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WA Electricity B2B Processes

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Participant Build Pack – Tranche 1

Version: 0.4

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Version History

Version	Date	Author(s)	Section	Change
0.2	30/7/2008	Western Power	Various	This document is based on the NEMMCO document "National Electricity B2B Processes Participant Build Pack – Tranche 1", Version 2.4, Published 21 November 2005
0.3	18/12/2008	Western Power	Various	Minor adjustments following feedback from NEMMCO. To avoid confusion, references to NEMMCO and the National Electricity Rules have been changed or removed.
0.4	11/12/2015	Western Pwr	4.2.3.8	Amendment to clerical errors for New Connections

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High-level statements

This document defines how the WA electricity market operates its B2B Procedure, integrating the technical details from each of the five WA B2B Procedures above and mapping these to the waeXML schema.

This document is based on the NEMMCO document National Electricity B2B Processes: Participant Build Pack – Tranche 1, Version 2.4, Published 21 November 2005. This version of the NEMMCO document remains valid, save for the exceptions/deviations that are specified in the WA version.

This document uses **red** text to highlight where changes have been made to the baselined source document. Due to the limitations in page real estate that Acrobat documents put in place, there will be occasions where it will be necessary to insert or append pages. When this has to happen, it will not be practicable to renumber Acrobat page numbers. So, if significant information needs to be inserted between pages 2 and 3, we will insert new pages 2a, 2b, etc.

Within this WA B2B Processes: Participant Build Pack:

- **MSATS** should be taken to read "the Network Operator's systems that support standing data and customer transfer".
- **CATS** should be taken to read "the Network Operator's systems that support the transfer of customers under the Customer Transfer Code 2004."
- **DNSP** should be taken to read "the Network Operator".
- **NEMMCO** should be taken to read "the WA Network Operator, in its role as the market data manager."
- **NEMMCO B2B** should be taken to read "the B2B system operated within Western Australia by the Network Operator".
- **MDP** should be taken to read "Network Operator".
- **aseXML** should be taken to read "waeXML".
- **MSATS B2B Handler** should be taken to read "WA B2B Gateway".
- **National B2B Infrastructure** should be taken to read "WA B2B Infrastructure".
- **B2B Browser Application** should be taken to read "Metering Service Centre".
- **MSATS Procedures** refer to the schedule of documents that support the operation the WA Electricity Market. Part 4 of the Electricity Industry Metering Code 2005 Communication Rules defines this schedule.
- **Rules** should be taken to read as a reference to the Metering Code 2005 and the Customer Transfer Code 2004, plus all their subsidiary documents that give legal and regulatory foundation to the operation of the WA Electricity Market.

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Special Note:¶
As per Change Request B2BT10205 the following must be noted with regards to Stop File Names. This is to correct an error in the B2B Procedure: Technical Delivery Specification. This will be removed from the Build Pack once the procedure has been corrected.¶
<#>NEMMCO must ensure that the MSATS B2B Handler's flow control management functionality is based on the use of "flow control" files. Two types of flow control files must be used. The first flow control file is named "**B2Bholdinp.stp**" and is located in the Recipient's Outbox. The second flow control file contains the name of the Recipient who is at the warning limit (**ParticipantID_B2Bholdinp.stp**) and must be located in a special directory "stopbox" located at the same level as Inbox and Outbox and repeated for each Participant.¶
¶
<#>NEMMCO must ensure that when the number of unacknowledged B2B .zip files in a Participant Outbox exceeds a configurable Warning level, the MSATS B2B Handler creates a flow control file of the form **ParticipantID_B2Bholdinp.stp** in the stopbox directory for each B2B Participant. On a subsequent flow control file processing cycle, when the number of unacknowledged B2B .zip files in a Participants Outbox exceeds a configurable High level set by NEMMCO for that Participant, NEMMCO must ensure that the MS ... [13]

1. Introduction

1.1. Purpose

a. The purpose of this Participant Build Pack is to support the technical implementation of the B2B Procedures. This document integrates the technical details from each of the five B2B Procedures and maps these to the aseXML schema.

b. The Participant Build Pack makes no assumptions regarding the internal architecture of Participants' systems.

c. The formal obligations on Participant's are detailed in the B2B Procedures.

1.2. Audience

a. The document has been written for business and IT personnel within the Western Australia B2B Market, as well as the Network Operator's business and IT personnel. It is expected that the audience is familiar with the overall business endeavour of the B2B Procedures and with the artefacts listed in the Related Documents section of this document.

1.3. Related Documents

a. There are a number of related documents or artefacts that have been issued and should be read in conjunction with this document. The table below defines the documents and the versions used to generate this Participant Build Pack. These references are included at relevant places in the Build Pack in the format "Ref. [x]".

Ref	Artefact Name		WA version reponsibility
1	WA B2B Procedures: Meter Data Process v1.4		Network Operator
2	WA B2B Procedures: Customer and Site Details Notification Process v1.4		Network Operator
3	WA B2B Procedures: Service Orders Process v1.4		Network Operator
4	WA B2B Procedures: Technical Guidelines for B2B Procedures v1.4		Network Operator

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Ref	Artefact Name		WA version reponsibility
5	WA B2B Procedures: Technical Delivery Specification v1.4		Network Operator
6	aseXML Guidelines v3.0		N/A
7	Meter Data File Format ME_MA0001v007		N/A
			N/A
			N/A
			N/A

Table 1-1: List of Related Documents

1.4. Overview and Structure

a. This document is organised in a number of sections as described below:

Section	Description
Overview of Interfaces	This section identifies two types of interfaces: generic and specific
Generic Interface	This section identifies the part of the interface generic for all interfaces
Specific Interfaces	This section describes the parts of the interface that are specific or only apply to a given interface.
Appendices	A number of appendices are provided in this document to facilitate transaction search via cross-references and to supply event codes and data elements details. A. Data Dictionary for aseXML elements B. Listing of Fields Grouped by B2B Transaction **Event CodesTable B-13: ase:TransactionAcknowledgement Field Mapping** C. Event Codes D. Event Usage Rules

Table 1-2: Document Overview and Structure

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1.5. Relationship with the WA B2B Procedures (the 'B2B Procedures')

a. This document is based on the B2B Procedures. The B2B Procedures are covered by the Metering Code 2005 Communication Rules. This Participant Build Pack is designed to provide some of the information contained within the B2B Procedures in a format and with explanatory material to meet the IT development requirements of Participants.

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b. Participants should use this document as the primary source of information for system development. However, for all matters in relation to compliance with the Rules, the B2B Procedures take precedence over this document. In addition, the Build Pack must be used in conjunction with the B2B Procedures, especially for full details regarding the timing and content of transactions (cross references are provided in the Build Pack for the most critical situations where this is necessary).

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c. Where the Build Pack intentionally differs from the B2B Procedure these are explicitly identified to enable development to proceed while any necessary changes to the B2B Procedures are made.

1.6. Examples of waeXML instance documents

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a. Examples of waeXML instance documents are provided in this document. These examples are provided for illustration and guidance only.

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b. waeXML instance documents developed by Participants should always be based on the agreed version of the waeXML schema published as part of the Western Power Build Pack and available on the website of the Network Operator (http://www.westernpower.com.au/mainContent/workingWithPower/NetworkAccessServices/MeteringTransferCodes/Build_Pack.html) and not the examples provided in this document.

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1.7. waeXML schema version

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a. This document uses the approved r17:WA:r2.00 version of the waeXML schema.
Note: The waeXML schema diagrams show all fields in the current version of the schema, some of which are not used for the B2B transactions. The associated transaction tables only show the fields and enumerated values relevant to the electricity B2B transactions.

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b. Participants **must not** build their B2B systems based on any waeXML version earlier than r17:WA:r2.00.

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c. Although the initial implementation of the B2B Transactions will use a single version of the schema; future changes to specific Transactions will necessitate support for multiple versions of the schema. If changes are made to the schema the entire market must adopt that schema for it to become effective in the WAEM.

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1.8. Linking of Transactions

1.8.1. General

a. The standard aseXML acknowledgement model links related transactions using the *ase:Transaction@transactionID* and *ase:Transaction@initiatingTransactionID* data elements. Ref: [6], 10.

1.8.2. Usage of initiatingTransactionID element for transitioning

a.

1.8.3. RequestID

a. The aseXML implementation of the B2B transactions maps the *RequestID* field to *ase:Transaction@transactionID* in the Request transactions and *ase:Transaction@initiatingTransactionID* in the Response transactions.

b. As an example, *RequestID* in a VerifyMeterDataRequest transaction is mapped to *ase:Transaction@transactionID* in ase:MeterDataVerifyRequest. *RequestID* in the MeterDataNotification transaction (Response) will be mapped to *ase:Transaction@initiatingTransactionID* in ase:MeterDataNotification.

c. Some transactions can be used to both send unsolicited information and to meet a request (ie triggered by another transaction). An ase:MeterDataNotification, for example, can be sent unsolicited following a scheduled meter read, or can be solicited by an ase:MeterDataVerifyRequest or ase:MeterDataMissingNotification.

d. If the transaction is used in its unsolicited mode, the *ase:Transaction@initiatingTransactionID* will not be provided. However, if the transaction is sent as a response to another transaction, then the *ase:Transaction@initiatingTransactionID* of the initiating transaction must be provided. Any additional ase:MeterDataNotification generated as the result of the original request must contain an *ase:Transaction@initiatingTransactionID* that corresponds to the *ase:Transaction@transactionId* value of the original Request. This will allow applications to relate the requesting and responding transactions.

1.8.4. RetServiceOrder

a. The *RetServiceOrder* field maps to *ase:ServiceOrderNumber*. The B2B Procedures use *RetServiceOrder* to relate the data communicated in the various Transactions **across Procedures**.

b. The requesting transaction (ase:ServiceOrderRequest) must contain the *ase:ServiceOrderNumber* and the responding transaction (ase:ServiceOrderResponse) must contain the same *ase:ServiceOrderNumber*.

