentDetail	Common_r41
AppointmentReference	Not relevant for Cancelled.	AppointmentDetail/UniqueIdentifier	Common_r41
CustomersPreferredDateAndTime	Optional if an AppointmentReference is provided. Mandatory for Re-energisation if the ServiceOrderSubType is Retrospective Move-In. Not relevant for Cancelled.	AppointmentDetail/AppointmentDateTime	Common_r41

Business field	Restrictions	aseXML	Schema
RP	Mandatory for Supply Service Works Allocate NMI. Not relevant for Cancelled.	RoleIdentifier	Common_r41
MDP	Mandatory for Supply Service Works Allocate NMI. Not relevant for Cancelled.	RoleIdentifier	Common_r41
MPB	Mandatory for Supply Service Works Allocate NMI. Not relevant for Cancelled.	RoleIdentifier	Common_r41
NMIStatusCode	Mandatory for: Supply Service Works Establish T/TP/P Supply Service Works Supply Alteration Optional for Miscellaneous. Not relevant for Cancelled.	NMIStatusCode	Common_r41
EmbeddedNetworkParentName	Required for Supply Service Works Allocate NMI Not relevant for Cancelled.	EmbeddedNetworkIdentifier	Electricity_r36

Business field	Restrictions	aseXML	Schema
CustomerType	<p>Enumerated list.</p> <p>Mandatory for:</p> <ul style="list-style-type: none"> <li>Supply Service Works Allocate NMI</li> <li>Supply Service Works Establish T/TP/P</li> <li>Supply Service Works Supply Alteration</li> </ul> <p>Required for Metering Service Works Install Meter.</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	CustomerType	CustomerDetails_r41
AverageDailyLoad	<p>Mandatory for:</p> <ul style="list-style-type: none"> <li>Supply Service Works Allocate NMI</li> <li>Supply Service Works Establish T/TP/P</li> <li>Supply Service Works Supply Alteration</li> <li>Metering Service Works Install Meter</li> </ul> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	AveragedDailyLoad	Electricity_r36



Business field	Restrictions	aseXML	Schema
MaximumDemand	Required for: Supply Service Works Allocate NMI Supply Service Works Establish T/TP/P Supply Service Works Supply Alteration Supply Service Works Tariff Change Metering Service Works Install Meter Optional for Miscellaneous. Not relevant for Cancelled.	MeterDemand	Electricity_r36
REC-Name	Mandatory for: Supply Service Works Establish T/TP/P Supply Service Works Supply Alteration Metering Service Works Install Meter Required for Supply Service Works Allocate NMI. Optional for Miscellaneous. Not relevant for Cancelled.	CustomerDetail/PersonName	CustomerDetails_r41 ClientInformation_r36

Business field	Restrictions	aseXML	Schema
REC-BusinessName	<p>Mandatory for:</p> <ul style="list-style-type: none"> <li>Supply Service Works Establish T/TP/P</li> <li>Supply Service Works Supply Alteration</li> <li>Metering Service Works Install Meter</li> </ul> <p>Required for Supply Service Works Allocate NMI.</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	CustomerDetail/BusinessName	CustomerDetails_r41
REC-Telephone	<p>You can provide a maximum of three telephone numbers.</p> <p>Mandatory for:</p> <ul style="list-style-type: none"> <li>Supply Service Works Establish T/TP/P</li> <li>Supply Service Works Supply Alteration</li> <li>Metering Service Works Install Meter</li> </ul> <p>Required for Supply Service Works Allocate NMI.</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	CustomerDetail/AustralianPhoneNumber	CustomerDetails_r41 ClientInformation_r36

Business field	Restrictions	aseXML	Schema
REC-ID	<p>Mandatory for:</p> <p>Supply Service Works Establish T/TP/P</p> <p>Supply Service Works Supply Alteration</p> <p>Metering Service Works Install Meter</p> <p>Required for Supply Service Works Allocate NMI.</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	License/LicenseNumber	Electricity_r36
REC-AttendanceRequired	<p>Mandatory for:</p> <p>Supply Service Works Establish T/TP/P</p> <p>Supply Service Works Supply Alteration</p> <p>Metering Service Works Install Meter</p> <p>Required for Supply Service Works Allocate NMI.</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	xsd:Boolean	Common_r41
InstallationType	<p>Mandatory for:</p> <p>Supply Service Works Establish T/TP/P</p> <p>Supply Service Works Supply Alteration</p> <p>Required for Supply Service Works Allocate NMI.</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	InstallationType	Electricity_r41

Business field	Restrictions	aseXML	Schema
SupplyPhases	Mandatory for: Supply Service Works Allocate NMI Supply Service Works Establish T/TP/P Supply Service Works Supply Alteration Metering Service Works Install Meter Metering Service Works Exchange Meter Optional for Miscellaneous. Not relevant for Cancelled.	SupplyPhase	Electricity_r41
MeteringRequired	Mandatory for: Metering Service Works Install Meter Metering Service Works Exchange Meter Optional for Miscellaneous. Not relevant for Cancelled.	MeteringType	Electricity_r36

Business field	Restrictions	aseXML	Schema
OffPeakRequirements	<p>Required for:</p> <ul style="list-style-type: none"> <li>Supply Service Works Allocate NMI</li> <li>Supply Service Works Establish T/TP/P</li> <li>Supply Service Works Supply Alteration</li> <li>Supply Service Works Tariff Change</li> <li>Metering Service Works Install Meter</li> <li>Metering Service Works Exchange Meter</li> </ul> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	ServiceOrderRequestData/SpecialInstructions/SpecialComments	Common_r41
MeterInstallCode	<p>Required for:</p> <ul style="list-style-type: none"> <li>Supply Service Works Tariff Change</li> <li>Metering Service Works Install Meter</li> <li>Metering Service Works Exchange Meter</li> </ul> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	MeterInstallationTypeCode	Electricity_r41

Business field	Restrictions	aseXML	Schema
SwitchingServiceRequired	<p>Required for:</p> <ul style="list-style-type: none"> <li>- Supply Service Works Establish T/TP/P</li> <li>- Supply Service Works Supply Alteration</li> <li>- Metering Service Works Install Meter</li> <li>- Metering Service Works Install Controlled Load</li> </ul> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	SwitchingServiceRequired	Electricity_r36
ProposedTariff	<p>Mandatory for:</p> <ul style="list-style-type: none"> <li>- Supply Service Works Tariff Change</li> <li>- Metering Service Works Install Meter</li> <li>- Metering Service Works Exchange Meter</li> </ul> <p>Required for Metering Service Works Meter Reconfiguration</p> <p>Optional for Miscellaneous.</p> <p>Not relevant for Cancelled.</p>	NetworkTariffCode	NetworkBilling_r34

## ServiceOrderResponse

Purpose	Transaction Group	Version	Use
Submit Service Order completion details to the Retailer	SORD	r_36	optional

Business field	Restrictions	aseXML	Schema
ServiceOrderResponse	ServiceOrderResponse	Transaction	ServiceOrder_r41
ResponseType	Mandatory default = Closure	ResponseType	ServiceOrder_r3641
ServiceOrderID	Mandatory Must match the ServiceOrder ID in the ServiceOrderRequest.	ServiceOrderHeader/ServiceOrderNumber/UniqueIdentifier	ServiceOrder_r41 Common_r41
InitiatorID	Mandatory	/Header/From PartyIdentifier	Common_r41
RecipientID	Mandatory	/Header/To PartyIdentifier	Common_r41
NMI	Mandatory for all responses except: - Responses Service Work ServiceOrderRequest with a sub type of Allocate NMI. - ServiceOrderStatus of "Not Completed".	ServiceOrder/ServiceOrderHeader/NMI	ServiceOrder_r41 Common_r41
NMIChecksum	Optional	ServiceOrder/ServiceOrderHeader/NMI/NMIChecksum	ServiceOrder_r41 Common_36
ServiceOrderAddress	Mandatory if the NMI is not provided in the Response.	ServiceOrder/ServiceOrderHeader/Address	ServiceOrder_r41 ClientInformation_r36
ServiceOrderStatus	Mandatory	ServiceOrderStatus	ServiceOrder_r41
ExceptionCode	Mandatory if ServiceOrderStatus = Not Completed or Partially Completed.	SORDResponseCode	Electricity_r36

Business field	Restrictions	aseXML	Schema
ActualDateAndTime	Mandatory	xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	ServiceOrder_r41
SpecialNotes	Mandatory if: - ExceptionCode = Other, Recipient Cancellation, or Documentation Not Provided. - ServiceOrderStatus = Partially Completed or Not Completed.	NotificationData/ServiceOrderNotificationData/SpecialNotes/SpecialComments/CommentLine	ServiceOrder_r41 Common_r41
RecipientContactName	Optional	ContactDetail/CustomerDetail/PersonName  The ContactDetail is derived from the customerNotificationMethod	CustomerDetails_r41 ClientInformation_r36
RecipientContactTelephoneNumber	Optional	ContactDetail/CustomerDetail/AustralianPhoneNumber  The ContactDetail is derived from the customerNotificationMethod	CustomerDetails_r41 ClientInformation_r36
RecipientReference	Required Not necessarily unique	AppointmentDetail/UniqueIdentifier	Common_r41
ProductCode	Mandatory	Product	CustomerDetails_r41



# SO BusinessAcceptance/Rejection

Business field	Restrictions	aseXML	Schema
EventCode	Mandatory See <a href="#">B2B Procedure: Service Order Process</a>	EventCode	Events_r41
KeyInfo	Optional or Not relevant If populated with a number, it is the number within the NotificationDetail where the event occurred. If the field is not populated, it refers to the aseXML transaction, not a specific line within the data.	EventKeyInfo	Events_r41
Context	Optional If KeyInfo is populated, this is a copy of the line where the event was found. If the line is longer than the field size, fully populate starting from the first character of the line.	EventContext	Events_r41
Explanation	Mandatory if the Business Event requires an explanation, otherwise optional xsd:string unlimited chars, minOccurs="0" See <a href="#">B2B Procedure: One Way Notification Process</a>	Explanation	Events_r41

## Abstract types

### ServiceOrderNotificationData

Field	Restrictions	aseXML	Schema
ServiceOrderNotificationData	sequence	Complex	ServiceOrder_r41

Field	Restrictions	aseXML	Schema
SpecialNotes	minOccurs="0"	SpecialComments	Common_r41
NMIStandingData	minOccurs="0"	NMIStandingData	Common_r41

## ServiceOrderRequestData

Field	Restrictions	aseXML	Schema
ServiceOrderRequestData	sequence	Complex	ServiceOrder_r41
SpecialInstructions	minOccurs="0"	SpecialComments	Common_r41
NMIStandingData	minOccurs="0"	NMIStandingData	Common_r41

## ServiceOrderTypeBase

Purpose: Elements using this Type have another aseXML Type (either within the aseXML Schema or explicitly in the aseXML file using an xsi:Type attribute).

Types currently based on this Type are:

- ServiceOrderTypeGas-Gas Schema.
- ServiceOrderTypeElectricity- Electricity Schema.

Field	Restrictions	aseXML	Schema
ServiceOrderType Base	Abstract="true"	ServiceOrderType/ServiceOrderSubType	ServiceOrder_r36

# Support types

## ActionType

Purpose: Defines a list of valid update statuses.

Field	Restrictions	aseXML	Schema
ActionType	xsd:string enumerated list (see Table 10)	simple	ServiceOrder_r36

Table 10 ActionType list

New                      Update                      Cancel                      Replace

## SpecialReadReasonCode

Purpose - Defines a list of valid Special Read reason codes

Field	Restrictions	aseXML	Schema
SpecialReadReasonCode	xsd:string enumerated list (see Table 11)	simple	ServiceOrder_r36

Table 11 SpecialReadReasonCode list

Account Investigation

Check Read

Change of Customer

Final and Opening Read

Change of Retailer

Final Read

Final Read for Disconnection on Non-Payment

Read Following Disconnection for Non-Payment

Final Read Stickered

Sticker Removed

Opening Read

Other

## ResponseType

Field	Restrictions	aseXML	Schema
ResponseType	xsd:string enumerated list (see Table 12)	simple	ServiceOrder_r36

Table 12 ResponseType list

Appointment

Closure

Initial

## ServiceOrderHeader

Field	Restrictions	aseXML	Schema
ServiceOrder	sequence/choice	Complex	ServiceOrder_r36
NMI	element	NMIStandingData/NMI	Common_r41
Address	element	<b>Address</b>	ClientInformation_r36
ServiceOrderType	minOccurs="0"	ServiceOrderTypeBase	ServiceOrder_r36
ServiceOrderNumber	minOccurs="0"	UniquelIdentifier	Common_r41

Field	Restrictions	aseXML	Schema
ServiceProviderReference	minOccurs="0"	UniquelIdentifier	Common_r41

## ServiceOrderStatus

Purpose: Defines a list of valid service order status codes.