Deleted: <#>While the rest of the Build Pack addresses normal National B2B Electricity processing, this section addresses the specific processing requirements for ServiceOrderRequests that are active when the cutover to the new processes occurs. This only affects the use of the *ase:Transaction@initiatingTransactionID* data element in ase:ServiceOrderResponses (used for both ServiceOrderResponses or ServiceOrderAppointmentNotifications).¶
<#>The other transactions of Tranche 1: ¶
<#>ase:MeterDataNotification, ¶
<#>ase:MeterDataVerifyRequest, ¶
<#>ase:MeterDataMissingNotification, ¶
<#>ase:ServiceOrderRequest, ¶
<#>ase:CustomerDetailsRequest, ¶
<#>ase:CustomerDetailsNotification, ¶
<#>ase:AmendMeterRouteDetails/AmendSiteAccessDetails and¶
<#>ase:AmendSiteAddressDetails.
¶
do not have any specific processing requirements for transitioning. ¶
<#>Where an ase:ServiceOrderResponse transaction is sent in response to a Service Order Request which was active when the cutover to the new processes occurred and which does not have an aseXML *ase:Transaction@transactionID*, the value of *ase:Transaction@initiatingTransactionID* in the ase:ServiceOrderResponse must be "CUTOVER".¶
<#>Users of the B2B Browser will be unable to input the "CUTOVER" value in ase:ServiceOrderResponse transactions. However, they will be able to send ase:ServiceOrderResponse with an *ase:Transaction@initiatingTransactionID* value of "CUTOVER" using the B2B Browser by preparing the transactio ... [14]

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1.9. Business Relationship between Transactions

1.9.1. Related B2B Transactions

a. There are other situations where B2B Transactions are related to each other, sometimes by the use of common fields, other times by the relationship between business processes.

b. Where a meter reading has been obtained (or attempted) as result of a specific ase:ServiceOrderRequest, the MDFF Data in an ase:MeterDataNotification may contain the *ase:ServiceOrderNumber* of the ase:ServiceOrderRequest (as the *RetServiceOrder* field in the MDFF Data).

c. This concept also assumes that one request transaction can result in multiple related transactions. An example is an ase:ServiceOrderRequest, which can result in three related transactions: an ase:ServiceOrderResponse (used as appointment notification in SA or ACT), an ase:ServiceOrderResponse - to respond to the service order request and, for most service order types, MDFF Data in an ase:MeterDataNotification. These may all be linked by the *RetServiceOrder* / *ase:ServiceOrderNumber* of the initiating ase:ServiceOrderRequest transaction.

d. Network billing invoices may also include information included in ase:ServiceOrderResponses, specifically service order numbers and product codes. There should also be a relationship between some charges in a network billing invoice and the data provided in the MDFF Data in an ase:MeterDataNotification.

e. An ase:ServiceOrderRequest may also have an associated ase:CustomerDetailsNotification, such as where there is move-out / move-in change of tenancy. These transactions do not have a direct transactional linkage via related fields.

1.9.2. Relationship between CATS and B2B Transactions

a. There are a number of related business activities supported by B2B and CATS transactions, such as transfers and NMI standing data updates. However, there is no direct transactional linkage between these two sets of Transactions.

1.10. Timestamp formats

a. Any field with a format of TIME or DATETIME in a message, transaction or acknowledgement:

- Must be time zone aware
  (i.e. structured as YYYY-mm-ddThh:mm:ss.sss+hh:mm or hh:mm:ss.sss+hh:mm). Ref: [4].
- *ase:MessageDateTime* = GMT plus 08.
- *ase:TransactionDateTime* = GMT plus 08

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- The time zone selected for date/time stamps in the body of aseXML transactions will be at the discretion of the sending party. The sending party must therefore ensure that the combination of the time and time zone accurately communicates the point in time being defined. For example, 2005-02-11T12:15:23.000+08:00 sent for a NMI in WA refers to a local time of 13:15:23 on the 11/02/2005 (since Daylight Savings is active).

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- All time values within a Service Order B2B transaction refer to the local time for the Site. Ref: [3] 1.9.1.

Key usage indicators

a. The following terms are used to define the business usage of the data elements in the transactions:

M	=	Mandatory (must be provided in all situations)
O	=	Optional
N	=	Not used
C	=	Conditionally mandatory. This element is mandatory if all of its parent elements are provided. This usage is limited to the schema usage column of the transaction data tables.

b. There are two types of optional elements (O):

- Elements that are mandatory in certain situations. Where there is a specific condition which determines the usage of an optional element, that condition will be defined in the 'Usage' column of the transaction data table.
- Elements that are optional under all conditions. This means that there is no obligation for Participants to send these elements or to process them on receipt.

c. The M, O, N are the business usage indicators and are based on the business rules for the transaction.

d. The M, O, N usage indicators used in the "B2B Procedure" columns of the Build Pack have been developed from M, R, O, N keys defined in the B2B Procedures. The following transformation rules were applied:

B2B Procedures	B2B Procedures columns of Build Pack
M	M
O	O
R	O plus definition of specific business conditions where the element is mandatory and business conditions where the element is not used. Definition of specific business conditions is provided in the 'Definition & Usage' column of the transaction tables.

B2B Procedures	B2B Procedures columns of Build Pack
N (M), N (O), N/R, R/M,	O plus definition of specific business conditions where the element is mandatory and business conditions where the element is not used. Definition of specific business conditions is provided in the 'Definition & Usage' column of the transaction tables.
N	N

Table 1-3: Key Usage Indicators

The following terms are used to define the aseXML schema usage of the data elements in the transactions:

M = Mandatory (must be provided in all situations)

O = Optional

C = Conditionally mandatory. This element is mandatory if all of its parent elements are provided. This usage is limited to the schema usage column of the transaction data tables.

2. Overview of Interfaces

2.1. Overview

This document details the specific aseXML transactions to be used to implement the B2B Procedures. The transactions are grouped according to the B2B Procedures.

Every group of specific transactions has one or more activity diagrams. These activity diagrams are based on the process diagrams in the B2B Procedures.

Each activity diagram is followed by the description of the aseXML transaction used in that process. The transaction is described by the aseXML schema diagram and the table with the transaction data definition. Sequence diagrams and transaction samples are also provided.

2.2. Differences between Electricity and Gas B2B Transactions

The processes and transactions used in Electricity B2B may appear to be similar to those used in the Gas Industry. However, Participants are advised there are differences between the two industries, primarily in the use of response transactions and transaction acknowledgements.

2.3. Scope

This document describes in detail the interfaces for the transaction groups listed in the following table.

Process	*ase:TransactionGroup*
Meter Data	MTRD
Service Orders	SORD
Customer and Site Details - Customer Details	CUST
Customer and Site Details - Site Details	SITE

Table 2-1: Transaction Groups

2.4. Delivery Priority

The Technical Delivery Specification details the delivery priority for each of the B2B Transactions. Ref: [5] 4.7 and [3] 2.8.

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Transaction	Priority
ase:ServiceOrderRequest	High for same day & next day Re-energisation or cancellations of same day Re-energisations or De-energisations. All other ase:ServiceOrderRequests are Medium priority
ase:ServiceOrderResponse	Medium
ase:CustomerDetailsRequest	Medium
ase:CustomerDetailsNotification	Medium
ase:CustomerDetailsNotification, *ase:MovementType* = "Reconciliation".	Low
ase:AmendMeterRouteDetails/AmendSiteAddressDetails	Medium
ase:AmendMeterRouteDetails/AmendSiteAccessDetails	Medium
ase:MeterDataNotification	Low
ase:MeterDataMissingNotification	Medium
ase:MeterDataVerifyRequest	Medium

Table 2-2: Transaction Priority

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3. Generic Interfaces

Detailed protocols and mechanisms for handling Business to Business messages and transactions are described in the Technical Delivery Specification. Ref: [5]. That document also contains detailed mapping between:

- Business Documents and aseXML transactions,
- Business Signals and aseXML Acknowledgment, aseXML message format and the Transaction model.

The Transaction model details the flow of aseXML Transactions and Acknowledgements between Participants via a centralised "hub" (the MSATS B2B Handler).

This document provides the generic protocol details not available in the Technical Delivery Specification but required and relevant for the exchange of the B2B messages and the transactions. Ref: [5].

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Section 0 contains simplified (high level) descriptions and mapping between the Business Documents/Business Signals and their aseXML realization counterparts: aseXML messages/transactions and the aseXML acknowledgement.

Section 3.2 details the the naming conventions for the B2B File.

Section 3.3 provides the structure and definition of the aseXML envelope including the ase:Header, ase:Transactions, and ase:Acknowledgements with ase:MessageAcknowledgement and ase:TransactionAcknowledgement.

It depicts the content of the generic aseXML ase:Event, used in the ase:MessageAcknowledgement and the ase:TransactionAcknowledgement.

It also provides a diagram with an example of the transaction exchange simulating aseXML implementation of the Request/Response Business Transaction patterns.

Section 3.4 details the correct XPaths to use to populate the NMI element.

3.1. aseXML implementation of business signals

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The B2B Procedures use the terms 'Business Documents' and 'Business Signals'.

Throughout the Procedures, the term 'Business Document' is used to refer to the key B2B messages or transactions sent between the various Participants. 'Business Signals' are *BusinessReceipt* or *BusinessAcceptance/Rejection*.

The term Business Document refers to an aseXML instance document containing a Transaction payload.

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The term *BusinessReceipt* refers to an aseXML message acknowledgement (*ase:MessageAcknowledgement*). A *BusinessReceipt* indicates that a Business Document has been received and its contents indicate if it is readable by the recipient.

The term *BusinessAcceptance/Rejection* refers to an aseXML transaction acknowledgement (*ase:TransactionAcknowledgement*). A *BusinessAcceptance/Rejection* indicates acceptance or rejection of a Business Document based on the application of business rules.

After receiving an aseXML message, the recipient will check that the message is readable and technically valid and, subject to the success of such validation, will send back an *ase:MessageAcknowledgement* confirming business receipt of the message. If the message is rejected, *ase:Codes* will be provided and the reasons for rejection will be provided in the *ase:MessageAcknowledgement*.

If the aseXML message is accepted, the recipient will perform all required technical and business validations against the transaction and, subject to success of these validations, will send back an *ase:TransactionAcknowledgement* confirming acceptance of the transaction or alternatively, rejecting the transaction. If the transaction is rejected, *ase:Codes* will be provided and the reasons for rejection will be provided in the acknowledgement.

Note: For simplicity of presentation, the diagrams used in this document do not show the *ase:MessageAcknowledgement* and *ase:TransactionAcknowledgements* associated with messages or transactions. Ref: [5] s3.2.4 for a diagram of a worked example of the Transaction Model applied to a Request and Response B2B interaction.

3.2. B2B File Naming Convention

The WA Build Pack Infrastructure User Guide defines the naming conventions for the B2B File. Refer also to:[5] 4.13.

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3.3. aseXML envelope

The envelope consists of three parts:

- a top level <aseXML> element
- a <Header> sub-element
- a payload sub-element.

For transactions, the payload sub-element used is ase:Transactions; while for acknowledgements, the sub-element is *ase:Acknowledgements.*

Diagram in Figure 3-1 outlines the structure of the aseXML envelope and *ase:Header* element.

The purpose of the header element is to

- Identify the business parties involved in the transaction exchange.

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- Uniquely identify each aseXML message.
- Provide information to allow the routing of the payload element to the appropriate application

3.3.1. Header

305 The *ase:Header* element is defined in Table 3-1: aseXML Header Data

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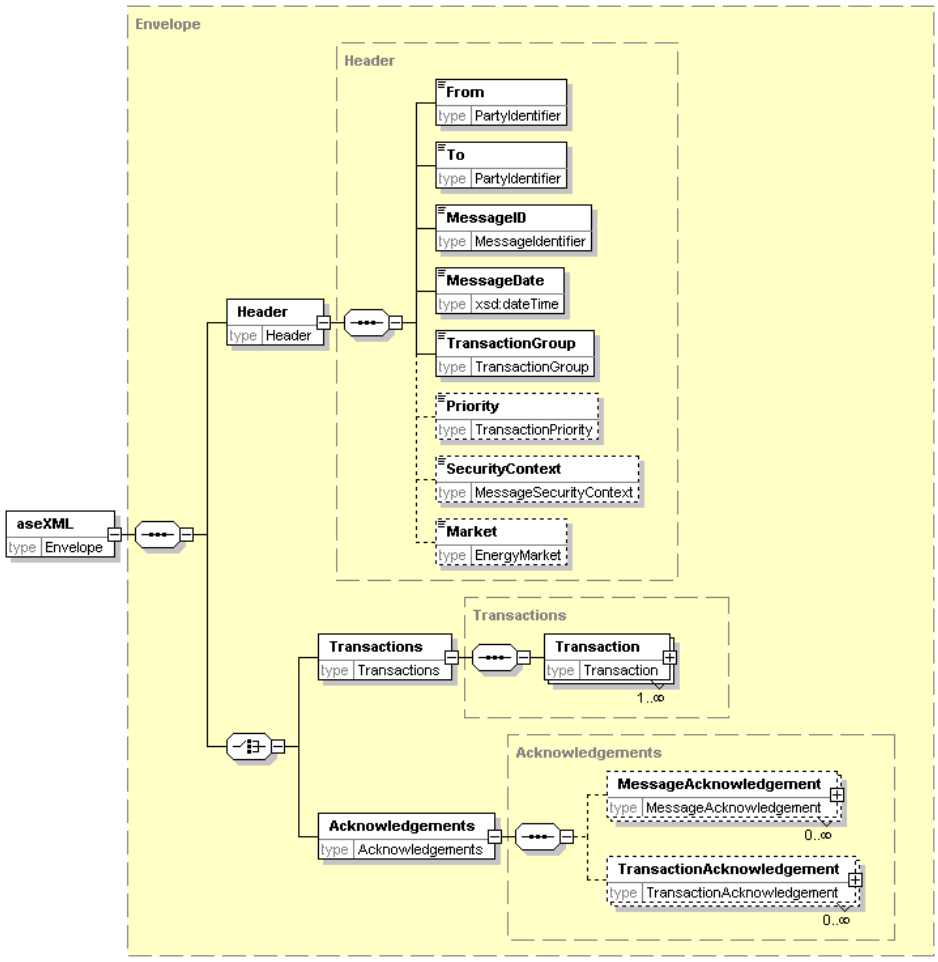

Figure 3-1 aseXML Envelope diagram

The XPath is *"/ase:aseXML/Header"*

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ase:Header			
aseXML Schema		**B2B Procedure**[1]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
From	M	M	Identifies the business party (Participant) who sends the message.
From@context	O	O	A context attribute defines the format of the identifier. By default, National Electricity Market participant identifiers are assumed (*Context*= "NEM").
From@description	O	O	Long name or description of the identifier
To	M	M	Identifies the business party (Participant) who receives the message.
To@context	O	O	A context attribute defines the format of the identifier. By default, National Electricity Market participant identifiers are assumed (context="NEM")
To@description	O	O	Long name or description of the identifier
MessageID	M	M	Message identifier; It needs to be unique for the sender.
MessageDate	M	M	DateTime at which the message was generated by the sender and should be indicated to the millisecond.
TransactionGroup	M	M	This is the transaction group of all transactions and acknowledgments. Must be populated with MTRD, SORD, CUST or SITE based on the transactions contained in the payload as per section 2.3. Where **message and/or** transaction acknowledgements are carried, **this will correspond to the *ase:TransactionGroup* that was provided in the message(s) and transaction(s) being acknowledged**. Where only message acknowledgements are carried, an *ase:TransactionGroup* of "MSGS" must **NOT** be used

[1] Only some of the details in these columns are specified in the B2B Procedures. Most of the details are from the aseXML Guidelines.

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ase:Header			
aseXML Schema		**B2B Procedure**[1]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Priority	O	M	Indicate sender's preference in terms of timeliness of processing for the payload. The three allowable values are "High", "Medium" and "Low". The value provided should conform to the Delivery Priority as per section 2.4.
SecurityContext	O	N[2]	Information to determine whether or not the sender is authorised to submit the transactions within the message.
Market	O	M	Identifies the energy market to which the transactions in the message belong. The value of "WAELEC" must be provided for WA B2B Transactions. "WAELEC" indicates the Western Australian Electricity Market.

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Table 3-1: aseXML Header Data

3.3.2. Transactions

The purpose of the ase:Transactions element is to provide a container for one or more aseXML transactions. Each transaction is contained within an ase:Transaction element. This element carries three attributes.

[2] Given the VPN authentication, the user identity has been established and this field is not required to duplicate the functionality.

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The XPath is *"/ase:aseXML/Transactions"*

ase:Transaction			
aseXML Schema		**B2B Procedure**[3]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Transaction	M	M	Contains the transaction.
Transaction@transactionID	M	M	Unique (for sender) identifier of the transaction. This field is important when correlating response transactions to the equivalent requests. Where a transaction is rejected, a new *ase:transactionID* should be allocated when it is resubmitted. Ref: [5] 4.14.3.
Transaction @transactionDate	M	M	DateTime at which the transaction was generated.
Transaction@initiatingTransactionID	O	O	***Mandatory:*** Where the transaction is a response to a previous request, the value matches that of the *ase:@transactionID* attribute of the initiating request transaction. The sender of the request is able to use this attribute to correlate responses with requests. Note: The value of "CUTOVER" is allowed for ase:ServiceOrderResponse transactions sent in response to Service Order Requests that were active when the cutover to the new processes occurred. Refer s1.8.2. ***Not used:*** With Request transaction.

Table 3-2: ase:Transaction Data

3.3.3. Acknowledgments

In order that the sender receive timely acknowledgement of message delivery, the receiver should respond immediately to each aseXML message with a message acknowledgement.

[3] Only some of the details in these columns are specified in the B2B Procedures. Most of the details are from the aseXML Guidelines.

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For every transaction, a transaction acknowledgement must be sent to the originator.

The following diagram outlines the *ase:MessageAcknowledgement* and *ase:TransactionAcknowledgement* and its position in the envelope.

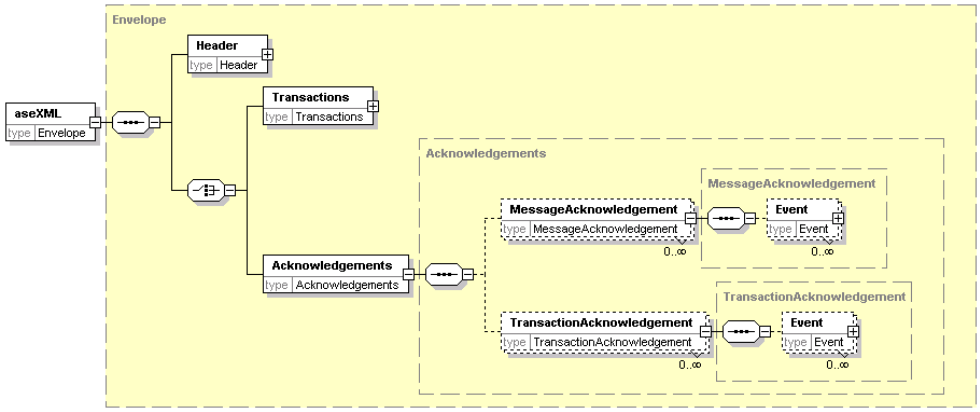

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Figure 3-2 AseXML message and transaction acknowledgments

The XPath is *"/ase:aseXML/Acknowledgements/MessageAcknowledgement"*

ase:MessageAcknowledgement			
aseXML Schema		**B2B Procedure**[4]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
@initatingMessageID	M	M	ase:*MessageID* element in the header of the message being acknowledged.
@receiptID	O	O	***Mandatory:*** The *ase:receiptID* is a unique identifier assigned by the receiver of a message to identify the processing they intend to perform as a result of receiving it. ***Not used:*** Where the message is rejected
@receiptDate	M	M	DateTime at which the message was processed/validated
@status	M	M	Two values allowed: “Accept” or “Reject”. “Accept” indicates the message is accepted with no *ase:Events* with a severity of “Error”. “Reject” indicates the message was rejected. The receiver will perform no further processing on the contained transactions. The acknowledgement should carry at least one *ase:Event* with a severity of “Error”. In the case of “Reject”, the message acknowledgement will contain one or more *ase:Event* elements detailing the errors detected in the message. Examples might include schema validation errors.
@duplicate	O	O	Can be ‘YES’ or ‘NO’ More details in the aseXML Guidelines. Ref: [6]

[4] Only some of the details in these columns are specified in the B2B Procedures. Most of the details are from the aseXML Guidelines.

ase:MessageAcknowledgement			
aseXML Schema		**B2B Procedure**[4]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Event	O	O	***Mandatory:*** If the Sender of the acknowledgement intends to reject or accept a part of the data provided. ***Not Used:*** If the Sender of the acknowledgement intends to wholly accept the transaction data provided. ***Note:*** An *ase:Code* of 0 with *ase:Event@severity* = "Information" may be used to indicate the full acceptance. Refer 3.3.4 for details. See Appendix D for usage rules.

330 **Table 3-3: Message Acknowledgment Data**

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The XPath is *"/ase:aseXML/Acknowledgements/TransactionAcknowledgement"*

ase:TransactionAcknowledgement			
aseXML Schema		**B2B Procedure**[5]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
@initiatingTransactionID	M	M	Corresponds to the value of the *ase:@transactionID* attribute on the container element for the transaction.
@receiptID	O	O	***Mandatory:*** The *ase:receiptID* is a unique identifier, assigned by the receiver of a transaction, to identify the processing they intend to perform as a result of receiving it. ***Not used:*** Where the transaction is rejected
@receiptDate	M	M	DateTime at which the transaction was queued for processing.

[5] Only some of the details in these columns are specified in the B2B Procedures. Most of the details are from the aseXML Guidelines.

ase:TransactionAcknowledgement			
aseXML Schema		**B2B Procedure**[5]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
@status	M	M	Can be: “Accept”, “Partial” or “Reject”. “Accept” indicates the transaction is accepted with no errors detected. The acknowledgement may carry ”Information” or “Warning” events. “Partial” indicates that the transaction will be processed but portions of it were in error and will be ignored. An example of this might be meter data records. The acknowledgement should carry at least one *ase:Event* with a *ase:@severity* of “Error”, except for ase:MeterDataMissingNotification and ase:MeterDataVerifyRequest, which must only have *ase:Event(s)* with an *ase:@severity* of “Information”. (Ref: [1] 2.5.c.2, 2.6.e.2). “Reject” indicates the transaction was rejected. The receiver will perform no further processing of the transaction. In the case of a request transaction, no response transactions, where normally expected, will be generated. The acknowledgement should carry at least one *ase:Event* with a severity of “Error”; except for ase:SiteAddressNotification, which requires at least one *ase:Event* with an *ase:@severity* of “Information”. Ref: Appendix C for the list of Events.

ase:TransactionAcknowledgement			
aseXML Schema		**B2B Procedure**[5]	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
@duplicate	O	O	Can be 'YES' or 'NO' More details in the aseXML Guidelines Ref: [6] 10.6 and Technical Guidelines Ref: [4] 4.14
Event	O	O	***Mandatory:*** If the Sender of the acknowledgement intends to reject or accept a part of the data provided. ***Not Used:*** If the Sender of the acknowledgement intends to wholly accept the transaction data provided. ***Note:*** An *ase:Code* of 0 with *ase:Event@severity* = "Information" may be used to indicate the full acceptance. Refer 3.3.4 for details. See Appendix D for usage rules.