Field	Restrictions	aseXML	Schema
ServiceOrderStatus	xsd:string enumerated list (see Table 13)	simple	ServiceOrder_r36

Table 13 ServiceOrderStatus list

Completed

Partially Completed

Not Completed

# Client Information

Purpose: Define client information.

**8** Detail – Provides the definitions necessary for handling addresses, people’s names, and telephone numbers within aseXML based on the [Australian Standard AS4590](#).

References:

- [B2B Procedure Technical Specification](#).
- [Australian Standard AS4590](#).

## Main types

### Address

Purpose: Define an address capable of representing both domestic and International addresses.

Field	Restrictions	aseXML	Schema
Address	Structured format where available, otherwise unstructured. For more details, see <a href="#">B2B Procedure Technical Specification</a> .	complex	ClientInformation_r36
AustralianAddress	See AustralianAddress	AustralianAddress	ClientInformation_r36
InternationalAddress	See InternationalAddress	InternationalAddress	ClientInformation_r36

# AustralianAddress

Purpose: Define an Australian address.

Detail: The Australian address format allows for either a structured or an unstructured physical address, with locality, state, and postcode always carried as structured elements.

Field	Restrictions	aseXML	Schema
Australian Address	choice	complexAustralianAddress	ClientInformation_r36
Structured Address	minOccurs="0"	AustralianStructuredAddressComponents	ClientInformation_r36
UnstructuredAddress	See UnstructuredAddress	UnstructuredAddress	ClientInformation_r36
SuburbOrPlaceOrLocality	nillable="true", minOccurs="0"	AustralianSuburbOrPlaceOrLocality	ClientInformation_r36
StateOrTerritory	See AustralianStateOrTerritory	AustralianStateOrTerritory	ClientInformation_r36
PostCode	See AustralianPostCode	AustralianPostCode	ClientInformation_r36
DeliveryPointIdentifier	nillable="true", minOccurs="0"	AustralianDeliveryPointIdentifier	ClientInformation_r36

# AustralianPhoneNumber

Purpose: Define an Australian telephone service number.

Field	Restrictions	aseXML	Schema
AustralianPhoneNumber	sequence	complex	ClientInformation_r36
Prefix	element	AustralianTelephonePrefix	ClientInformation_r36
Number	element	AustralianTelephoneNumber	ClientInformation_r36
ServiceComment	minOccurs="0"	AustralianTelephoneService Comment	ClientInformation_r36
serviceType	use="required"	AustralianTelephoneService Type	ClientInformation_r36

# InternationalAddress

Purpose: Define an International address.

Detail: AS4590 provides differing definitions of some address components depending on whether they are internal or external to Australia. To provide maximum validation of Australian addresses, whilst supporting International formats, aseXML provides different formats for both.

Because of the wide variety of International formats, aseXML only defines an unstructured format. It follows the same structure used for Australian addresses, allowing the definition of structured International addresses in the future.

Field	Restrictions	aseXML	Schema
InternationalAddress	sequence	complex	ClientInformation_r36
UnstructuredAddress	See UnstructuredAddress	UnstructuredAddress	ClientInformation_r36
CountryCode	minOccurs="0"	InternationalCountryCode	ClientInformation_r36



Field	Restrictions	aseXML	Schema
PostCode	minOccurs="0"	InternationalPostCode	ClientInformation_r36

## PersonName

Purpose: Define a person's name.

Detail: By default, a legal name is assumed.

Field	Restrictions	aseXML	Schema
PersonName	1 name only	PersonNameType	ClientInformation_r36
PersonNameTitle	See PersonNameTitle	PersonNameTitle	ClientInformation_r36
PersonNameFamily	See PersonNameFamily	PersonNameFamily	ClientInformation_r36
PersonNameGiven	see PersonNameGiven	PersonNameGiven	ClientInformation_r36
ContactName	See PersonName	PersonName	ClientInformation_r36

## UnstructuredAddress

Field	Restrictions	aseXML	Schema
UnstructuredAddress	sequence	choice	ClientInformation_r36
AddressLine	nillable="true", maxOccurs="3"	AustralianAddressLine	ClientInformation_r36
AddressLine	maxOccurs="6"	InternationalAddressLine	ClientInformation_r36

# Support types

## AustralianAddressLine

Purpose: Define a line of unstructured Australian address information.

Detail: An unstructured format allows for legacy or non-specific address/location information to be carried along with structured addresses within a common address container.

Field	Restrictions	aseXML	Schema
AustralianAddressLine	maxLength value="80",xsd:string ≤ 80 chars	simple	ClientInformation_r36

## AustralianBuildingOrPropertyName

Purpose: Define a building or property name.

Field	Restrictions	aseXML	Schema
AustralianBuildingOrPropertyName	minLength value="1", maxLength value="30", xsd:string 1-30 chars	simple	ClientInformation_r36

## AustralianDeliveryPointIdentifier

Purpose: Define an Australian delivery point identifier.

Field	Restrictions	aseXML	Schema
AustralianDeliveryPointIdentifier	minInclusive value="10000000", maxInclusive value="99999999"	simple	ClientInformation_r36

## AustralianFlatOrUnitNumber

Purpose: Define flat or unit number.

Detail: Alphabetic characters are permitted allowing for “100A” etc.

Field	Restrictions	aseXML	Schema
AustralianFlatOrUnitNumber	String with pattern value="[p{L}\p{N}\p{P}\s]{1,7}"	simple	ClientInformation_r36

## AustralianFloorOrLevelNumber

Purpose: Define floor or level number.

Detail: Alphabetic characters are permitted.

Field	Restrictions	aseXML	Schema
AustralianFloorOrLevelNumber	string with pattern value="[p{L}\p{N}\p{P}\s]{1,5}"	simple	ClientInformation_r36

## AustralianHouseNumber

Purpose: Define house number.

Detail: Note that any alphabetic information should be included in the house number suffix.

Field	Restrictions	aseXML	Schema
HouseNumber	maxInclusive value="99999", xsd:integer, 0-99999 inclusive	simple	ClientInformation_r36

## AustralianHouseNumberSuffix

Purpose: Define a house number suffix.

Detail: Enter any non-numeric information.

Field	Restrictions	aseXML	Schema
AustralianHouseNumberSuffix	string with pattern value="[p{L}\p{N}]{1}"	simple	ClientInformation_r36

## AustralianLocationDescriptor

Purpose: Define location descriptor.

Detail: This is a catch-all field for non-standard address information.

Field	Restrictions	aseXML	Schema
AustralianLocationDescriptor	xsd:string with pattern value="[p{L}\p{N}\p{P}\s]{1,30}"	simple	ClientInformation_r36

## AustralianLotNumber

Purpose: Define a lot number.

Field	Restrictions	aseXML	Schema
LotNumber	xsd:string with pattern value="[p{L}\p{N}\p{P}\s]{1,6}"	simple	ClientInformation_r36

## AustralianPostalDeliveryNumberPrefix

Purpose: Define a postal delivery number prefix.

Field	Restrictions	aseXML	Schema
AustralianPostalDeliveryNumberPrefix	string with pattern value="[p{Lu}]{1,3}"	simple	ClientInformation_r36

## AustralianPostalDeliveryNumberSuffix

Purpose: Define a postal delivery number suffix.

Field	Restrictions	aseXML	Schema
AustralianPostalDeliveryNumberSuffix	string with pattern value="[p{Lu}]{1,3}"	simple	ClientInformation_r36

# AustralianPostalDeliveryNumberValue

Purpose: Define a postal delivery number.

Field	Restrictions	aseXML	Schema
AustralianPostalDeliveryNumberValue	maxInclusive value="99999", xsd:integer, 0-99999 incl.	simple	ClientInformation_r36

# AustralianPostCode

Purpose: Define an Australian postcode.

Field	Restrictions	aseXML	Schema
AustralianPostCode	string pattern value="[\p{N}]{4}"	simple	ClientInformation_r36

# AustralianStateOrTerritory

Purpose: Define Australian states and territories.

Field	Restrictions	aseXML	Schema
AustralianStateOrTerritory	xsd:string enumerated list (see Table 14)	simple	ClientInformation_r36

Table 14 AustralianStateOrTerritory list

AAT

ACT

NSW

NT

QLD

TAS

WA

SA

VIC

## AustralianStreetName

Purpose: Define a street name.

Field	Restrictions	aseXML	Schema
AustralianStreetName	xsd:string with pattern value="[p{L}\p{N}]s\-[1,30]"	simple	ClientInformation_r36

## AustralianStructuredAddressComponents

Purpose: Define the Australian address fields provided as part of a structured address.

Detail: Use when you are providing a complete address. If you are only providing part of an address, use the AustralianStructuredAddressPartialComponents type.

Field	Restrictions	aseXML	Schema
AustralianStructuredAddressComponents	sequence	complex	ClientInformation_r36
BuildingOrPropertyName	nillable="true" minOccurs="0" maxOccurs="2"	AustralianBuildingOrPropertyName	ClientInformation_r36
FlatOrUnit	minOccurs="0"	FlatOrUnit	ClientInformation_r36

Field	Restrictions	aseXML	Schema
FloorOrLevel	minOccurs="0"	FloorOrLevel	ClientInformation_r36
House	minOccurs="0" maxOccurs="2"	House	ClientInformation_r36
LocationDescriptor	nillable="true" minOccurs="0"	AustralianLocationDescriptor	ClientInformation_r36
Lot	minOccurs="0"	Lot	ClientInformation_r36
PostalDelivery	minOccurs="0"	PostalDelivery	ClientInformation_r36
Street	minOccurs="0" maxOccurs="2"	Street	ClientInformation_r36



# AustralianStructuredAddressPartialComponents

Purpose: Define the fields of an Australian address, provided as part of a structured address.

Detail: See the definition of AustralianAddress for more details. All fields are optional in this type to allow for providing portions of an address. The AustralianStructuredAddressComponents type restricts the content where a complete address is exchanged.

## AustralianSuburbOrPlaceOrLocality

Purpose: Define a suburb or locality.

Field	Restrictions	aseXML	Schema
AustralianSuburbOrPlaceOrLocality	maxLength value="46", xsd:string ≤ 46 chars	simple	ClientInformation_r36

## AustralianTelephoneNumber

Purpose: Define an Australian telephone number.

Field	Restrictions	aseXML	Schema
AustralianTelephoneNumber	maxLength value="15" xsd:string ≤ 15 chars	simple	ClientInformation_r36

# AustralianTelephoneServiceComment

Purpose: Define an Australian telephone service.

Field	Restrictions	aseXML	Schema
AustralianTelephoneServiceComment	maxLength value="40" xsd:string ≤ 40 chars	simple	ClientInformation_r36

# AustralianTelephoneServiceType

Purpose: Define Australian telephone service types.

Detail: AS4590 indicates that service types must be agreed between parties. This list extends as new services are defined.

Field	Restrictions	aseXML	Schema
AustralianTelephoneServiceType	xsd:string enumerated list (see Table 15)	simple	ClientInformation_r36

Table 15 AustralianTelephoneServiceType list

Fixed Voice                      Mobile Voice                      Fax                      Modem                      Pager

# AustralianTelephonePrefix

Purpose: Define an Australian telephone number.

Field	Restrictions	aseXML	Schema
AustralianTelephonePrefix	maxLength value="4" xsd:string ≤ 4 chars	simple	ClientInformation_r36

# EmailAddress

Purpose: Define an email address.

Field	Restrictions	aseXML	Schema
EmailAddress	xsd:string pattern value="^[^@]+@[^\.]+\..+"	simple	ClientInformation_r36

# FloorOrLevel

Field	Restrictions	aseXML	Schema
FloorOrLevel	minOccurs="0"	complex sequence	ClientInformation_r36
FloorOrLevelType	See AustralianFloorOrLevelType	AustralianFloorOrLevelType	Enumerations_r36
FloorOrLevelNumber	See AustralianFloorOrLevelNumber	AustralianFloorOrLevelNumber	ClientInformation_r36

# FlatOrUnit

Field	Restrictions	aseXML	Schema
FlatOrUnit	minOccurs="0"	Complex sequence	ClientInformation_r36
FlatOrUnitType	nillable="true, minOccurs="0"	FlatOrUnit	ClientInformation_r36
FlatOrUnitNumber	nillable="true, minOccurs="0"	AustralianFlatOrUnitNumber	ClientInformation_r36

## House

Field	Restrictions	aseXML	Schema
House	sequence minOccurs="0" maxOccurs="2"	complex	ClientInformation_r36
HouseNumber	See AustralianHouseNumber	AustralianHouseNumber	ClientInformation_r36
HouseNumberSuffix	See AustralianHouseNumberSuffix	AustralianHouseNumberSuffix	ClientInformation_r36

## InternationalAddressLine

Purpose: Define a line of unstructured International address information.