Table 3-4: ase:TransactionAcknowledgement Data

3.3.4. Generic EVENT

The aseXML acknowledgment uses the generic Event element for error reporting. Attached schema diagram Figure 3-3 and the table Table 3-5 outline the structure and the definitions of the Event element.

aseXML Event element can be used as a standalone or in the aseXML envelope Figure 3-2.

The XPaths are:
"/ase:Event"
"/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event"
"/ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event"

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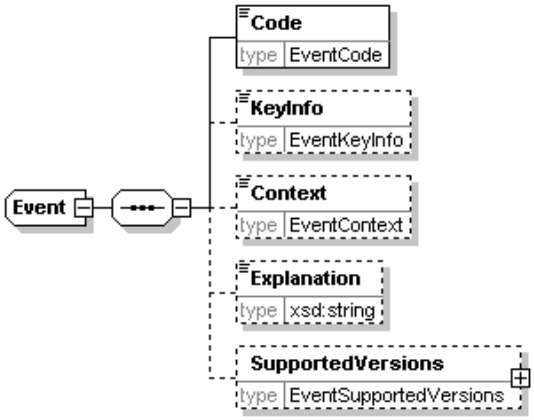

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Figure 3-3 aseXML Event Element

ase:Event			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
@class	O	O	The following classes can be used: 'Message', 'Application'(default) and 'Processing'.
@severity	O	O	The following values can be used for B2B: 'Information', 'Warning' and 'Error'. 'Fatal' is not used.
Code	M	M	A code to indicate acceptance or the reason for the rejection. Applicable codes are in Appendix C. ***Note:*** The relationship between the *ase:Code* and the *ase:Code@description* is not enforced. It is provided for the benefit of manual interpretation. Regardless of the *ase:Code@description*, the *ase:Code* value is used for any automated processing.
Code@description	O	O	A description of the code element that contains the text description for the Event Code. Applicable code descriptions are in Appendix C. Usage: Should be provided when the Code is outside the aseXML reserved range (>999).

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ase:Event			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
KeyInfo	O	O	Service Orders Process: The reference or key information (*ase:ServiceOrderNumber*) of the transaction being accepted or rejected. Usage: ***Mandatory*** Meter Data Process: If this field is populated with a number, the number is the line number within the CSV data block that the event occurred. If the field is not populated, the *ase:EventCode* refers to the aseXML transaction, not the .csv data. Usage: ***Mandatory*** where the *ase:@status* is "Partial". Customer & Site Details Notification Process: The *ase:NMI* of the transaction being rejected. Usage: ***Mandatory***
Context	O	O	The Data Element in the received Business Document (e.g. *ase:ScheduledDate*) that causes the Event. Meter Data Process: For an error in the .csv data block (*ase:KeyInfo* is populated) this will be a copy of the line where the event was found. Where the line is longer than the field size available, the field is to be fully populated starting from the first character of the line. Usage: ***Mandatory*** whenever a specific element that caused the Event can be identified. Usage applicable for all processes.

ase:Event			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Explanation	O	O	An explanation of the Event. ***Mandatory*** where the Business Event requires an Explanation (Ref. [Appendix C]), or the code used is of a generic nature and further explanation is required. Ref. [6] 11.6. Business Events are described in Appendix C.
SupportedVersions	O	O	Indicates the versions of the transaction that are supported by the receiver via one or more <Version> sub-elements. ***Mandatory*** where the condition of an unsupported transaction version is indicated.

Table 3-5: ase:Event Data

3.3.5. A Sample aseXML Transaction Exchange

B2B Procedures have been developed based on Request/Response and Notification Business Transaction patterns to facilitate the electronic transfer of business documents.

The diagram Figure 3-4 below provides a simplified example of a Request/Response aseXML implementation of the Request/Response Business transaction exchange between a Sender and a Receiver. Detailed protocols and mechanisms for handling Business to Business messages and transactions are described in the Technical Delivery Specification [5]. The message exchange conditions are provided in Table 3-6:

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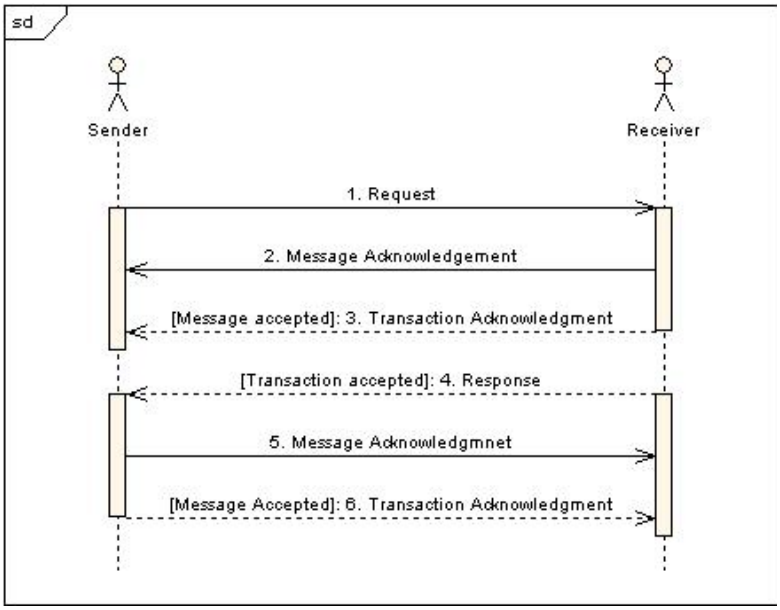

Figure 3-4 Request - Response aseXML message model

ID	aseXML Message	From Object	To Object
1	Request (*ase:MessageID, ase:Transaction@transactionID)*	Sender	Receiver
2	Message Acknowledgment *ase:MessageAcknowledgement@initiatingMessageID = ase:MessageID* of Request)	Receiver	Sender
3	If Message accepted: Transaction Acknowledgment *ase:TransactionAcknowledgement@initiatingTransactionID = ase:Transaction@transactionID* of Request)	Receiver	Sender
4	If Transaction accepted: Response (*ase:Transaction@initiatingTransactionID = ase:Transaction@transactionID* of Request)	Receiver	Sender
5	Message Acknowledgment (*ase:MessageAcknowledgement@initiatingMessageID = ase:MessageID* of Response)	Sender	Receiver
6	If Message accepted: Transaction Acknowledgment (*ase:TransactionAcknowledgement@initiatingTransactionID = ase:Transaction@transactionID* of Response)	Sender	Receiver

Table 3-6: Request - Response aseXML model steps

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3.4. Population of NMI in transactions

In some B2B electricity transactions there are multiple ways to populate the NMI. These transactions are: ase:MeterDataVerifyRequest, ase:MeterDataMissingNotification, ase:ServiceOrderRequest and ase:ServiceOrderResponse.

If provided, NMI always **has** to be populated in the following paths per respective transactions:

Transaction	aseXML path for NMI
ase:MeterDataVerifyRequest	*"/ase:aseXML/Transactions/Transaction/MeterDataVerifyRequest/VerifyRequestData/NMI"*
ase:MeterDataMissingNotification	*"/ase:aseXML/Transactions/Transaction/MeterDataMissingNotification/MissingMeterData/NMI"*
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ServiceOrder/NMI"*
ase:ServiceOrderResponse	*"/ase:aseXML/Transactions/Transaction/ServiceOrderResponse/ServiceOrder/NMI"*

Table 3-7: NMI position in the transactions

Deleted: <#>B2B Enhanced Validation module ¶
As part of the Tranche 1 implementation NEMMCO has developed a Java application that can be used to validate the data within a transaction against the usage requirements specified in the B2B Procedures. The module supports the B2B Browser Application (Ref: [10]), the Virtual Participant component of the central Testing environment, and Industry Participants' implementations.¶
Following schema validation, the module will perform the following validations for each of the B2B Transactions.¶
<#>Field Size and data type for each field is as specified in the MSATS Procedures – Business to Business Procedures for each Transaction Type. (In some cases these differ from the schema definition.). Note: This excludes the MDFF Data in an ase:MeterDataNotification;¶
<#>Rules relating to population of fields (mandatory, optional and not required) as defined in the MSATS Procedures – Business to Business Procedures for each transaction type;¶
<#>Co-occurrence rules as defined in MSATS Procedures – Business to Business Procedures. For example in Service Order Request, Service Order Sub Type is restricted based on the Service Order Type selected; and¶
<#>Enumerated lists to be further restricted to contain only values valid for electricity transactions where the schema defined list contains values for both Gas and Electricity transactions.¶
Details of the module are available on NEMConnect..¶
The use of the module by a Participant does not remove the obligation on Participants to validate Transactions per the B2B Procedures.

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4. Specific Interfaces

4.1. Meter data

4.1.1. Overview

This group of transactions delivers MDFF Data to Participants, allows the appropriate Participant to request MDFF Data from a MDP, or raise a query on MDFF Data. Ref. [1].

The transactions are exchanged between MDPs and Meter Data Recipients. Meter Data Recipients are FRMPs, DNSPs, TNSPs, LRs and MDPs.

There are three distinct business processes associated with this Meter Data process. They are implemented as three different aseXML transactions. The following table shows the Meter Data group of Business Documents and their corresponding aseXML transactions. These transactions belong to the Meter Data (MTRD) Transaction Group in aseXML.

Business Document	Transaction Group	aseXML Transaction	Business context
MeterDataNotification	MTRD	ase:MeterDataNotification	The provision of MDFF Data.
ProvideMeterData Request	MTRD	ase:MeterDataMissing Notification	Requests for the latest version of MDFF Data held by the MDP or for requests for historical consumption data in accordance with the Customer Transfer Code 2004 and Metering Code 2005.
VerifyMeterData Request	MTRD	ase:MeterDataVerify Request	The querying of MDFF Data.

Table 4-1: List of Meter Data Transactions

The diagram below outlines the meter data process and use of the aseXML transactions in the process.

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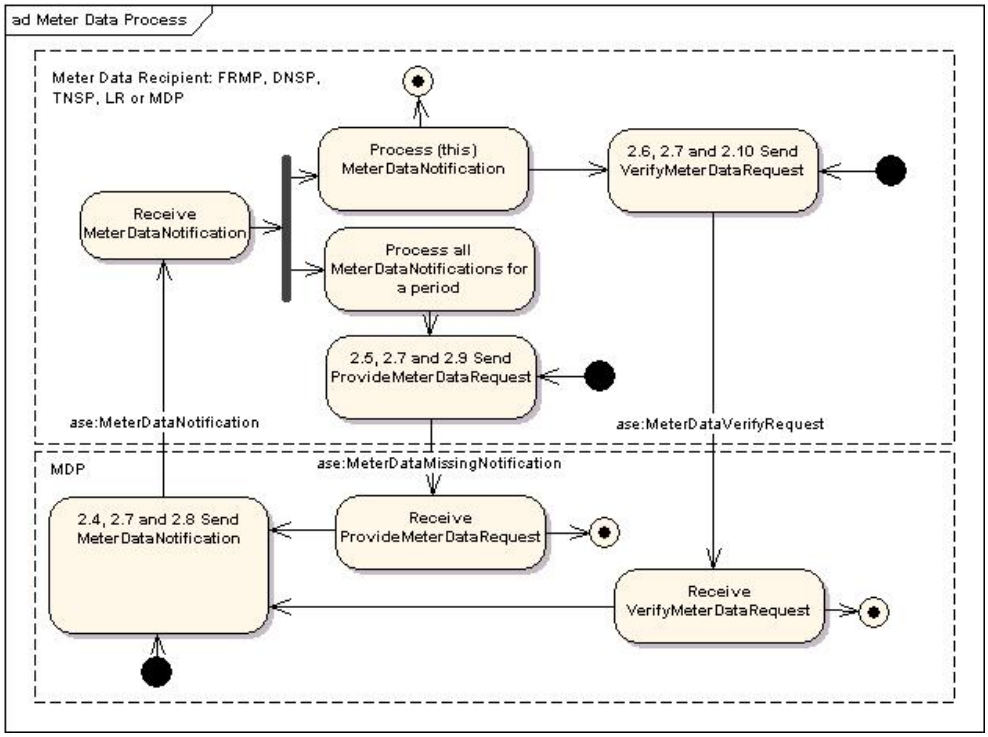

395 **Figure 4-1 Meter Data Process Overview**

4.1.2. Meter Data Notification

Meter data is transferred from a MDP to the relevant Meter Data Recipients for the Connection Point. The meter data is provided as MDFF Data included in an ase:MeterDataNotification transaction.

400 The diagram below shows the sequence of events for this transaction:

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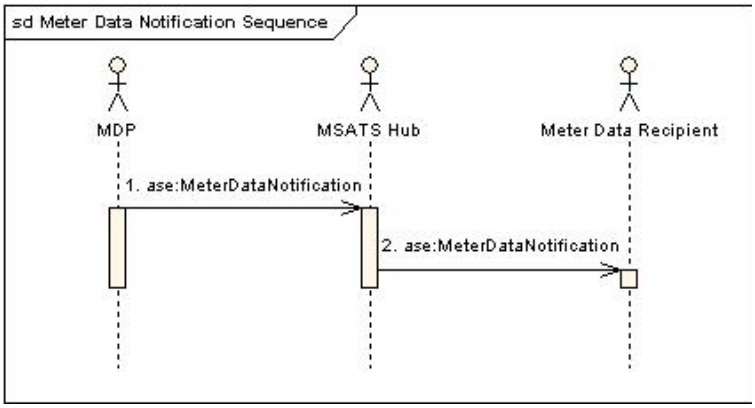

Figure 4-2 Meter Data Notification Sequence Diagram

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ID	aseXML Transaction	From Object	To Object	B2B Procedure Ref
1	ase:MeterDataNotification	MDP	B2B Hub	MD 2.4 & 2.8
2	ase:MeterDataNotification	B2B Hub	Meter Data Recipient	

Table 4-2: Meter Data Notification Sequence

Upon receipt of an ase:MeterDataNotification from an MDP, the Meter Data Recipient must return an *ase:MessageAcknowledgement* to the MDP to confirm the receipt of that ase:MeterDataNotification.

If there are problems with the data within the file from a business perspective (technical problems would be handled using a *ase:TransactionAcknowledgement*) then these problems with the data must be communicated to the MDP via either an ase:MeterDataMissingNotification or an ase:MeterDataVerifyRequest. Ref: [1] 2.4.c)

Where a ase:MeterDataNotification sent in response to an ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest is not accepted via the *ase:TransactionAcknowledgement* (with a ase:@status of "Reject" or "Partial") the MDP must ensure that any additional ase:MeterDataNotification sent to rectify the issue contains an *ase:Transaction@initiatingTransactionID* that corresponds to the *ase:Transaction@transactionId* value of the original Request.

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4.1.2.1. ase:MeterDataNotification

Transaction Definition Table cross-reference	This interface realises the MeterDataNotification transaction from the Meter Data B2B Procedure. Ref: [1].
Trigger	This interface is triggered as part of the MDP's normal production process obligations, or in response to the receip of an ase:MeterDataMissingNotification or ase: MeterDataVerifyRequest.
Pre-conditions	MDP has meter data to provide to a Meter Data Recipient, or MDP has accepted an ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest.
Post-conditions	Meter Data Recipient application has provided an *ase:TransactionAcknowledgement* to the ase:MeterDataNotification.
Transaction acknowledgment specific event codes	Refer to Appendix C.

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Table 4-3: ase:MeterDataNotification Summary

The ase:MeterDataNotification transaction transfers the Meter Data in MDFF format (Ref: [7]) from the MDP to the relevant Code Participants.

425 **Transaction Data Elements**

The XPath is *"/ase:aseXML/Transactions/Transaction/MeterDataNotification"*

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Transaction:	ase:MeterDataNotification		
Received From:	MDP		
Sent To:	Meter Data Recipient		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Usage**
CSVConsumptionData Or *CSVIntervalData*	M	M	The transaction must contain embedded data in CSV format for either basic or interval meters, but not both. This data is to be provided in the industry standard file format for basic meter data, or the standard file format for interval meter data. Ref: [7].
ParticipantRole/Role	C	M	The market role of the Participant to whom the data is being provided. Participant Role as published in MSATS.

Table 4-4: ase:MeterDataNotification Data

430 B2B Procedure field *RequestID* is implemented in aseXML as *@initiatingTransactionID* attribute on the *ase:Transaction* element. More details provided in 1.8.

The XPath is "*/ase:aseXML/Transactions/Transaction*"

ase:Transaction			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Transaction@initiating TransactionID	O	O	The *ase:Transaction@transactionID* provided in the initiating Request. ***Mandatory*** when the transaction is sent to the requesting Participant as a response to a ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest. ***Not used*** when transaction sent as part of the normal meter data notification process.

Table 4-5: ase:Transaction Data

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The transaction is implemented as the ase:MeterDataNotification transaction in aseXML. The ase:MeterDataNotification transaction uses the *ase:MeterDataNotification* type, which has the following format:

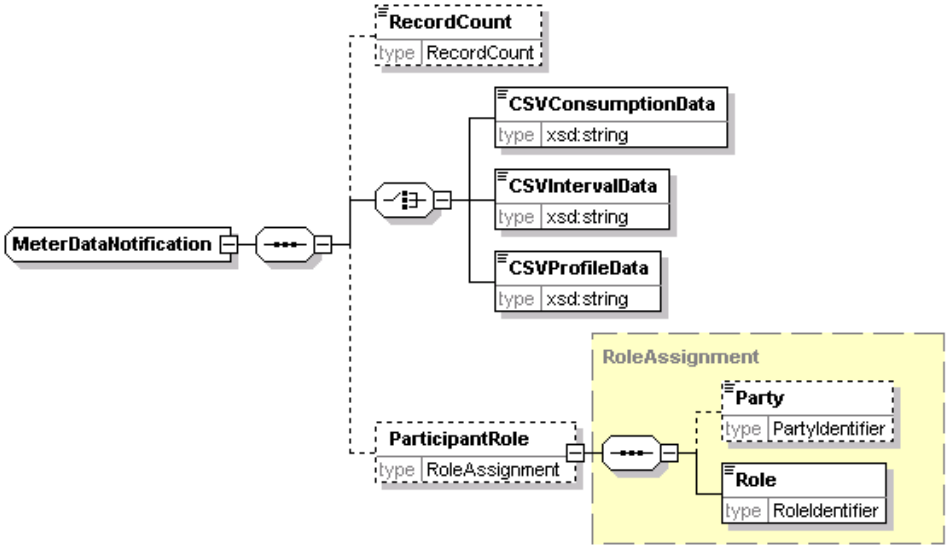

Figure 4-3 *MeterDataNotification* type in aseXML schema

XML Sample – Consumption data

Scenario:

- The element *ase:CSVConsumptionData* has been populated with a NEM13 MDFF file. NEM13 MDFF file format is described in "MDFF Specification: NEM12 & NEM13". Ref: [7].
- The sample has the *@ase:initiatingTransactionID* exluded – to indicate that this Notification has been generated as part of the normal meter reading process and ***not*** a response to an ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest.
- Includes various examples of Opening reads (with forward estimates), as well as Re-energisation readings and Normal scheduled readings.


```
<?xml version="1.0" encoding="ISO-8859-1" ?>
- <ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
    instance" xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
  - <Header>
      <From description="Western Power Networks">WPNTWRKS</From>
      <To description="Synergy Energy">WPRTL</To>
      <MessageID>WPNTWRKSMSG-17834939</MessageID>
      <MessageDate>2008-07-28T23:09:32+08:00</MessageDate>
      <TransactionGroup>MTRD</TransactionGroup>
      <Priority>Low</Priority>
      <Market>WAELEC</Market>
    </Header>
  - <Transactions>
    - <Transaction transactionID="WPNTWRKS--24839136" transactionDate="2008-07-
        28T23:09:32+08:00">
      - <MeterDataNotification version="r17">
          <CSVConsumptionData>100,NEM13,200807282309,WPNTWRKS,WPRTL
            250,8001488411,11,007,11,,210AM157,E,83637,20060117120000,S,,,83637,200603
            09120000,A,,,0,KWH,20080827,20080728143630,
            250,8001869526,11,007,11,,0181045384,E,000000,20061010120000,A,,,004816,20
            080909000000,E61,,,0,KWH,20080909,20080728185751,
            250,8001869526,11,007,11,,0181045384,E,000000,20061010120000,A,,,000257,20
            061113120000,A,,,257,KWH,20080909,20080728185751,
            250,8001869526,11,007,11,,0181045384,E,000257,20061113120000,A,,,000694,20
            070109065203,A,,,437,KWH,20080909,20080728185752,
            250,8001869526,11,007,11,,0181045384,E,000694,20070109065203,A,,,001008,20
            070309094521,A,,,314,KWH,20080909,20080728185752,
            250,8001869526,11,007,11,,0181045384,E,001008,20070309094521,A,,,001429,20
            070514120013,A,,,421,KWH,20080909,20080728185752,
            250,8001488411,11,007,11,,210AM157,E,83637,20060309120000,A,,,83637,200705
            16000000,A,,,0,KWH,20080827,20080728143643, 550,N,,S,
            250,8001545968,000000001111,007,11,,0200076867,E,000000,20080722000000,A,
            ,,000058,20080807000000,E61,,,0,KWH,20080807,20080728155054, 550,A,,E,
            250,8001544014,000000001111,007,11,,10W4246,E,31333,20080610145606,A,,,32
            041,20080722000000,A,,,708,KWH,20080807,20080728155032, 550,N,,A,
            250,8001199725,11,007,11,,410AM75321,E,84026,20080529000000,A,,,86621,2008
            0722000000,A,,,2595,KWH,20080916,20080728091639, 550,S,CITM_145310_1,N,
            250,8002027092,0000000011,007,11,,0200064641,E,000039,20080603141055,A,,,0
            00043,20080728155000,A,,,4,KWH,20080925,20080728155106, 550,N,,A,
            250,8002019951,0000000011,007,11,,0200055926,E,000029,20080507084256,A,,,0
            00040,20080728155400,A,,,11,KWH,20080902,20080728155514, 550,N,,A,
            250,8001856355,11,007,11,,15M85070,E,31867,20080721111741,A,,,31867,200807
            28161200,A,,,0,KWH,20080917,20080728161402,
            550,N,,G,TSPC_028782_1</CSVConsumptionData>
        </MeterDataNotification>
      </Transaction>
    </Transactions>
  </ase:aseXML>
```


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XML Sample – Interval data

Scenario:

- The element *ase:CSVIntervalData* has been populated with a NEM12 MDFF data file. The NEM12 MDFF file format is described in "MDFF Specification: NEM12 & NEM13". Ref: [7].
- The sample has the *@ase:initiatingTransactionID* populated – to indicate that this Notification has been generated as a response to an ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest.
- *@ase:initiatingTransactionID* would excluded if the transaction is sent as part of the normal meter data notification process (see Table 4-5).
- The 100 record indicates that the file was created on 28/07/2008 at 20:03 by the Participant 'WPNTWRKS' and the data is for the Participant 'WPRTL'.
- The first NMI (800100900) has one meter

  The meter (0121000052) has three registers that measure:

  • Export Wh (E1)

  • Export varh (Q1)

  • Export vah (T1)

  The file includes readings for the 26/7/2008 and 27/7/2008 for each register.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
    instance" xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
- <Header>
<From description="Western Power Networks">WPNTWRKS</From>
<To description="Synergy Energy">WPRTL</To>
<MessageID>WPNTWRKSMSG-17832128</MessageID>
<MessageDate>2008-07-28T20:03:51+08:00</MessageDate>
<TransactionGroup>MTRD</TransactionGroup>
<Priority>Low</Priority>
<Market>WAELEC</Market>
</Header>
- <Transactions>
- <Transaction transactionID="WPNTWRKS--24836780" transactionDate="2008-07-28T20:03:51+08:00"
    initiatingTransactionID="WPRTL12345">
- <MeterDataNotification version="r17">
<RecordCount>12</RecordCount>
```

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```
<CSVConsumptionData>100,NEM12,200807282003,WPNTWRKS,WPRTL
200,8001000269,E1Q1T1,01,E1,,0121000052,kWh,30,
300,20080726,1726.200,1648.500,1746.000,1792.500,1786.200,1722.300,1747.200,1800.600,17
74.200,1711.200,1708.500,1694.100,1726.500,1685.400,1565.700,1635.600,1699.500,1728.000,
1734.900,1714.200,1620.000,1688.100,1620.300,1669.800,1767.300,1702.500,1657.800,1768.80
0,1667.100,1721.100,1745.400,1757.700,1795.200,1772.700,1705.200,1745.700,1669.500,1684.
800,1853.700,1800.000,1726.200,1765.500,1759.200,1768.200,1728.900,1798.200,1824.900,179
3.100,A,,,20080728064419,
300,20080727,1680.300,1673.700,1828.800,1814.100,1656.900,1843.500,1756.800,1670.100,17
79.300,1821.000,1792.500,1753.500,1558.800,1508.700,1650.600,1743.000,1706.700,1632.900,
1579.500,1771.800,1650.600,1586.700,1686.900,1706.700,1743.000,1791.900,1784.700,1809.90
0,1757.700,1779.600,1759.800,1789.500,1710.900,1591.500,1697.100,1743.300,1749.300,1824.
900,1800.900,1622.700,1735.800,1677.900,1684.800,1644.000,1662.300,1701.300,1683.900,164
6.700,A,,,20080728064419, 200,8001000269,E1Q1T1,02,Q1,,0121000052,kvarh,30,
300,20080726,676.200,653.700,686.700,708.900,706.200,689.100,695.700,712.500,705.600,692.
400,648.600,632.400,643.200,646.800,632.400,656.400,678.900,696.600,669.600,637.800,607.8
00,629.400,603.300,628.200,674.700,625.200,625.200,693.300,663.900,689.100,697.500,699.90
0,705.900,687.600,631.500,647.100,621.300,651.900,726.900,699.000,682.500,693.000,688.800
,699.300,684.900,714.900,717.600,711.600,A,,,20080728064423,
300,20080727,679.800,675.300,720.900,720.600,666.900,727.500,700.800,664.200,709.500,725.
700,701.400,659.700,570.000,549.900,655.200,690.600,683.400,660.000,637.200,703.800,661.8
00,635.400,669.600,668.700,687.600,704.700,703.800,709.800,697.800,706.200,702.000,704.10
0,677.100,636.900,635.700,635.400,640.200,716.700,708.900,651.000,686.700,669.000,666.600
,657.600,663.000,674.400,663.000,643.500,A,,,20080728064423,
200,8001000269,E1Q1T1,03,T1,,0121000052,kVAh,30,
300,20080726,1854.000,1773.900,1876.500,1927.800,1920.900,1855.200,1881.000,1936.800,19
09.500,1846.200,1827.900,1808.700,1842.600,1806.000,1689.000,1762.800,1830.300,1863.300,
1860.000,1829.400,1730.400,1802.100,1729.200,1784.400,1892.100,1813.800,1772.400,1900.20
0,1794.600,1854.300,1879.500,1892.400,1929.000,1901.700,1818.600,1862.100,1781.700,1807.
200,1991.400,1931.100,1856.700,1896.600,1889.700,1901.400,1860.000,1935.600,1961.100,192
9.600,A,,,20080728064427,
300,20080727,1812.900,1805.100,1965.900,1952.400,1786.500,1982.100,1891.800,1797.600,19
15.800,1960.500,1925.400,1873.800,1659.900,1606.200,1776.300,1875.000,1838.700,1761.600,
1703.400,1906.800,1778.700,1709.700,1815.000,1833.600,1873.800,1925.700,1918.800,1944.30
0,1891.500,1914.900,1894.800,1923.000,1840.500,1714.500,1812.600,1855.800,1863.300,1961.
100,1935.600,1748.700,1867.200,1806.600,1812.300,1770.900,1790.100,1830.300,1810.200,176
8.200,A,,,20080728064427, 900</CSVConsumptionData>
</MeterDataNotification>
</Transaction>
</Transactions>
</ase:aseXML>
```

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4.1.3. Provide Meter Data

The Meter Data Recipient uses the ase:MeterDataMissingNotification transaction to request the latest version of meter data. The MDP will provide the MDFF Data matching the Request to the Meter Data Recipient using the ase:MeterDataNotification transaction.

The activity diagram below shows a high level view of this process:

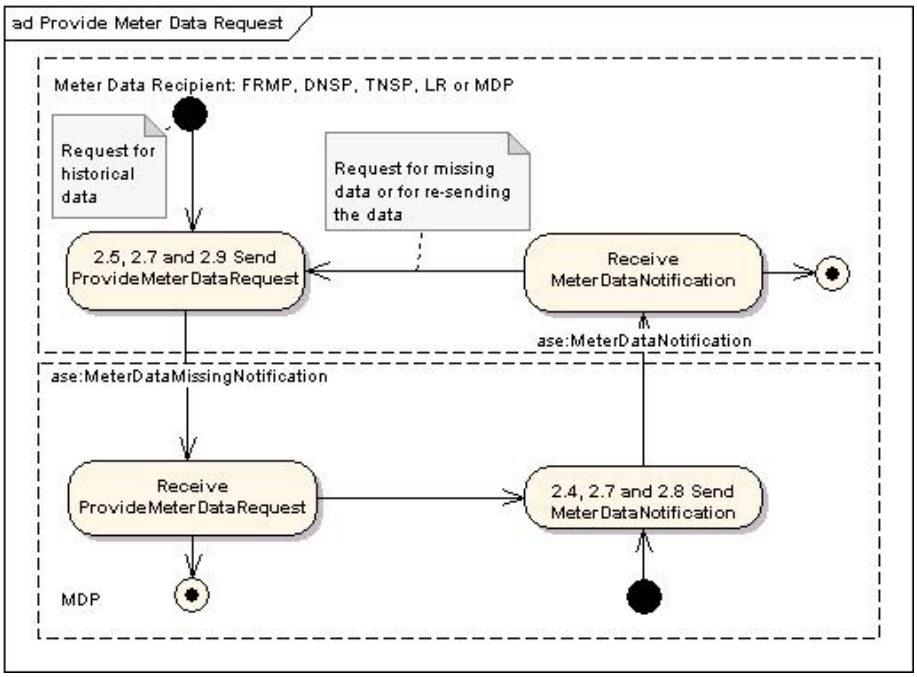

Figure 4-4 Provide Meter Data Activity Diagram (Ref [1] 2.5 & 2.9)

Process Sequence

A Meter Data Recipient will identify any NMIs for which meter data is required from a MDP and submit an ase:MeterDataMissingNotification transaction to the responsible MDP.

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The diagram below shows the sequence of events for this transaction:

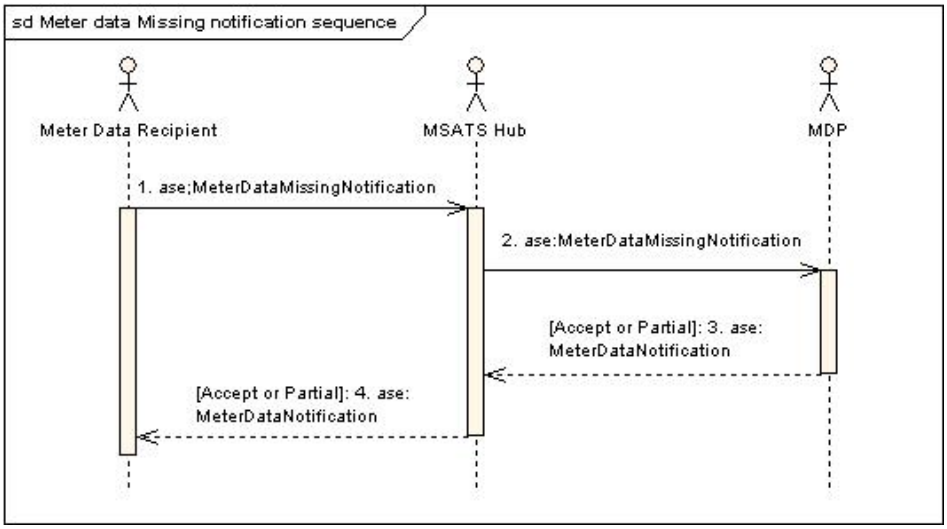

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Figure 4-5 Provide Meter Data Sequence Diagram

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref.
1	ase:MeterDataMissingNotification	Meter Data Recipient	B2B Hub	MD 2.5 & 2.9
2	ase:MeterDataMissingNotification	B2B Hub	MDP	
3	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataMissingNotification transaction)	MDP	B2B Hub	MD 2.4 & 2.8
4	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataMissingNotification transaction)	B2B Hub	Meter Data Recipient	

Table 4-6: Provide Meter Data Sequence

605 On receipt of an ase:MeterDataMissingNotification transaction the MDP will attempt to satisfy the Request. If the MDP is:

- Able to fully satisfy the request, the MDP will send an "Accept" *ase:TransactionAcknowledgement* and send a ase:MeterDataNotification transaction with the requested data;

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- Able to partially satisfy the request, the MDP will send a "Partial" *ase:TransactionAcknowledgement*, with appropriate *ase:Codes* (with an *ase:Severity* of "Information") and associated details, and send an ase:MeterDataNotification transaction with the data they are able to provide; or
- Unable to satisfy any part of the Request, the MDP will send a "Reject" *ase:TransactionAcknowledgement*, with appropriate *ase:Codes* (with at least one having an *ase:Severity* of "Error") and associated details, and must not send an ase:MeterDataNotification in response to the Request.