Detail: Given the wide variety of international addresses, the aseXML address format currently supports only unstructured international addresses.

Field	Restrictions	aseXML	Schema
InternationalAddressLine	maxLength value="80",xsd:string, ≤ 80 chars	simple	ClientInformation_r36

## InternationalCountryCode

Purpose: Define the international country code.

Field	Restrictions	aseXML	Schema
InternationalCountryCode	string pattern value="[p{Lu}]{1,3}"	simple	ClientInformation_r36

# InternationalPostCode

Purpose: Define an international postcode.

Detail: To provide better validation of Australian postcodes, the definition for international postcodes is separate from Australian postcodes.

Field	Restrictions	aseXML	Schema
InternationalPostCode	string pattern value="[\p{L}\p{N}]{1,12}"	simple	ClientInformation_r36

# Lot

Field	Restrictions	aseXML	Schema
lot	minOccurs="0"	complex sequence	ClientInformation_r36
lotNumber	nillable="true" minOccurs="0"	AustralianLotNumber	ClientInformation_r36

# PersonNameFamily

Purpose: Define a person's family name.

Field	Restrictions	aseXML	Schema
PersonNameFamily	xsd:string maxLength value="40"	simple	ClientInformation_r36

## PersonNameGiven

Purpose: Define a person's given name.

Field	Restrictions	aseXML	Schema
PersonNameGiven	xsd:string maxLength value="40"	simple	ClientInformation_r36

## PersonNameSuffix

Purpose: Define a person's name suffix.

Field	Restrictions	aseXML	Schema
PersonNameSuffix	xsd:string maxLength value="12"	simple	ClientInformation_r36

## PersonNameTitle

Purpose: Define a person's title.

Field	Restrictions	aseXML	Schema
PersonNameTitle	xsd:string maxLength value="12"	simple	ClientInformation_r36

## PersonNameType

Purpose: Define the types of people's names.

Field	Restrictions	aseXML	Schema
nameType	xsd:string enumerated list (see Table 16)	simple	ClientInformation_r36

Table 16 PersonNameType list

AKA	LGL	STG	XFR
BTH	MDN	TRB	
	PRF		

## PostalDelivery

Field	Restrictions	aseXML	Schema
PostalDelivery	sequence minOccurs="0"	Complex	ClientInformation_r36
PostalDeliveryType	nillable="true" minOccurs="0"	AustralianPostalDeliveryType	Enumerations
PostalDeliveryNumber	nillable="true" minOccurs="0"	PostalDeliveryNumber	ClientInformation_r36

## PostalDeliveryNumber

Field	Restrictions	aseXML	Schema
PostalDeliveryNumberPrefix	nillable="true" minOccurs="0"	AustralianPostalDeliveryNumberPrefix	ClientInformation_r36
PostalDeliveryNumberSuffix	nillable="true" minOccurs="0"	AustralianPostalDeliveryNumberValue	ClientInformation_r36

Field	Restrictions	aseXML	Schema
PostalDeliveryNumberValue	nillable="true" minOccurs="0"	AustralianPostalDeliveryNumberSuffix	ClientInformation_r36

## Street

Field	Restrictions	aseXML	Schema
StreetName	nillable="true" minOccurs="0"	AustralianStreetName	ClientInformation_r36
StreetSuffix	nillable="true" minOccurs="0"	AustralianStreetSuffix	Enumerations
StreetType	nillable="true" minOccurs="0"	AustralianStreetType	Enumerations



# Common

Purpose: Define data types common across multiple transactions and fuels.

**9** Details: Contains the definitions of common types used across multiple transactions within aseXML. These types are not fuel specific.

References:

- [Common\\_r41.xsd](#)

## Abstract types

### GeographicCoordinate

Purpose: Coordinates specification.

Field	Restrictions	aseXML	Schema
Latitude	minOccurs="0"	Latitude	Common_r36
Longitude	minOccurs="0"	Longitude	Common_r36

# NMIStandingData

Purpose: Basis for fuel specific NMI standing data.

The Type ase:NMIStandingData is abstract, so elements using this Type have another aseXML, either within the aseXML Schema or explicitly in the aseXML file using an xsi:type attribute.

Field	Restrictions	aseXML	Schema
NMIStandingData	abstract="true"	complex	Common_r41
NMI	minOccurs="0"	NMIStandingData/NMI	Common_r41
effectiveDateTime	Optional, xsd:dateTime (ccyy-mm-ddThh:mm:ss.sss+hh:mm)	attribute	Common_r41

# NMITransactionBase

Field	Restrictions	aseXML	Schema
NMITransactionBase	sequence	complex	Common_r41
NMI	minOccurs="0", abstract="true"	NMIStandingData/NMI	Common_r41

# NotifiedParties

Field	Restrictions	aseXML	Schema
NotifiedPartyID	minOccurs="0" maxOccurs="unbounded"	PartyIdentifier	OneWayNotification_r36

# Basic types

## AccessDetail

Purpose: Classification of high-voltage distribution line feeding property.

Field	Restrictions	aseXML	Schema
AccessDetail	xsd:string maxLength value="160"	simple	Common_r41

## AppointmentDateTime

Field	Restrictions	aseXML	Schema
AppointmentDateTime	sequence	complex	Common_r41
Date	xsd:date (ccyymmdd)	element	Common_r36
Time	minOccurs="0" xsd:time (hh:mm:ss.sss+hh:mm)	element	Common_r36

## AppointmentDetail

Field	Restrictions	aseXML	Schema
AppointmentDetail	sequence	complex	Common_r41
Preferred	minOccurs="0"	AppointmentDateTime	Common_r41
Reference	minOccurs="0"	Uniquelidentifier	Common_r41
ScheduledDate	minOccurs="0"	xsd:date	Common_r41