Ref: [1] 2.5.c for details regarding the acceptance (full or partial) or rejection of the ase:MeterDataMissingNotification.

Where an ase:MeterDataNotification is provided in response to an ase:MeterDataMissingNotification the MDP must ensure that the ase:MeterDataNotification contains the MDFF Data requested in the ase:MeterDataMissingNotification for that *ase:Transaction@transactionID*.

4.1.3.1. ase:MeterDataMissingNotification

Transaction Definition Table cross-reference	This interface realises the ProvideMeterDataRequest transaction from the Meter Data B2B Procedure. Ref: [1].
Trigger	This interface is triggered: • When a Participant reasonably believes that meter data for a NMI has not been received from an MDP. • Where a Participant requires historical data to which they are entitled. • Where a Participant requires data to be resent.
Pre-conditions	Participant requires meter data for a specific period.
Post-conditions	MDP has provided an *ase:TransactionAcknowledgement* to the initiating Participant. An ase:MeterDataNotification will be provided if the *ase:TransactionAcknowledgement* indicates full or partial acceptance of the ase:MeterDataMissingNotification.
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-7: ase:MeterDataMissingNotification Summary

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Transaction Data Elements

The XPath is *"/ase:aseXML/Transactions/Transaction/MeterDataMissingNotification/MissingMeterData"*

Transaction:	ase:MeterDataMissingNotification		
Received From:	Meter Data Recipient		
Sent To:	MDP		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Usage**
NMI	O	M	NMI for the Connection Point missing data.
NMI@checksum	O	O	NMI Checksum for the Connection Point missing data.
NMIStandingData/RoleAssignments/RoleAssignment/Role	C	M	The market role of the Participant requesting the MDFF Data. Participant Role as published in MSATS.
RequestPeriod/BeginDate	M	M	The start date for the period for which the Participant is requesting MDFF Data.
RequestPeriod/EndDate	O	O	The end date for the period for which the Participant is requesting MDFF Data.

Table 4-8: *ase:MeterDataMissingNotification* Data

B2B Procedure field *RequestID* is implemented in aseXML as *@transactionID* attribute on the *ase:Transaction* element. More details provided in 1.8.

The XPath is "/ase:aseXML/Transactions/Transaction/"

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ase:Transaction			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Transaction@transactionID	M	M	Participant defined reference, used for reference and tracking. Must be a new (unused) number, unique for the initiating Participant.

Table 4-9: *ase:Transaction* Data

The transaction is implemented as the ase:MeterDataMissingNotification transaction in aseXML. The transaction uses the *ase:MeterDataMissingNotification* type, which is in the following format:

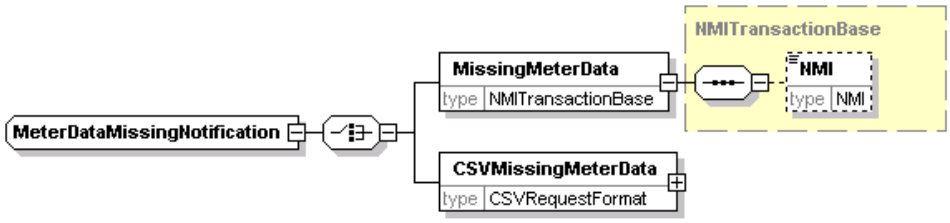

Figure 4-6 *ase:MeterDataMissingNotification* type

The *MissingMeterData* element implements *ase:ElectricityProvideMeterRequestData* type (xsi:type = '*ase:ElectricityProvideMeterRequestData*') displayed in Figure 4-7.

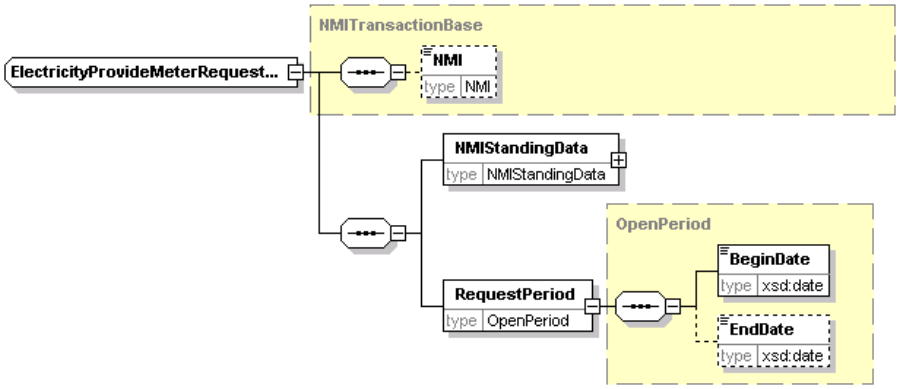

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Figure 4-7 *ase:ElectricityProvideMeterRequestData* type

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The *NMIStandingData* element implements *ase:ElectricityStandingData* type (xsi:type = '*ase:ElectricityStandingData*') displayed in Figure 4-8.

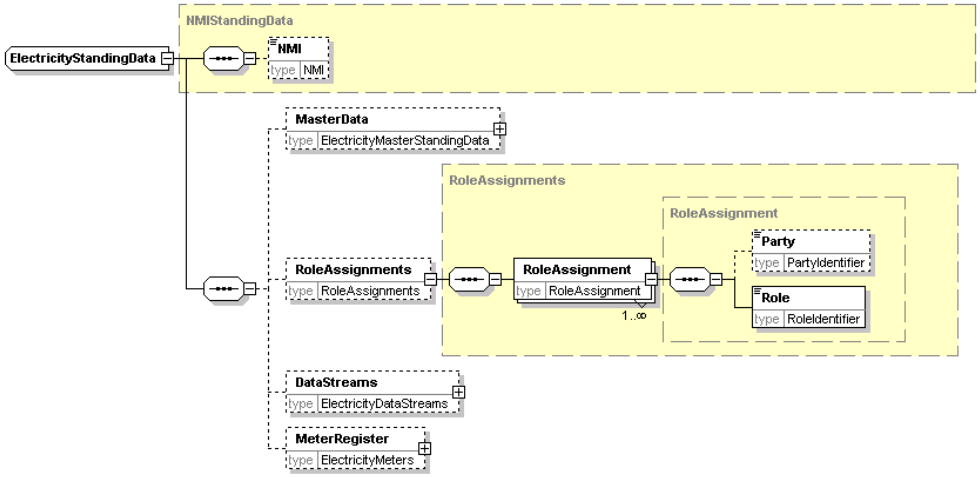

Figure 4-8 *ase:ElectricityStandingData* type in *ase:ElectricityProvideMeterRequestData*

XML Sample

Scenario:

The transaction contains a request to provide data for a given NMI and the date range.

```
<n:aseXML xmlns:n="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WP-MSG-000-476-418</MessageID>
        <MessageDate>2008-07-29T09:44:13.7400000+08:00</MessageDate>
        <TransactionGroup>MTRD</TransactionGroup>
        <Priority>High</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="MSC-MDH1476417" transactionDate="2008-07-
29T09:44:13.7400000+08:00">
            <MeterDataMissingNotification version="r14">
                <MissingMeterData version="r17" xsi:type="n:ElectricityProvideMeterRequestData">
                    <NMI checksum="1">8001019999</NMI>
                    <NMIStandingData xsi:type="n:ElectricityStandingData" version="r14">
                        <RoleAssignments>
                            <RoleAssignment>
                                <Role>FRMP</Role>
                            </RoleAssignment>
                        </RoleAssignments>
                    </NMIStandingData>
                    <RequestPeriod>
                        <BeginDate>2007-06-29</BeginDate>
                        <EndDate>2008-07-02</EndDate>
                    </RequestPeriod>
                </MissingMeterData>
            </MeterDataMissingNotification>
        </Transaction>
    </Transactions>
</n:aseXML>
```

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695 For ase:MeterDataNotification sample see XML sample for MeterDataNotification.

4.1.4. Verify Meter Data

The Meter Data Verification transactions are used when a Meter Data Recipient requires verification of meter data. Verification may be required if the MDFF Data provided is considered erroneous or if the previous Request has still not resolved the original issue.

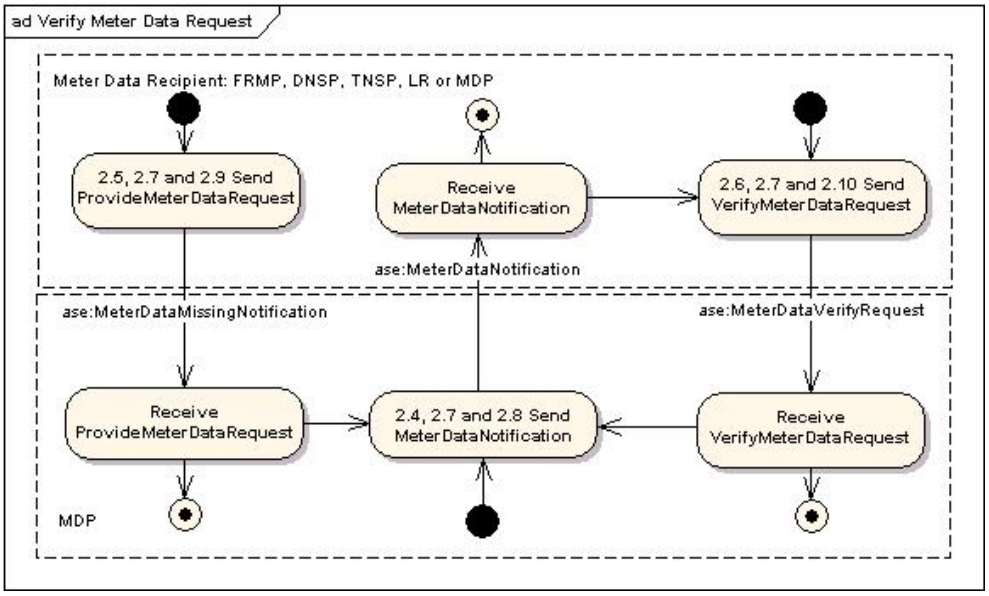

Figure 4-9 Meter Data Verification Activity Diagram (Ref [1] 2.6 & 2.10)

Process Sequence

When a Meter Data Recipient has a requirement to verify MDFF Data, the Meter Data Recipient generates an ase:MeterDataVerifyRequest transaction and forwards this to the MDP.