Field	Restrictions	aseXML	Schema
CustomerNotificationMethod	minOccurs="0"	CustomerNotificationMethod	Common_r41
CustomerAgreedStartDate	minOccurs="0"	xsd:date	Common_r41
CustomerAgreedEndDate	minOccurs="0"	Xsd:date	Common_r41

```
- <xsd:complexType name="AppointmentDetail">
  - <xsd:annotation>
    <xsd:documentation>Schema - Appointments</xsd:documentation>
  </xsd:annotation>
  - <xsd:sequence>
    <xsd:element name="Reference" type="UniqueIdentifier" minOccurs="0"/>
    <xsd:element name="ScheduledDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="Preferred" type="AppointmentDateTime" minOccurs="0"/>
    <xsd:element name="CustomerNotificationMethod" type="CustomerNotificationMethod" minOccurs="0"/>
    <xsd:element name="CustomerAgreedStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="CustomerAgreedEndDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

## CustomerClassificationCode

Field	Restrictions	aseXML	Schema
CustomerClassificationCode	xsd:string maxLength value="20" minLength value="1" whitespace value="collapse"	simple	Common_r41

## GasMeterDogCode

Field	Restrictions	aseXML	Schema
GasMeterDogCode	xsd:string enumerated list (see Table 17)	simple	Common_r41

Table 17 GasMeterDogCode list

Bluff	Dog Caution	Dog OK	Friendly	No Dog	Savage	Tied
-------	-------------	--------	----------	--------	--------	------

# GasMeterPosition

Field	Restrictions	aseXML	Schema
GasMeterPosition	xsd:string enumerated list (see Table 18)	simple	Common_r41

Table 18 GasMeterPosition list

BA	CP	FS	OB	SR	US
BG	DR	FV	PA	TO	WH
BH	FA	FW	PO	UB	
BR	FD	GA	PY	UC	
BV	FF	GR	RS	UF	
BW	FH	KC	SH	UL	
BY	FL	KI	SK	UP	
CE	FR	LS	SP	UR	

# HazardCode

Purpose: To define a list of valid hazard codes. No codes currently defined.

Field	Restrictions	aseXML	Schema
HazardCode	xsd:string For the list of codes, see <a href="#">B2B Procedure: Customer and Site Details Notification</a> .	simple	Common_r41

## HazardDescription

Field	Restrictions	aseXML	Schema
HazardDescription	maxLength value="80"xsd:string ≤ 80 chars (for examples, see Table 19)	simple	Common_r41

Table 19 HazardDescription examples

Customer Reports No Hazard	Customer Caution	Not Known To Initiator
Dog	Electrical Safety Issue	
Electric Fence	Asbestos FuseAsbestos Board	

## MeterSerialNumber

Purpose: MSATS Data Model Column – MeterSerial.

Field	Restrictions	aseXML	Schema
MeterSerialNumber	maxLength value="12" xsd:string ≤ 12 chars	simple	Common_r41

## MethodSent

Field	Restrictions	aseXML	Schema
MethodSent	xsd:string enumerated list (see Table 20)	simple	Common_r41

Table 20 MethodSent list

Faxed

Email

Online

OnSite

## PartyIdentifier

Purpose: Identify a communicating party within aseXML.

Detail: Allows identification of an entity involved in the energy industry.

Field	Restrictions	aseXML	Schema
PartyIdentifier	There is no default. If the context attribute is not provided, the PartyIdentifier is interpreted according to the rules for the market where it is used.	complex	Common_r41
context	Allows differentiation between identification mechanisms for parties.  xsd:string enumeration value="ABN" indicates the value is treated as an Australian Business Number.	simple	Common_r41
description	xsd:string	simple	Common_r41

## RoleIdentifier

Purpose: Identify the roles a party might perform.

Detail: Assists identification of the correct role. The mapping between codes and descriptions is provided to participants via the Table Replication transaction exchanges. MSATS Data Model Column – RoleID.

Field	Restrictions	aseXML	Schema
RoleIdentifier	xsd:string ≤ 4 chars maxLength value="4"	simple	Common_r41

## SafetyCertificateType

Field	Restrictions	aseXML	Schema
SafetyCertificateType	sequence	complex	Common_r41
ID	minOccurs="0"	ShortUniquelIdentifier	Common_r41
MethodSent	enumerated list	MethodSent	Common_r41

## ShortUniquelIdentifier

Field	Restrictions	aseXML	Schema
ShortUniquelIdentifier	minLength value="1" maxLength value="15 xsd:string 1-15 chars	simple	Common_r41

## ServicePoint

Purpose: Define the service point address and other properties.

Field	Restrictions	aseXML	Schema
ServicePoint	sequence	complex	Common_r36
Address	minOccurs="0"	Address	ClientInformation_r36
AccessDetails	minOccurs="0"	AccessDetail	Common_r41
Hazard	minOccurs="0", maxOccurs="unbounded"	SiteHazard	Common_r41
MelwayGridReference	string, minOccurs="0", maxLength value="9"	element	Common_r41



Field	Restrictions	aseXML	Schema
DogCode	minOccurs="0"	GasMeterDogCode	Common_r41
MeterPosition	minOccurs="0"	GasMeterPosition	Common_r41

## SiteHazard

Field	Restrictions	aseXML	Schema
SiteHazard	sequence	complex	Common_r41
Code	minOccurs="0"	HazardCode	Common_r41
Description	enumerated list	HazardDescription	Common_r41

## Container types

### RoleAssignment

Purpose - container type for one or more role assignments.

Field	Restrictions	aseXML	Schema
RoleAssignment	maxOccurs="unbounded"	complex	Common_r41
Party	nillable="true" minOccurs="0"	PartyIdentifier	Common_r41
Role	element	RoleIdentifier	Common_r41

Field	Restrictions	aseXML	Schema
FromDate	xsd:date (ccyymmdd), minOccurs="0"	sequence	Common_r41
ToDate	xsd:date (ccyymmdd), minOccurs="0"	sequence	Common_r41

## RoleAssignments

Purpose: container Type for one or more role assignments.

Field	Restrictions	aseXML	Schema
RoleAssignments	sequence	RoleAssignment	Common_r41

## CSV types

### CSVRequestFormat

Field	Restrictions	aseXML	Schema
CSVRequestFormat	sequence	complex	Common_r41
CSVData	xsd:string nillable="true"	element	Common_r41
RecordCount	xsd:integer 10	RecordCount	Common_r41

## RecordCount

Purpose: Defines the record count data Type as a string of numeric characters in format 10.

Field	Restrictions	aseXML	Schema
RecordCount	xsd:integer value="10"	simple	Common_r41

## CSVDataWithName

Field	Restrictions	aseXML	Schema
CSVDataWithName	xsd:string	complex	Common_r41
name	maxLength value="10"	NonZeroLengthString	Common_r41
Description	maxLength value="80"	NonZeroLengthString	Common_r41

## Generic types

### NonZeroLengthString

Purpose: Base for generic string type that enforces non-whitespace content.

Field	Restrictions	aseXML	Schema
NonZeroLengthString	minLength value="1" whitespace value="collapse" xsd:string >= 1	simple	Common_r41

# YesNo

Purpose: Yes/No indication.

Detail: Values are case sensitive.

Field	Restrictions	aseXML	Schema
YesNo	xsd:string enumerated list: - Yes - No	simple	Common_r41

# Simple types

## CommentLine

Field	Restrictions	aseXML	Schema
CommentLine	xsd:string maxLength value=240	simple	Common_r41

# Priority

Purpose: Priority indication.

Detail: These enumerations are case sensitive.

Field	Restrictions	aseXML	Schema
Priority	xsd:string enumerated list: - Low - Medium - High	simple	Common_r41

# SpecialComments

Purpose: Defines the comments in the CommentLine.

Field	Restrictions	aseXML	Schema
SpecialComments	xsd:string ≤ 240 chars minOccurs="0"	complex	Common_r41
CommentLine	maxOccurs="3"	CommentLine	Common_r41

# UniquelIdentifier

Purpose: Uniquely identify the associated data element or attribute.

Detail: Transaction identifiers are not necessarily globally unique; they are only unique to a particular sender. The length allows the use of UUIDs as transaction identifiers, guaranteeing global uniqueness.

Field	Restrictions	aseXML	Schema
UniquelIdentifier	xsd:string 1–36 chars	simple	Common_r41

# NMI related types

## Latitude

Purpose: Provide geographic location coordinate.

Detail: Geographic latitude. The angular measurement north or south of the equator in decimal degrees (to 7 decimal places). Angles south of the equator (from Australia) are represented as negative values, for example -37.8886755.

Field	Restrictions	aseXML	Schema
Latitude	totalDigits value="9" fractionDigits value="7" xsd:decimal	simple	Common_r41

## Longitude

Purpose: Provide geographic location coordinate.

Detail: Geographic longitude. The angular measurement east or west of the prime meridian in decimal degrees (to 7 decimal places). Angles east of the prime meridian (from Australia) are represented as positive values, for example +145.1410361.

Field	Restrictions	aseXML	Schema
Longitude	totalDigits value="10" fractionDigits value="7" xsd:decimal	simple	Common_r41

# NMI

Purpose: National Metering Identifier with optional checksum detail.

Detail: Used to identify electricity metering points.

Field	Restrictions	aseXML	Schema
NMI	extension	complex	Common_r41
NMIBase	xsd:string ≤ 10 chars	NMIBase	Common_r41
checksum	xsd:integer 0–9	NMI/NMIChecksum	Common_r41

# NMIBase

Purpose: Helper Type to assist in the definition of the NMI Type.

Field	Restrictions	aseXML	Schema
NMIBase	xsd:string ≤ 10 chars	simple	Common_r41

# NMIChecksum

Purpose: Helper Type to assist in the definition of the NMI Type.

Detail: The checksum is a single numeric digit.

Field	Restrictions	aseXML	Schema
NMIChecksum	xsd:integer 0–9	simple	Common_r41

## NMIClassificationCode

Purpose: Identify the broad class where the NMI belongs.

MSATS Data Model Column – NMIClassCode.

Detail: NMI classification often forms the basis for jurisdictional rules.

Field	Restrictions	aseXML	Schema
NMIClassificationCode	maxLength value="8" xsd:string ≤ 8 chars	simple	Common_r41

## NMIStatusCode

Purpose: Status code of portions of NMI Standing Data.

MSATS Data Model Column – NMIStatusCode.

Field	Restrictions	aseXML	Schema
NMIStatusCode	length value="1" xsd:string = 1 char For allowed values, see <a href="#">CATS Procedures: Principles and Obligations</a> .	simple	Common_r41



# Electricity

Purpose - Define electricity specific types and the standing data structure for electricity.

## 10.

References:

- [Electricity\\_r36.xsd](#)

## Basic types

### AveragedDailyLoad

Purpose: The average daily load for a given data steam.

MSATS Data Model Column – AverageDailyLoad.

Field	Restrictions	aseXML	Schema
AveragedDailyLoad	xsd:integer	simple	Electricity_r36

### DirectionIndicator

You can handle this element using the NetworkTariffCode, if so, remove the corresponding data element.

Field	Restrictions	aseXML	Schema
DeviceSerialNumber	maxLength value="12" xsd:string enumerated list: - Import - Export	simple	Electricity_r36

## EmbeddedNetworkIdentifier

Purpose: Identify an embedded network.

MSATS Data Model Column – EmbNetIdCode, EmbNetParent, EmbNetChild.

Field	Restrictions	aseXML	Schema
EmbeddedNetworkIdentifier	maxLength value="10" xsd:string ≤ 10 chars	simple	Electricity_r41

## MeterCommunicationsEquipmentType

MSATS Data Model Column – CommEquipType.

Field	Restrictions	aseXML	Schema
MeterCommunicationsEquipmentType	maxLength value="4" xsd:string ≤ 4 chars	simple	Electricity_r41

## MeterCommunicationsProtocol

MSATS Data Model Column – CommProtocol.

Field	Restrictions	aseXML	Schema
MeterCommunicationsProtocol	maxLength value="50" xsd:string ≤ 50 chars	simple	Electricity_r41

# MeterDataValidations

MSATS Data Model Column – DataValidations

Field	Restrictions	aseXML	Schema
MeterDataValidations	maxLength value="50"xsd:string ≤ 50 chars	simple	Electricity_r41

# MeteringType

Field	Restrictions	aseXML	Schema
MeteringType	xsd:string maxLength value="240"	simple	Electricity_r41

# MeterProgram

MSATS Data Model Column – MeterProgram.

Field	Restrictions	aseXML	Schema
MeterProgram	maxLength value="30" xsd:string ≤ 30 chars	simple	Electricity_r41

# MeterTestCalibrationProgram

MSATS Data Model Column – TestCalibProgrm.

Field	Restrictions	aseXML	Schema
MeterTestCalibrationProgram	maxLength value="50" xsd:string ≤ 50 chars	simple	Electricity_r41

## MeterTestPerformedBy

MSATS Data Model Column – TestPerformedBy.

Field	Restrictions	aseXML	Schema
MeterTestPerformedBy	maxLength value="20" xsd:string ≤ 20 chars	simple	Electricity_r41

## MeterTestResultAccuracy

MSATS Data Model Column – TestResultAccuracy.

Field	Restrictions	aseXML	Schema
MeterTestResultAccuracy	totalDigits value="8" fractionDigits value="5" decimal format 999.99999	simple	Electricity_r41

## MeterTestResultNotes

MSATS Data Model Column – TestResultNotes.

Field	Restrictions	aseXML	Schema
MeterTestResultNotes	maxLength value="50" xsd:string ≤ 50 chars	simple	Electricity_r41

## MeterTransformerType

MSATS Data Model Column – TransformerType.

Field	Restrictions	aseXML	Schema
MeterTransformerType	maxLength value="20" xsd:string ≤ 20 chars	simple	Electricity_r41

# MeterUserAccessRights

MSATS Data Model Column – UserAccessRights.

Field	Restrictions	aseXML	Schema
MeterUserAccessRights	maxLength value="50" xsd:string ≤ 50 chars	simple	Electricity_r41

# RegisterIndexValue

Purpose – Identify Meter Register Index Value.

Detail: Maximum of 15 characters per line.

Field	Restrictions	aseXML	Schema
RegisterIndexValue	maxLength value="15" xsd:string ≤ 15 chars	simple	Electricity_r41

# License types

## DocumentReferenceType

Field	Restrictions	aseXML	Schema
DocumentReferenceType	sequence	complex	Electricity_r41
FormReference	minOccurs="0" xsd:string maxLength value="30"	element	Electricity_r41
FormNumber	minOccurs="0" xsd:string maxLength value="15"	element	Electricity_r41

# License

Purpose: Defines license data structure for the tradesman performing the service.

Field	Restrictions	aseXML	Schema
License	sequence	complex	Electricity_r41
Licensee	minOccurs="0"	PersonName	ClientInformation_r36
BusinessName	minOccurs="0"	BusinessName	CustomerDetails_r41
PhoneNumber	minOccurs="0" maxOccurs="unbounded"	AustralianPhoneNumber	Common_r41
LicenseNumber	minOccurs="0"	LicenseNumber	Electricity_r41
SafetyCertificate	minOccurs="0"	SafetyCertificateType	Common_r41
DocumentReference	minOccurs="0"	DocumentReferenceType	Electricity_r41
AttendanceRequired	minOccurs="0" xsd:boolean	element	Electricity_r41

# LicenseNumber

Purpose - Defines the license number as a restricted string type.

Field	Restrictions	aseXML	Schema
LicenseNumber	xsd:string maxLength value="20"	simple	Electricity_r41

# NMI Basic types

## MeterConstant

MSATS Data Model Column – MeterConstant.

Field	Restrictions	aseXML	Schema
MeterConstant	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

## MeterMeasurementType

MSATS Data Model Column – MeasurementType.

Field	Restrictions	aseXML	Schema
MeterMeasurementType	maxLength value="4" xsd:string ≤ 4 chars	simple	Electricity_r41

## MeterUse

MSATS Data Model Column – MeterUse.

Field	Restrictions	aseXML	Schema
MeterUse	maxLength value="10" xsd:string ≤ 10 chars	simple	Electricity_r41

## NMIDataStreamSuffix

Purpose: Identify a data stream associated with a NMI.

Field	Restrictions	aseXML	Schema
NMIDataStreamSuffix	length value="2" xsd:string = 2 chars	simple	Electricity_r41

## Meter Register types

### CustomerFundedMeter

Purpose: Identifies the customer has funded the purchase of the meter, leading to a reduction in the meter charges allocated to the incumbent retailer. Required for the network bill reconciliation. Also has an impact on contracts offered to customers by prospective retailers.

Field	Restrictions	aseXML	Schema
CustomerFundedMeter	xsd:Boolean	simple	Electricity_r41



## DisplayType

In WA, readings are collected from some customers by means of self-reader cards that have blank dials printed on them mimicking the layout of the meter display. This attribute defines the type of display on the meter and is used to define what style of self-read card is sent to the End-use Customer when a retailer requests a self-read card arrangement. It also helps define the type of screen to display for internet captured readings.

Field	Restrictions	aseXML	Schema
DisplayType	maxLength value="20" minLength value="1" whitespace value="collapse" xsd:string 1–20 chars	simple	Electricity_r41

## KeyCode

Purpose: Identifies the type of key and/or its location to access a meter at a site. Required in standing data as the Franchise Market Retailer still carries responsibility for performing site activities for some areas of the network.

Field	Restrictions	aseXML	Schema
KeyCode	maxLength value="8" minLength value="1" whitespace value="collapse" xsd:string 1–8 chars	simple	Electricity_r41

## MeterAdditionalSiteInformation

MSATS Data Model Column – AddlSiteInfo

Field	Restrictions	aseXML	Schema
MeterAdditionalSiteInformation	maxLength value="100" xsd:string ≤ 100 chars	simple	Electricity_r41

# MeterAssetManagementPlan

MSATS Data Model Column – AssetMgmtPlan

Field	Restrictions	aseXML	Schema
MeterAssetManagementPlan	maxLength value="50" xsd:string ≤ 50 chars	simple	Electricity_r41

# MeterCalibrationTables

MSATS Data Model Column – CalibrationTables.

Field	Restrictions	aseXML	Schema
MeterCalibrationTables	maxLength value="50" xsd:string ≤ 50 chars	simple	Electricity_r41

# MeterControlledLoad

MSATS Data Model Column – ControlledLoad

Field	Restrictions	aseXML	Schema
MeterControlledLoad	xsd:string length value="100"	simple	Electricity_r41

# MeterDataConversion

MSATS Data Model Column – DataConv.

Field	Restrictions	aseXML	Schema
MeterDataConversion	xsd:string ≤ 100 chars	simple	Electricity_r41

# MeterDemand

MSATS Data Model Column – Demand1, Demand2.

Field	Restrictions	aseXML	Schema
MeterDemand	xsd:integer totalDigits value="8"	simple	Electricity_r41

# MeterEstimationInstructions

MSATS Data Model Column – EstInstruct

Field	Restrictions	aseXML	Schema
MeterEstimationInstructions	xsd:string ≤ 50 chars maxLength value="50"	simple	Electricity_r41

# MeterHazard

MSATS Data Model Column – MeterHazard.

Field	Restrictions	aseXML	Schema
MeterHazard	xsd:string ≤ 12 chars maxLength value="12"	simple	Electricity_r41

# MeterInstallationTypeCode

MSATS Data Model Column – MeterInstallCode.

Field	Restrictions	aseXML	Schema
MeterInstallCode	xsd:string ≤ 8 chars maxLength value="8"	simple	Electricity_r41

# MeterLocation

MSATS Data Model Column – MeterLocation.

Field	Restrictions	aseXML	Schema
MeterLocation	xsd:string ≤ 50 chars maxLength value="50"	element	Electricity_r41

# MeterManufacturer

MSATS Data Model Column – MeterManufacturer.

Field	Restrictions	aseXML	Schema
MeterManufacturer	xsd:string ≤ 15 chars maxLength value="15"	simple	Electricity_r41

# MeterModel

MSATS Data Model Column – MeterModel.

Field	Restrictions	aseXML	Schema
MeterModel	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

# MeterPassword

MSATS Data Model Column – Password.

Field	Restrictions	aseXML	Schema
MeterPassword	maxLength value="20" xsd:string ≤ 20 chars	simple	Electricity_r41

# MeterPoint

MSATS Data Model Column – MeterPoint.

Field	Restrictions	aseXML	Schema
MeterPoint	maxLength value="2" xsd:string ≤ 2 chars	simple	Electricity_r41

# MeterReadTypeCode

MSATS Data Model Column – MeterReadType.

Field	Restrictions	aseXML	Schema
MeterReadTypeCode	maxLength value="4" xsd:string ≤ 4 chars	simple	Electricity_r41

# MeterRegisterIdentifier

Purpose: Identifies a register within a meter.

MSATS Data Model Column – RegisterId.

Field	Restrictions	aseXML	Schema
MeterRegisterIdentifier	maxLength value="10", xsd:string ≤ 10 chars	simple	Electricity_r41

# MeterRemotePhoneNumber

MSATS Data Model Column – RemotePhoneNumber.

Field	Restrictions	aseXML	Schema
MeterRemotePhoneNumber	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

# MeterRoute

MSATS Data Model Column – MeterRoute.

Field	Restrictions	aseXML	Schema
MeterRoute	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

# MeterStatusCode

Purpose: Status code of Meter Register Data.

MSATS Data Model Column – MeterStatus.

Field	Restrictions	aseXML	Schema
MeterStatusCode	xsd:string enumerated list: - C - D - R	simple	Electricity_r41

# MeterTransformerLocation

MSATS Data Model Column – TransformerLocation.

Field	Restrictions	aseXML	Schema
MeterTransformerLocation	maxLength value="30" xsd:string ≤ 30 chars	simple	Electricity_r41

# MeterTransformerRatio

MSATS Data Model Column – TransformerRatio.

Field	Restrictions	aseXML	Schema
MeterTransformerRatio	maxLength value="20" xsd:string ≤ 20 chars	simple	Electricity_r41

# SupplyPhase

Purpose: Defines a list of valid supply phase.

Field	Restrictions	aseXML	Schema
SupplyPhase	xsd:string enumerated list (see Table 21)	simple	Electricity_r41

Table 21 SupplyPhase list

1-phase      2-phase      3-phase      Other Multi-phase      Unknown

# Meter Register Identifier types

## HighLowConsumption

Purpose: Used to identify the maximum and minimum expected consumption between readings.

Field	Restrictions	aseXML	Schema
HighLowConsumption	xsd:integer	complex	Electricity_r41
High	xsd:integer	element	Electricity_r41
Low	xsd:integer	element	Electricity_r41



## MeterConsumptionType

Field	Restrictions	aseXML	Schema
MeterConsumptionType	xsd:string enumerated list: - Actual - Cumulative	complex	Electricity_r41

## MeterDialFormat

MSATS Data Model Column – DialFormat

Field	Restrictions	aseXML	Schema
MeterDialFormat	totalDigits value="4" ractionDigits value="2" minInclusive value="0" maxInclusive value="99.99" xsd:string ≤ 50 chars	simple	Electricity_r41

## MeterMultiplier

MSATS Data Model Column – Multiplier.

Field	Restrictions	aseXML	Schema
MeterMultiplier	xsd:decimal	simple	Electricity_r41

## MeterNetworkAdditionalInformation

MSATS Data Model Column – NTAddInfo.

Field	Restrictions	aseXML	Schema
MeterNetworkAdditionalInformation	xsd:string	simple	Electricity_r41

# MeterRegisterStatusCode

MSATS Data Model Column – RegisterIdStatus.

Field	Restrictions	aseXML	Schema
MeterRegisterStatusCode	xsd:string enumerated list: - C - R	simple	Electricity_r41

# MeterTimeOfDay

MSATS Data Model Column – TestResultNotes.

Field	Restrictions	aseXML	Schema
MeterTimeOfDay	maxLength value="10" xsd:string ≤ 10 chars	simple	Electricity_r41

# MeterUnitOfMeasure

MSATS Data Model Column – UnitOfMeasure.

Field	Restrictions	aseXML	Schema
MeterUnitOfMeasure	maxLength value="5" xsd:string ≤ 5 chars	simple	Electricity_r41

# Meter Data Management types

## ElectricityMeterReadData

Field	Restrictions	aseXML	Schema
ElectricityMeterReadData	sequence	complex	Electricity_r41
Read	maxLength value="15" xsd:string	simple	Electricity_r41
ReadDate	xsd:date (ccyymmdd)	element	Electricity_r41
Consumption	totalDigits value="15" fractionDigits value="3" xsd:decimal	element	Electricity_r41

## NMIConfigurationType

Purpose: Identify the broad class where the NMI belongs.

Field	Restrictions	aseXML	Schema
NMIConfigurationType	sequence	complex	Electricity_r41
NMISuffix	maxOccurs="unbounded"	NMIDataStreamSuffix	Electricity_r41

# Service Order types

## ConnectedMeters

Purpose - Parent container for list of connected meters.

Field	Restrictions	aseXML	Schema
SerialNumber	minOccurs="0", maxOccurs="unbounded"	MeterSerialNumber	Electricity_r41

## ControlChannel

Purpose – Identify control equipment channel.

Detail: Maximum of 12 characters per line.

Field	Restrictions	aseXML	Schema
ControlChannel	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

## ControlEquipment

Purpose – Define the structure of control equipment details.

Field	Restrictions	aseXML	Schema
ControlEquipment	sequence	complex	Electricity_r41

Field	Restrictions	aseXML	Schema
ConnectedMeters	minOccurs="0"	ConnectedMeters	Electricity_r41
ControlChannel	minOccurs="0"	ControlChannel	Electricity_r41
ControlEquipmentNumber	minOccurs="0"	ControlEquipmentSerialNumber	Electricity_r41
ControlEquipmentType	minOccurs="0"	ControlEquipmentType	ElectricityEnumerations

## ControlEquipments

Purpose – Parent container for list of control equipment.

Field	Restrictions	aseXML	Schema
ControlEquipments	minOccurs="0"	ControlEquipments	Electricity_r41

## ControlEquipmentSerialNumber

Purpose – Identify control equipment serial number.

Detail: Maximum of 12 characters per line.

Field	Restrictions	aseXML	Schema
ControlEquipmentSerialNumber	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

## DeviceSerialNumber

Purpose – Provide Device Serial Number

Field	Restrictions	aseXML	Schema
DeviceSerialNumber	maxLength value="12" xsd:string	simple	Electricity_r41

## ElectricityMeterRegisterConfiguration

Purpose: container for information relating to multiple electricity meter registers associated with a meter.

Field	Restrictions	aseXML	Schema
ElectricityMeterRegisterConfiguration	sequence	complex	Electricity_r41
Register	maxOccurs="unbounded"	ElectricityMeterRegisterDetail	Electricity_r41

## ElectricityMeterRegisterDetail

Purpose: container for information about a register within an electricity meter.

Field	Restrictions	aseXML	Schema
ConsumptionType	nillable="true" minOccurs="0"	MeterConsumptionType	Electricity_r36
ControlledLoad	nillable="true" minOccurs="0"	MeterControlledLoad	Electricity_r36

Field	Restrictions	aseXML	Schema
Demand1	nillable="true" minOccurs="0"	MeterDemand	Electricity_r36
Demand2	nillable="true" minOccurs="0"	MeterDemand	Electricity_r36
DialFormat	nillable="true" minOccurs="0"	MeterDialFormat	Electricity_r36
DirectionIndicator	nillable="true" minOccurs="0"	DirectionIndicator	Electricity_r36
HighLowConsumption	nillable="true" minOccurs="0"	<b>HighLowConsumption</b>	Electricity_r36
Multiplier	nillable="true" minOccurs="0"	MeterMultiplier	Electricity_r36
NetworkAdditionalInformation	nillable="true" minOccurs="0"	MeterNetworkAdditionalInformation	Electricity_r36
NetworkTariffCode	nillable="true" minOccurs="0"	NetworkTariffCode	NetworkBilling_r34
PreviousReading	nillable="true" minOccurs="0"	ElectricityMeterReadData	Electricity_r36
RegisterID	minOccurs="0"	MeterRegisterIdentifier	Electricity_r36
RegisterIndexValue	nillable="true" minOccurs="0"	RegisterIndexValue	Electricity_r36
Status	nillable="true" minOccurs="0"	MeterRegisterStatusCode	Electricity_r36
Suffix	nillable="true" minOccurs="0"	NMIDataStreamSuffix	Electricity_r36
TimeOfDay	nillable="true" minOccurs="0"	MeterTimeOfDay	Electricity_r36

Field	Restrictions	aseXML	Schema
UnitOfMeasure	nillable="true" minOccurs="0"	MeterUnitOfMeasure	Electricity_r36

## ElectricityServiceOrderDetails

Purpose: Defines the data type for new connection and meter additions and alterationsv36.1. WL. Change LifeSupport is an optional field.

Field	Restrictions	aseXML	Schema
CustomerConsultationRequired		xsd:boolean	Electricity_r41
InstallationType	minOccurs="0"	InstallationType	Electricity_r41
SupplyPhase	minOccurs="0"	SupplyPhase	Electricity_r41
AverageDailyLoad	minOccurs="0"	AverageDailyLoad	Electricity_r41
CustomerType	minOccurs="0"	CustomerType	Electricity_r41
MeteringType	minOccurs="0"	MeteringType	Electricity_r41
OffPeakRequirements	minOccurs="0"	SpecialComments	Electricity_r41
MaximumDemand	minOccurs="0"	MeterDemand	Electricity_r41
ServiceTime	minOccurs="0"	ServiceTimeType	Electricity_r41
SwitchingServiceRequired	minOccurs="0"	SwitchingServiceRequired	Electricity_r41
ConfirmedDe-energisation	minOccurs="0"	xsd:boolean	Electricity_r41
License	minOccurs="0"	License	Electricity_r41
MeterLicense	minOccurs="0"	License	Electricity_r41



Field	Restrictions	aseXML	Schema
De-energisationReason	minOccurs="0"	De-energisationReason	Electricity_r41
LifeSupport	minOccurs="0"	YesNo	Electricity_r41
Co-ordinationRequired	minOccurs="0"	YesNo	Electricity_r41
RegClassification	minOccurs="0"	RegClassification	Electricity_r41
PurposeOfRequest	minOccurs="0"	PurposeOfRequest	Electricity_r41
Escalation	minOccurs="0"	Escalation	Electricity_r41
ExemptionCode	minOccurs="0"	xsd:string	Electricity_r41

```

- <xsd:complexType name="ElectricityServiceOrderDetails">
  - <xsd:annotation>
    <xsd:documentation>Purpose - Defines the data type for new connection and meter additions and alterations v36.1. WL. Change LifeSupport to be
    optional field. </xsd:documentation>
  </xsd:annotation>
  - <xsd:complexContent>
    - <xsd:extension base="ServiceOrderRequestData">
      - <xsd:sequence>
        <xsd:element name="CustomerConsultationRequired" type="xsd:boolean"/>
        <xsd:element name="InstallationType" type="InstallationType" minOccurs="0"/>
        <xsd:element name="SupplyPhase" type="SupplyPhase" minOccurs="0"/>
        <xsd:element name="AverageDailyLoad" type="AveragedDailyLoad" minOccurs="0"/>
        <xsd:element name="CustomerType" type="CustomerType" minOccurs="0"/>
        <xsd:element name="MeteringType" type="MeteringType" minOccurs="0"/>
        <xsd:element name="OffPeakRequirements" type="SpecialComments" minOccurs="0"/>
        <xsd:element name="MaximumDemand" type="MeterDemand" minOccurs="0"/>
        <xsd:element name="ServiceTime" type="ServiceTimeType" minOccurs="0"/>
        <xsd:element name="SwitchingServiceRequired" type="SwitchingServiceRequired" minOccurs="0"/>
        <xsd:element name="ConfirmedDe-energisation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="License" type="License" minOccurs="0"/>
        <xsd:element name="MeterLicense" type="License" minOccurs="0"/>
        <xsd:element name="De-energisationReason" type="De-energisationReason" minOccurs="0"/>
        <xsd:element name="LifeSupport" type="YesNo" minOccurs="0"/>
        <xsd:element name="Co-ordinationRequired" type="YesNo" minOccurs="0"/>
        <xsd:element name="RegClassification" type="RegClassification" minOccurs="0"/>
        <xsd:element name="PurposeOfRequest" type="PurposeOfRequest" minOccurs="0"/>
        <xsd:element name="Escalation" type="Escalation" minOccurs="0"/>
        <xsd:element name="ExemptionCode" type="xsd:string" minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="version" type="r41" use="optional" default="r41"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

## InstallationType

Purpose: Defines a list of valid Installation Type.

Field	Restrictions	aseXML	Schema
InstallationType	xsd:string enumerated list (see Table 22)	simple	Electricity_r41

Table 22 InstallationType list

Overhead To Underground  
Mains.

Overhead.

Transformer Ground Level.

Transformer Overhead.

Underground To Overhead  
Mains.

Underground.

## InstrumentTransformer

Purpose – Define the structure of instrument transformer details.

Field	Restrictions	aseXML	Schema
TransformertNumber	minOccurs="0"	InstrumentTransformerSerialNumber	Electricity_r41
TransformerRatio	minOccurs="0"	MeterTransformerRatio	Electricity_r41
TransformerType	minOccurs="0"	InstrumentTransformerType	ElectricityEnumerations

## InstrumentTransformers

Purpose – Parent element for list of instrument transformers.

Field	Restrictions	aseXML	Schema
InstrumentTransformers	sequence	complex	Electricity_r41
InstrumentTransformer	maxOccurs="unbounded"	InstrumentTransformer	Electricity_r41

# InstrumentTransformerSerialNumber

Purpose – Identify instrument transformer serial number.

Detail: Maximum of 12 characters per line.

Field	Restrictions	aseXML	Schema
InstrumentTransformerSerialNumber	maxLength value="12" xsd:string ≤ 12 chars	simple	Electricity_r41

# NetworkDevice

Purpose – Define the structure of network device details.

Field	Restrictions	aseXML	Schema
NetworkDeviceNumber	minOccurs="0"	DeviceSerialNumber	Electricity_r41
NetworkDeviceLocation	minOccurs="0"	DeviceLocation	ElectricityEnumerations

# NetworkDevices

Purpose – Parent container for list of network devices.

Field	Restrictions	aseXML	Schema
NetworkDevices	sequence	complex	Electricity_r41
NetworkDevice	maxOccurs="unbounded"	NetworkDevice	Electricity_r41

# ServiceOrderSubType

Purpose: Defines a list of valid Service Order types supported by the participants.

For use of ServiceOrderSubType, see [B2B Procedure: Service Order Process](#).

Field	Restrictions	aseXML	Schema
ServiceOrderSubType	xsd:string enumerated list (see Table 23)	simple	Electricity_r41

Table 23 ServiceOrderSubType list

After Disconnection For Non-Payment	Final Read	Recipient Discretion
Allocate NMI	Install Controlled Load	Remote
Change Timeswitch Settings	Install Meter	Remove Fuse
Check Read	Local Meter Disconnection	Remove Meter
Disconnect at Pillar-Box Pit or Pole-Top	Meter Investigation-Inspect	Reseal Device
Establish Permanent Supply	Meter Investigation-Test	Retrospective Move-in
Establish Temporary In Permanent	Meter Reconfiguration	Supply Abolishment
Establish Temporary Supply	Move Meter	Supply Alteration
Exchange Meter	Move-in	Tariff Change
	New Reading Required	Temporary Isolation
	Physical Visit	Temporary Isolation-Group Supply

# ServiceOrderType

Purpose: Defines a list of valid Service Order types supported by the participants.

For use of ServiceOrderType, see [B2B Procedure: Service Order Process](#).

Field	Restrictions	aseXML	Schema
ServiceOrderType	xsd:string enumerated list (see Table 24)	simple	Electricity_r41

Table 24 ServiceOrderType list

De-energisation	Miscellaneous	Special Read
Metering Service Works	Re-energisation	Supply Service Works

# ServiceTimeType

Service Order Service Time Type

Field	Restrictions	aseXML	Schema
ServiceTimeType	xsd:string enumerated list (see Table 25)	simple	Electricity_r41

Table 25 ServiceTimeType list

Any Time	Business Hours	Non-Business Hours
----------	----------------	--------------------

# SORDResponseCode

Purpose: Defines a list of valid response code for different types of service orders.

Field	Restrictions	aseXML	Schema
SORDResponseCode	xsd:string enumerated list (Table 26)	simple	Electricity_r41

Table 26 SORDResponseCode list

Customer On-site	Metering not compatible with proposed Tariff Change	Sensitive Load
Customer Prevented	Metering Problem	Service Provider Cancellation
De-energisation not Completed Due to a Re-energisation	New Customer On-site	Shared Supply Point
Documentation not Provided	No Comms	Site Already Energised
Inadequate infrastructure	No Supply	Tariff Change not Approved
Initiator Cancellation	Other	Unable to Access
Life Support	Reading Problem - other	Unknown Connection Status
Meter not Retrieved	Recipient Cancellation	Unknown Load
Meter Reading Only Undertaken Due to Prior Re-energisation	Request Submitted by Another Initiator	Unsafe
	Retailer Cancellation	

# SwitchingServiceRequired

Purpose: Identify a remote service ID reference.

Field	Restrictions	aseXML	Schema
ServiceRequestID	xsd:string maxLength value="80"	simple	Electricity_r41

## Standing Data types

### ElectricityMeter

Purpose: container for electricity meter information.

Field	Restrictions	aseXML	Schema
ElectricityMeter	sequence	complex	Electricity_r41
AdditionalSiteInformation	nillable="true" minOccurs="0"	MeterAdditionalSiteInformation	Electricity_r41
AssetManagementPlan	nillable="true" minOccurs="0"	MeterAssetManagementPlan	Electricity_r41
CalibrationTables	nillable="true" minOccurs="0"	MeterCalibrationTables	Electricity_r41
CommunicationsEquipmentType	nillable="true" minOccurs="0"	MeterCommunicationsEquipmentType	Electricity_r41
CommunicationsProtocol	nillable="true" minOccurs="0"	MeterCommunicationsProtocol	Electricity_r41
Constant	nillable="true" minOccurs="0"	MeterConstant	Electricity_r41

Field	Restrictions	aseXML	Schema
ControlEquipments	nillable="true" minOccurs="0"	ControlEquipments	Electricity_r41
CustomerFundedMeter	nillable="true" minOccurs="0"	CustomerFundedMeter	Electricity_r41
DataConversion	minOccurs="0"	MeterDataConversion	Electricity_r41
DataValidations	nillable="true" minOccurs="0"	MeterDataValidations	Electricity_r41
DisplayType	nillable="true" minOccurs="0"	DisplayType	Electricity_r41
EstimationInstructions	nillable="true" minOccurs="0"	MeterEstimationInstructions	Electricity_r41
GeneralSupply	minOccurs="0"	YesNo	Common_r41
GenerationType	minOccurs="0"	GenerationType	ElectricityEnumerations
Hazard	nillable="true" minOccurs="0"	MeterHazard	Electricity_r41
InstallationTypeCode	nillable="true" minOccurs="0"	MeterInstallationTypeCode	Electricity_r41
InstrumentTransformers	minOccurs="0"	InstrumentTransformers	Electricity_r41
KeyCode	nillable="true" minOccurs="0"	KeyCode	Electricity_r41
LastTestDate	nillable="true" minOccurs="0"	xsd:date (ccyymmdd)	Electricity_r41
Location	nillable="true" minOccurs="0"	MeterLocation	Electricity_r41



Field	Restrictions	aseXML	Schema
Manufacturer	nillable="true" minOccurs="0"	MeterManufacturer	Electricity_r41
MeasurementType	nillable="true" minOccurs="0"	MeterMeasurementType	Electricity_r41
Model	nillable="true" minOccurs="0"	MeterModel	Electricity_r41
NextScheduledReadDate	nillable="true" minOccurs="0"	xsd:date (ccyymmdd)	Electricity_r41
NextTestDate	nillable="true" minOccurs="0"	xsd:date (ccyymmdd)	Electricity_r41
Password	nillable="true" minOccurs="0"	MeterPassword	Electricity_r41
Point	nillable="true" minOccurs="0"	MeterPoint	Electricity_r41
Program	nillable="true" minOccurs="0"	MeterProgram	Electricity_r41
ReadTypeCode	nillable="true" minOccurs="0"	MeterReadTypeCode	Electricity_r41
RegisterConfiguration	nillable="true" minOccurs="0"	ElectricityMeterRegisterConfiguration	Electricity_r41
RemotePhoneNumber	nillable="true" minOccurs="0"	MeterRemotePhoneNumber	Electricity_r41
Route	nillable="true" minOccurs="0"	MeterRoute	Electricity_r41
SerialNumber	nillable="true" minOccurs="0"	MeterSerialNumber	Common_r41
Status	nillable="true" minOccurs="0"	MeterStatusCode	Electricity_r41

Field	Restrictions	aseXML	Schema
SupplyPhase	minOccurs="0"	SupplyPhase	Electricity_r41
TestCalibrationProgram	nillable="true" minOccurs="0"	MeterTestCalibrationProgram	Electricity_r41
TestPerformedBy	nillable="true" minOccurs="0"	MeterTestPerformedBy	Electricity_r41
TestResultAccuracy	nillable="true" minOccurs="0"	MeterTestResultAccuracy	Electricity_r41
TestResultNotes	nillable="true" minOccurs="0"	MeterTestResultNotes	Electricity_r41
TransformerLocation	nillable="true" minOccurs="0"	MeterTransformerLocation	Electricity_r41
TransformerRatio	nillable="true" minOccurs="0"	MeterTransformerRatio	Electricity_r41
TransformerType	nillable="true" minOccurs="0"	MeterTransformerType	Electricity_r41
Use	nillable="true" minOccurs="0"	MeterUse	Electricity_r41
UserAccessRights	nillable="true" minOccurs="0"	MeterUserAccessRights	Electricity_r41

## ElectricityMeters

Purpose: container for information relating to multiple electricity meters associated with a NMI.

Field	Restrictions	aseXML	Schema
ElectricityMeters	sequence	complex	Electricity_r41

Field	Restrictions	aseXML	Schema
Meter	maxOccurs="unbounded"	ElectricityMeter	Electricity_r4 1

# Electricity Enumerations

## 11.

Contains the electricity specific enumerations added to outside the standard aseXML change process.

Guidelines for use:

- Procedure changes to Electricity B2B or B2M requiring changes (in particular additions) to electricity specific enumerated lists.
- Additions are made using the standard aseXML change process.
- Deletions and modifications are discouraged, but if necessary, they must be made through the standard aseXML change process.

References:

- [ElectricityEnumerations.xsd](#)

## ControlEquipmentType

Purpose – Identify control equipment Type.

Detail: Maximum of 25 characters per line.

Field	Restrictions	aseXML	Schema
ControlEquipmentType	maxLength value="25" whitespace value="collapse" xsd:string enumerated list (see Table 27)	simple	ElectricityEnumerations

Table 27 ControlEquipmentType list

Internal Relay

External Relay

Internal Time Switch

External Time Switch

# CustomerType

Purpose: Defines a valid list of customer types.

Field	Restrictions	aseXML	Schema
CustomerType	xsd:string enumerated list (see Table 28)	simple	ElectricityEnumerations

Table 28 CustomerType list

Commercial      Farm      Industrial      Lighting      Residential      NCONUML

```
- <xsd:simpleType name="CustomerType">
  - <xsd:annotation>
    <xsd:documentation>Purpose - Defines a list of valid customer types</xsd:documentation>
  </xsd:annotation>
  - <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Industrial"/>
    <xsd:enumeration value="Commercial"/>
    <xsd:enumeration value="Residential"/>
    <xsd:enumeration value="Farm"/>
    <xsd:enumeration value="Lighting"/>
    <xsd:enumeration value="NCONUML"/>
  </xsd:restriction>
</xsd:simpleType>
```

# CustomerNotificationMethod

Purpose – Indicates the delivery method for the notice of interruption to the customer.

The ContactDetail is derived from the customerNotificationMethod.

Field	Restrictions	aseXML	Schema
CustomerNotificationMethod	xsd:string enumerated list (see Table 29)	simple	ElectricityEnumerations

Table 29 CustomerNotificationMethod

Post	Email	SMS	Waiver	Phone
CustomerNotificationAddress required	Not required if a Distributor is the recipient of a ServiceOrderRequest CustomerNotificationEmail required	CustomerContactTelephoneNumber	CustomerAgreedStartDate & CustomerAgreedEndDate or CustomerPreferredDate required	CustomerContactTelephoneNumber

```

- <xsd:simpleType name="CustomerNotificationMethod">
  - <xsd:annotation>
    <xsd:documentation> Purpose - Used to clearly indicate the method by which the notice of interruption to the customer is to be delivered. Version 1.0 additions - Post - Email - SMS - Waiver - Phone </xsd:documentation>
  </xsd:annotation>
  - <xsd:restriction base="xsd:string">
    <xsd:maxLength value="40"/>
    <xsd:enumeration value="Post"/>
    <xsd:enumeration value="Email"/>
    <xsd:enumeration value="SMS"/>
    <xsd:enumeration value="Waiver"/>
    <xsd:enumeration value="Phone"/>
  </xsd:restriction>
</xsd:simpleType>

```

## De-energisationReason

Purpose – Provide de-energisation reason.

Field	Restrictions	aseXML	Schema
De-energisationReason	maxLength value="40" xsd:string enumerated list (see Table 30)	string	OneWayNotification_r41

Table 30 De-energisationReason list

Breach of Contract	Move Out	Safety
Customer Requested	No Access	Site Works
Defect	Non-Payment (DNP)	Unauthorised Usage (DNI)
Illegal Usage	Other	

# DeviceLocation

Purpose – Provide Device Location Field.

	Restrictions	aseXML	Schema
DeviceLocation	maxLength value="14" xsd:string enumerated list (Table 31)	simple	ElectricityEnumerations

Table 31 DeviceLocation list

Before Meter

After Meter

# ElecIndexInvestigationCode

Purpose – Provide de-energisation reason.

field	Restrictions	aseXML	Schema
ElecIndexInvestigationCode	xsd:string enumerated list (see Table 32)	simple	ElectricityEnumerations

Table 32: ElecIndexInvestigationCode list

Confirm Reading For Vacant Site

Invalid Standing Data

Scheduled Reading Required

Confirm Zero Consumption

Missing Datastream

Service Order Reading Required

Incomplete Data

Require Actual Reading or Substitute

Verify High Reading

Invalid MDFF Data

Require Final Substitute

Verify Low Reading

Require Estimate Data

Other

Meter Churn

Verify/Missing Register

## EnergisationStatus

Purpose: Identify an EnergisationStatus.

Field	Restrictions	aseXML	Schema
EnergisationStatus	maxLength value="30" whitespace value="collapse" xsd:string enumerated list (see Table 33)	simple	ElectricityEnumerations

Table 33 EnergisationStatus list

Active	Not Connected	Deenergised Before Meter	Deenergised At Meter	Deenergised After Meter	Free text
--------	---------------	--------------------------	----------------------	-------------------------	-----------

## Escalation

Purpose – Indicates if the Service Order should be prioritised over other Service Orders.

Field	Restrictions	aseXML	Schema
Escalation	xsd:string enumerated list (see Table 34)	simple	ElectricityEnumerations



Table 34 Escalation

Complaint	Ombudsman	VIP	No Supply	Other	Blank
				Add relevant details and the code agreed between the Initiator and Recipient in the Special instruction, e.g. [PRIORITY=abc]	A blank field assumes the escalation level is normal

```

- <xsd:simpleType name="Escalation">
  - <xsd:annotation>
    <xsd:documentation> Purpose - Used to indicate the Service Order is to be prioritised over other Service Orders. Version 1.0 additions - Complaint - Ombudsman - VIP - No Supply - Other </xsd:documentation>
  </xsd:annotation>
  - <xsd:restriction base="xsd:string">
    <xsd:maxLength value="40"/>
    <xsd:enumeration value="Complaint"/>
    <xsd:enumeration value="Ombudsman"/>
    <xsd:enumeration value="VIP"/>
    <xsd:enumeration value="No Supply"/>
    <xsd:enumeration value="Other"/>
  </xsd:restriction>
</xsd:simpleType>

```

# GenerationType

Purpose: To define a list of valid generation types.

Field	Restrictions	aseXML	Schema
GenerationType	maxLength value="5" xsd:string enumerated list (see Table 35)	simple	Electricity_r41

Table 35 GenerationType list

Net	Gross	None
-----	-------	------

# InstrumentTransformerType

Purpose – Identify Instrument Transformer Type.

Detail: Maximum of 2 characters per line.

Field	Restrictions	aseXML	Schema
InstrumentTransformerType	maxLength value="2", whitespace value="collapse" xsd:string enumerated list: - CT - VT	simple	ElectricityEnumerations

# MeterEquipmentType

Purpose – Identify meter equipment Type. Field	Restrictions	aseXML	Schema
MeterEquipmentType	maxLength value="25" xsd:string enumerated list (see Table 36)	simple	ElectricityEnumerations

Table 36 MeterEquipmentType list

Basic Meter    Interval Meter    Network Device    Control Equipment    Instrument Transformer

# PrimaryVoltage

Purpose: Indicates primary network voltage the metering installation is connected to.

Field	Restrictions	aseXML	Schema
PrimaryVoltage	xsd:string maxLength value="8" minLength value="1" whitespace value="collapse"	simple	ElectricityEnumerations

Table 37 PrimaryVoltage list

230V	11KV	66KV	Other HV
400V	22KV	132KV	
	33KV		

## PurposeOfRequest

Purpose – Indicates the purpose of visit.

Field	Restrictions	aseXML	Schema
PurposeOfRequest	xsd:string enumerated list (see Table 38)	simple	ElectricityEnumerations

Table 38 PurposeOfRequest List

New connection	Additional Meter	Part of BTS Temp to Perm	Part of supply alteration
Bidirectional flows at premises	Bypassed Customer	Communications Remove	Communications Install
Revenue Protection	Site Abolishment	Family Failure	Fault
Retailer Led	None If you select None, it is mandatory to add details in SpecialInstructions	Other If you select Other, it is mandatory to add details in SpecialInstructions	Blank If you leave the field blank, it is mandatory to add details in SpecialInstructions

```

- <xsd:simpleType name="PurposeOfRequest">
  - <xsd:annotation>
    <xsd:documentation> Purpose - Used to clearly indicate the purpose of visit Version 1.0 additions - New connection - Additional Meter - Part of BTS
    Temp to Perm - Part of supply alteration - Bidirectional flows at premises - Bypassed Customer - Communications Remove - Communications
    Install - Revenue Protection - Site Abolishment - Family Failure - Fault - Retailer Led - None - Other </xsd:documentation>
  </xsd:annotation>
  - <xsd:restriction base="xsd:string">
    <xsd:maxLength value="40"/>
    <xsd:enumeration value="New connection"/>
    <xsd:enumeration value="Additional Meter"/>
    <xsd:enumeration value="Part of BTS Temp to Perm"/>
    <xsd:enumeration value="Part of supply alteration"/>
    <xsd:enumeration value="Bidirectional flows at premises"/>
    <xsd:enumeration value="Bypassed Customer"/>
    <xsd:enumeration value="Communications Remove"/>
    <xsd:enumeration value="Communications Install"/>
    <xsd:enumeration value="Revenue Protection"/>
    <xsd:enumeration value="Site Abolishment"/>
    <xsd:enumeration value="Family Failure"/>
    <xsd:enumeration value="Fault"/>
    <xsd:enumeration value="Retailer Led"/>
    <xsd:enumeration value="None"/>
    <xsd:enumeration value="Other"/>
  </xsd:restriction>
</xsd:simpleType>

```

## ReasonForInter

Purpose – The reason for planned interruption.

Field	Restrictions	aseXML	Schema
ReasonForInter	xsd:string enumerated list (see Table 38)	simple	ElectricityEnumerations

Table 39 ReasonForInter

Meter Exchange - Individual	Meter Exchange – Rollout	Meter Replacement - Family Maintenance	Meter Test	Meter Fault Investigation
Meter Installation - Additional	Install Controlled Load	Remove Meter	Move Meter	Meter Reconfiguration
Distribution Works	Other			

```

- <xsd:simpleType name="ReasonForInter">
  - <xsd:annotation>
    <xsd:documentation> Purpose - Define the fixed Reasons for interruption Version 1.0 additions - Meter Exchange - Individual - Meter Exchange -
    Rollout - Meter Replacement - Family Maintenance - Meter Test - Meter Fault Investigation - Distribution Works - Meter Installation - Additional -
    Install Controlled Load - Remove Meter - Move Meter - Meter Reconfiguration - Other Version 1.1 update - Replace en dash in Meter Replacement -
    Family Maintenance with proper hyphen due to UTF-8 limitation. Version 1.2 update - Addition of new enum values as per B2B v3.4 and v3.5
    Consultation. Version 3.0.1 - Replace elongated dash in Meter Installation – Additional with standard hyphen. </xsd:documentation>
  </xsd:annotation>
  - <xsd:restriction base="xsd:string">
    <xsd:maxLength value="50"/>
    <xsd:enumeration value="Meter Exchange - Individual"/>
    <xsd:enumeration value="Meter Exchange - Rollout"/>
    <xsd:enumeration value="Meter Replacement - Family Maintenance"/>
    <xsd:enumeration value="Meter Test"/>
    <xsd:enumeration value="Meter Fault Investigation"/>
    <xsd:enumeration value="Distribution Works"/>
    <xsd:enumeration value="Meter Installation - Additional"/>
    <xsd:enumeration value="Install Controlled Load"/>
    <xsd:enumeration value="Remove Meter"/>
    <xsd:enumeration value="Move Meter"/>
    <xsd:enumeration value="Meter Reconfiguration"/>
    <xsd:enumeration value="Other"/>
  </xsd:restriction>
</xsd:simpleType>

```

# ReasonForNotice

Purpose - Define the fixed reasons for the notice.

Field	Restrictions	aseXML	Schema
ReasonForNotice	maxLength value="50" xsd:string enumerated list (see Table 40)	simple	ElectricityEnumerations

Table 40 ReasonForNotice list

Meter Family Failure	Communication Failure	Meter Bypassed
Accuracy Failure	Meter Verification	Physical Damage
Timeswitch/Controlled Load Failure	Malfunction	Theft/Tampering
Contactors Failure	Area Event	Other
No Display	Metrology Threshold Breach	

# RegClassification

Purpose – Indicates if it is customer-initiated and regulatory timeframes apply or not.

Field	Restrictions	aseXML	Schema
RegClassification	xsd:string enumerated list (see Table 41)	simple	ElectricityEnumerations

Table 41 RegClassification List

Customer Initiated	Malfunction	New Meter Deployment	Shared Fuse	Other If you select Other, it is mandatory to add details in SpecialInstructions
--------------------	-------------	----------------------	-------------	---

```

- <xsd:simpleType name="RegClassification">
  - <xsd:annotation>
    <xsd:documentation> Purpose - Use to indicate whether it is customer Initiated and regulatory timeframes apply, or not. Version 1.0 additions - Customer Initiated - Malfunction - New Meter Deployment - Shared Fuse - Other </xsd:documentation>
  </xsd:annotation>
  - <xsd:restriction base="xsd:string">
    <xsd:maxLength value="40"/>
    <xsd:enumeration value="Customer Initiated"/>
    <xsd:enumeration value="Malfunction"/>
    <xsd:enumeration value="New Meter Deployment"/>
    <xsd:enumeration value="Shared Fuse"/>
    <xsd:enumeration value="Other"/>
  </xsd:restriction>
</xsd:simpleType>

```

# SiteRequestReason

Purpose: Define the fixed reasons used to request site access details.

Field	Restrictions	aseXML	Schema
SiteRequestReason	maxLength value="40" xsd:string enumerated list	simple	ElectricityEnumerations

Table 42 SiteRequestReason list

New Retailer for site	No Hazard Details on file for NMI
Records old and need to be updated	Site Visit Required
No Access details on file for NMI	Other

# SupplyOff

Purpose: Identify a remote service ID reference.

Field	Restrictions	aseXML	Schema
SupplyOff	maxLength value="40" xsd:string enumerated list (see Table 43)	simple	ElectricityEnumerations

Table 43 SupplyOff list

Remove Fuse      Remote      Local Meter Disconnection      Pillar-Box Pit Or Pole-Top

# WorkType

Purpose: Identify a Metering Work Type.

Field	Restrictions	aseXML	Schema
WorkType	maxLength value="50" xsd:string enumerated list (see Table 44)	simple	ElectricityEnumerations

Table 44 WorkType list

Exchange Equipment      Install Equipment      Remove Equipment      Relocate

# Enumerations

12. Purpose: Contains the enumerations added at short notice and released outside the standard aseXML change cycle. The types and enumerated values are controlled by participating industry bodies.

References:

- [Enumerations.xsd](#)

## Simple types

### AustralianFloorOrLevelType

Purpose: Define floor or level types as per [Australian Standard AS4590](#).

Field	Restrictions	aseXML	Schema
AustralianFlatOrUnitType	maxLength value="2" xsd:string enumerated list (see Table 45)	simple	Enumerations

Table 45 AustralianFlatOrUnitType list

B	G	LG	UG	OD	RT
FL	L	M	LB	P	SB



# AustralianFlatOrUnitType

Purpose: Define flat or unit types as per [Australian Standard AS4590](#).

Field	Restrictions	aseXML	Schema
AustralianFlatOrUnitType	maxLength value="4" xsd:string enumerated list (see Table 46)	simple	Enumerations

Table 46 AustralianFlatOrUnitType list

	CARS	HALL	OFF	SHRM	TWR
ANT	CLUB	HSE	OFFC	SIGN	U
APT	COOL	KSK	PTHS	SITE	UNIT
ATM	CTGE	LBBY	REAR	SL.	VLLA
BBQ	DUP	LOFT	RESV	STLL	VLT
BLCK	DUPL	LOT	RM	STOR	WARD
BLDG	F	LSE	ROOM	STR	WE
BNGW	FCTY	MB	SE	STU	WHSE
BTSD	FLAT	MBTH	SEC	SUBS	WKSH
CAGE	FY	MBTH	SHED	TNCY	
CARP	GRGE	MSNT	SHOP	TNHS	

# AustralianPostalDeliveryType

Purpose – Define postal delivery types as per [Australian Standard AS4590:2006](#)

Detail – There are additions to what is in the AS4590:2006 standard. The extra types are derived from the Australia Post AMAS standard.

Field	Restrictions	aseXML	Schema
AustralianPostalDeliveryType	maxLength value="11" xsd:string enumerated list (see Table 47)	simple	Enumerations

Table 47 AustralianPostalDeliveryType list

CARE PO	GPO BOX	PRIVATE BAG
CMA	LOCKED BAG	RSD
CMB	MS	RMB
CPA	PO BOX	RMS

# AustralianStreetSuffix

Purpose: Define street suffixes as per [Australian Standard AS4590](#).

From the Australia Post AMAS standard.

Field	Restrictions	aseXML	Schema
AustralianStreetSuffix	maxLength value="2" xsd:string enumerated list (see Table 48)	simple	Enumerations

Table 48 AustralianStreetSuffix list

CN	IN	NE	OP	SW
DE	LR	NW	OT	UP
E	ML	OF	S	W
EX	N	ON	SE	

## AustralianStreetType

Purpose: Define street types as per [Australian Standard AS4590](#).

Detail: There are additions above those defined in AS4590.

Field	Restrictions	aseXML	Schema
AustralianStreetType	maxLength value="4" xsd:string enumerated list (see Table 49)	simple	Enumerations

Table 49 AustralianStreetType list

ACCS	ART	BAY	BRAE	BWK	CIR
ACRE	ARTL	BCH	BRAN	BWLK	CL
ALLY	ARTY	BDGE	BRCE	BYPA	CLDE
ALWY	AV	BDWY	BRET	BYWY	CLR
AMBL	AVE	BEND	BRK	CAUS	CLT
ANCG	BA	BLK	BROW	CCT	CMMN
APP	BANK	BOWL	BVD	CDS	CNCD
ARC	BASN	BR	BVDE	CH	CNN

CNR	CSWY	DR	FLTS	GRN	ID
CNTN	CT	DRWY	FOLW	GRND	INLT
CNWY	CTR	DSTR	FORD	GTE	INTG
CON	CTTG	DVWY	FORK	GTES	INTN
COVE	CTYD	DWNS	FORM	GTWY	ISLD
COWY	CUL	EDGE	FRNT	GTWY	JNC
CPS	CUT	ELB	FRTG	GWY	KEY
CR	CUTT	END	FSHR	HETH	KEYS
CRCS	CUWY	ENT	FTRK	HETH	KNOL
CRD	DALE	ESMT	FTWY	HILL	LADR
CRES	DASH	ESP	FWY	HIRD	LANE
CRF	DE	EST	GAP	HLLW	LDG
CRK	DELL	EXP	GDN	HRBR	LEAD
CRSE	DENE	EXTN	GDNS	HRD	LEDR
CRSE	DEVN	FAWY	GLD	HTH	LEES
CRSG	DIP	FBRK	GLDE	HTS	LINE
CRSS	DIV	FITR	GLEN	HUB	LINK
CRST	DOCK	FK	GLY	HUB	LKT
CSAC	DOM	FLAT	GR	HVN	LNWY
CSO	DOWN	FLNE	GRA	HWY	LOOP

LT	OVAL	PRST	RES	RTY	STRA
LWR	PARK	PRST	REST	RUE	STRP
LYNN	PART	PSGE	RGWY	RUN	STRS
MALL	PASS	PSGE	RIDE	RVR	STRT
MANR	PATH	PSLA	RING	RVRA	SVWY
MART	PDE	PWAY	RISE	RVWY	SWY
MEAD	PHWY	PWY	RMBL	SAC	TARN
MEW	PIAZ	QDGL	RND	SBWY	TCE
MEWS	PKLD	QDRT	RNDE	SDNG	THFR
MILE	PKT	QUAD	RNGE	SHUN	THOR
MNDR	PKWY	QY	ROFW	SHWY	THRU
MNR	PL	QYS	ROW	SKLN	TKWY
MT	PLAT	RAMP	ROWE	SLPE	TLWY
MTWY	PLMS	RCH	ROWY	SND	TMWY
MWY	PLZA	RD	RSBL	SPUR	TOP
NOOK	PNT	RDGE	RSNG	SQ	TOR
NTH	PORT	RDS	RTE	ST	TRI
NULL	PRDS	RDSD	RTN	STAI	TRK
OTLK	PREC	RDWY	RTRN	STH	TRL
OTLT	PROM	REEF	RTT	STPS	TRLR

TUNL	UPR	VLL	VWS	WHRF	WWAY
TURN	VALE	VLLA	WADE	WKWY	WYND
TVSE	VDCT	VLLS	WALK	WOOD	YARD
TWAY	VIAD	VLLY	WAY	WTRS	
TWRS	VIEW	VSTA	WD	WTRS	
UPAS	VLGE	VUE	WDS	WTWY	

# Events

Purpose: Define the common format for report events.

**13.** Detail: aseXML encourages the use of events in transactions to report status information. They are also used in message and transaction acknowledgements.

References:

- [Guidelines for the Development of aseXML](#)
- [Events\\_r41.xsd](#)

## Main types

### Event (complex)

Purpose: Common format used to report events.

Detail: aseXML encourages the use of events in transactions to report status information. They are also used in message and transaction acknowledgements. Where possible use an element name of “Event”.

Field	Restrictions	aseXML	Schema
Event	sequence	complex	Events_r41
Code	Mandatory, sequence	EventCode	Events_r41
KeyInfo	Optional, minOccurs="0"	EventKeyInfo	Events_r41
Context	Optional, minOccurs="0"	EventContext	Events_r41
Explanation	Optional, xsd:string, minOccurs="0"	element	Events_r41

Field	Restrictions	aseXML	Schema
SupportedVersions	minOccurs="0"	EventSupportedVersions	Events_r41
Class	Optional, default="Application"	EventClass	Events_r41
Severity	Optional, default="Fatal"	EventSeverity	Events_r41

## Event (element)

Purpose: Top-level element used when reporting transport level errors, for example: decompression failures. Use this element to report aseXML in a consistent fashion.

Use this element via a Type="Event" attribute. Do not use it via the ref="Event".

Detail: There may be a number of error conditions detected by a transport receiving an aseXML message, preventing it detecting a valid message. This Type of acknowledgement is useful for a single event only.

Field	Restrictions	aseXML	Schema
Event	element	Event (complex)	Events_r41



# aseXML releases

Purpose: Identify the aseXML release version. Use Release identifiers to enable versioning of transactions.

## Name

Purpose – Release identifier

Field	Restrictions	aseXML	Schema
Name	enumeration value="r3" to "r36"	ReleaseIdentifier	Events_r41

## ReleaseIdentifier

Field	Restrictions	aseXML	Schema
ReleaseIdentifier	xsd:string pattern value="r[0-9]* r[0-9]*_[a-z][0-9]*"	simple	Events_r41

# Support types

## EventClass

Purpose: Provide a high-level categorisation of events.

Details:

- Message events relate to the structure and delivery of aseXML messages.
- Application events are generated by the applications communicating via aseXML.
- Processing events reflect environmental issues associated with running applications.



## EventContext

Purpose: Identify the specific data or condition causing the event.

Detail: Provide the portion of the input where the event applies.

Field	Restrictions	aseXML	Schema
EventContext	xsd:string maxLength value="80"xsd:string ≤ 80 chars	simple	Events_r41

## EventKeyInfo

Purpose: Provide information to allow identification of the data triggering the event.

Detail: Where the combination of class and code are insufficient to completely describe an event, you can use KeyInfo to provide further detail about the source of the event within the original transaction.

Field	Restrictions	aseXML	Schema
EventKeyInfo	xsd:string	simple	Events_r41

## EventSeverity

Purpose: Provide an indication of the action required after receiving an event.

Detail: The severity dictates the further processing possible after receiving the event.

Field	Restrictions	aseXML	Schema
EventSeverity	xsd:string enumerated list (see Table 51)	simple	Events_r41

Table 51 EventSeverity

Error                      Fatal                      Information                      Warning

## EventSupportedVersions

Purpose: Provide the set of versions supported for a particular transaction.

Detail: Where an unsupported version of a supported transaction is received, the initiator indicates the supported version to allow the receiver to choose a compatible version.

Field	Restrictions	aseXML	Schema
version	maxOccurs="unbounded"	ReleaseIdentifier	Events_r41

# Network Billing

14. Purpose - Define the transactions used to exchange billing information between network distribution businesses and retailers.

References:

- [NetworkBilling\\_r34.xsd](#)

## Network billing process specific data types

### NetworkTariffCode

Purpose: Identifies an LNSP specific network tariff.

MSATS Data Model Column – NetworkTariffCode.

Field	Restrictions	aseXML	Schema
NetworkTariffCode	maxLength value="10" xsd:string ≤ 10 chars	simple	NetworkBilling_r34

# Needing Help

## 1. AEMO's Support Hub

IT assistance is requested through one of the following methods:

- Phone: 1300 AEMO 00 (1300 236 600)

For non-urgent issues, normal coverage is 8:00 am to 6:00 pm on weekdays, Australian Eastern Standard Time (AEST).

- The [Contact Us](#) form on AEMO's website.

AEMO recommends participants call AEMO's Support Hub for all urgent issues, whether or not you have logged a call using the contact us form.

## Information to provide

Please provide the following information when requesting assistance from AEMO:

- Your contact details
- Company name
- Company ID
- System or application name
- Environment: production or pre-production
- Problem description
- Screenshots

For AEMO software-related issues please also provide:

- Participant ID (if Data Interchange (DI) problem)
- Version of software
- Properties or log files

- PDR Monitor support dump and DI instance name (if DI problem)

## Feedback

Your feedback is important and helps us improve our services and products. To suggest improvements, please contact [AEMO's Support Hub](#).

# Terms

## Glossary

You can find glossary terms in the:

- [Retail Electricity Market Procedures - Glossary and Framework](#)
- [Industry terminology](#) on AEMO's website.



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