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The diagrams below show the sequence of events for this transaction:

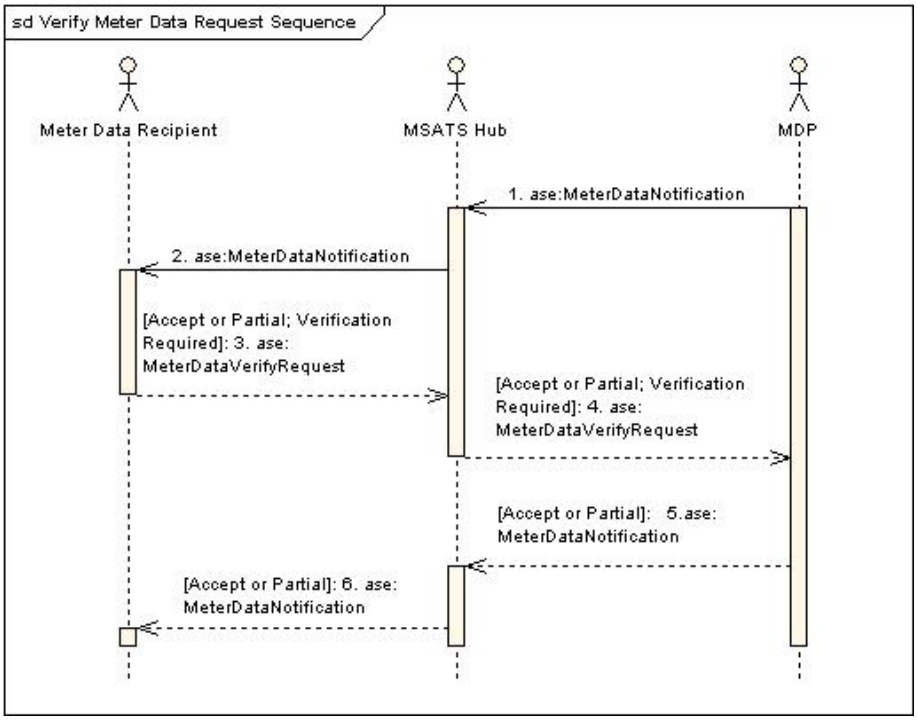

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Figure 4-10 Meter Data Verification Request Sequence Diagram

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:MeterDataNotification	MDP	B2B Hub	MD 2.4 & 2.8
2	ase:MeterDataNotification	B2B Hub	Meter Data Recipient	
3	ase:MeterDataVerifyRequest	Meter Data Recipient	B2B Hub	MD 2.6 & 2.10
4	ase:MeterDataVerifyRequest	B2B Hub	MDP	

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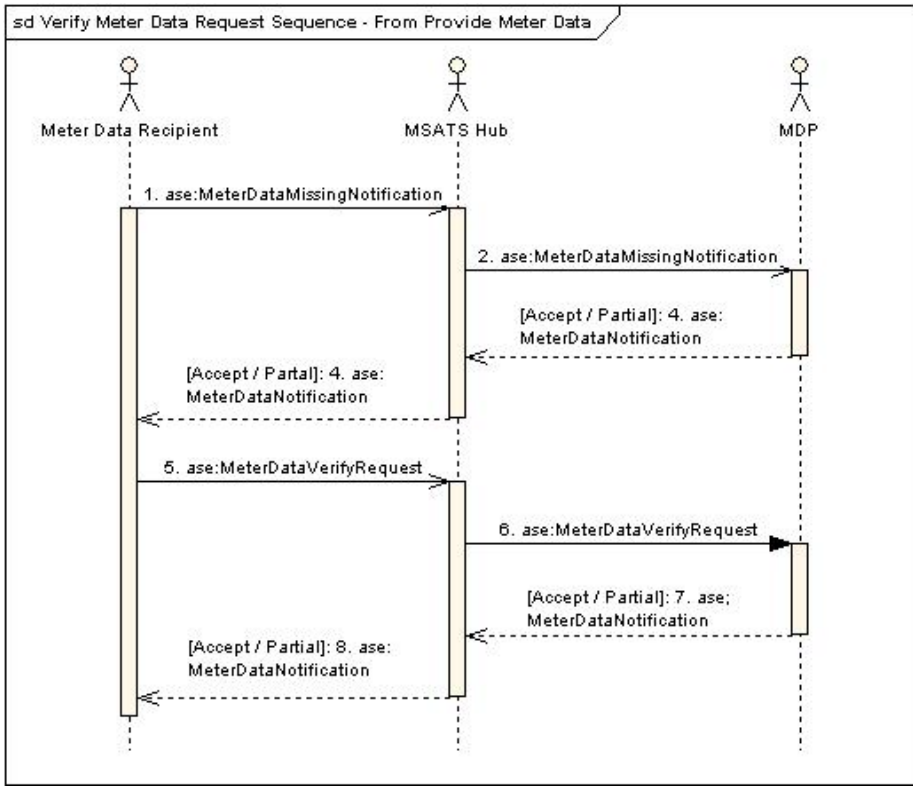
ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
5	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID = ase:Transaction@transactionID* of the ase:MeterDataVerifyRequest transaction)	MDP	B2B Hub	MD 2.4 & 2.8
6	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID = ase:Transaction@transactionID* of the ase:MeterDataVerifyRequest transaction)	B2B Hub	Meter Data Recipient	

Table 4-10: Meter Data Verification Request Sequence



715 **Figure 4-11 Meter Data Verification Request Sequence Diagram starting from Provide Meter Data**

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:MeterDataMissingNotification	Meter Data Recipient	B2B Hub	MD 2.5 & 2.9
2.	ase:MeterDataMissingNotification	B2B Hub	MDP	
3	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataMissingNotification transaction)	MDP	B2B Hub	MD 2.4 & 2.8
4	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataMissingNotification transaction)	B2B Hub	Meter Data Recipient	
5	ase:MeterDataVerifyRequest	Meter Data Recipient	B2B Hub	MD 2.6 & 2.10
6	ase:MeterDataVerifyRequest	B2B Hub	MDP	
7	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataVerifyRequest transaction)	MDP	B2B Hub	MD 2.4 & 2.8
8	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataVerifyRequest transaction)	B2B Hub	Meter Data Recipient	

Table 4-11: Meter Data Verification Request Sequence starting from Provide Meter Data

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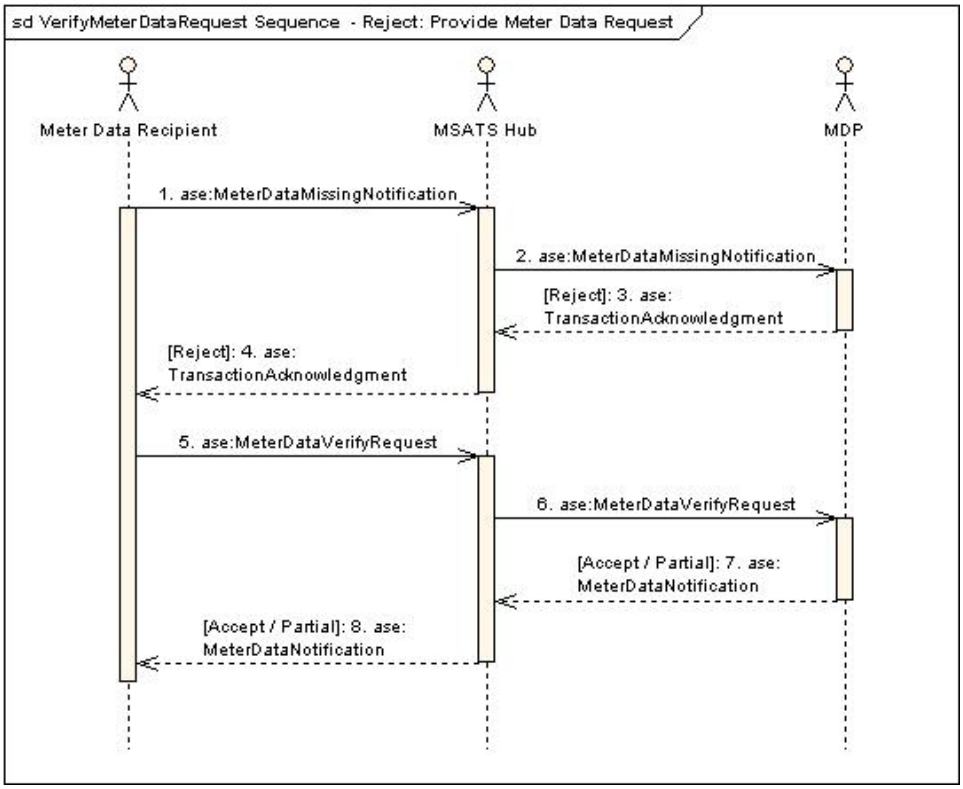

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Figure 4-12 Meter Data Verification Request Sequence Diagram with a rejected Provide Meter Data Request

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:MeterDataMissingNotification	Meter Data Recipient	B2B Hub	MD 2.5 & 2.9
2.	ase:MeterDataMissingNotification	B2B Hub	MDP	
3	*ase:TransactionAcknowledgement* (*ase:TransactionAcknowledgement@initiating TransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataMissingNotification transaction)	MDP	B2B Hub	MD 2.4 & 2.8
4	*ase:TransactionAcknowledgement* (*ase:TransactionAcknowledgementn@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataMissingNotification transaction)	B2B Hub	Meter Data Recipient	
5	ase:MeterDataVerifyRequest	Meter Data Recipient	B2B Hub	MD 2.6 & 2.10

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
6	ase:MeterDataVerifyRequest	B2B Hub	MDP	
7	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataVerifyRequest transaction)	MDP	B2B Hub	MD 2.4 & 2.8
8	ase:MeterDataNotification (*ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the ase:MeterDataVerifyRequest transaction)	B2B Hub	Meter Data Recipient	

Table 4-12: Meter Data Verification Request Sequence with a rejected Provide Meter Data Request

Every ase:MeterDataVerifyRequest transaction must have an *ase:InvestigationCode*. The meaning and usage of the *ase:InvestigationCode* values is detailed in section 2.10.1 of the Meter Data B2B Procedure.

The following *ase:InvestigationCodes* can only be used where an ase:MeterDataMissingNotification has already been used to attempt to satisfy the query.

- Incomplete Data
- Missing Datastream
- Require Actual Reading or Substitute
- Require Final Substitute
- Require Latest Version
- Scheduled Reading Required
- Service Order Reading Required

On receipt of an ase:MeterDataVerifyRequest transaction the MDP will attempt to satisfy the Request. If the MDP is able to fully or partially satisfy the request, the MDP will send the ase:MeterDataNotification transaction with the requested data. If the MDP is unable to satisfy the request, the MDP will reject it with an *ase:TransactionAcknowledgement* with appropriate *ase:Codes* and associated details, and must not send the ase:MeterDataNotification in response to the request.

The exception to the rule that an ase:MeterDataNotification is sent where the ase:MeterDataVerifyRequest is accepted is where an *ase:InvestigationCode* of “Recipient not responsible for the NMI” is used. Where an *ase:InvestigationCode* of “Recipient not responsible for the NMI” is used, and the MDP sends an *ase:TransactionAcknowledgement* with an *ase:@status* of “Accept”, the MDP must not send an ase:MeterDataNotification in response to the Request.

Ref: [1] 2. 6.e for details regarding the acceptance (full or partial) or rejection of the ase:MeterDataVerifyRequest.

The verification process is re-validation of the data that is held in the MDP's systems without an obligation to perform a field visit.

Where an ase:MeterDataNotification is provided in response to an ase:MeterDataVerifyRequest the MDP must ensure that the ase:MeterDataNotification contains the MDFF Data requested in the ase:MeterDataVerifyRequest for that ase:*Transaction@transactionID*.

4.1.4.1. ase:MeterDataVerifyRequest

Transaction Definition Table cross-reference	This interface realises the VerifyMeterDataRequest transaction from the Meter Data B2B Procedure.
Trigger	The triggers for this transaction include the following situations: The Participant reasonably believes the MDFF Data in the ase:MeterDataNotification is erroneous (including but not limited to a potential anomaly with part of the data); or The Participant reasonably believes that the response (the *ase:TransactionAcknowledgement* or ase:MeterDataNotification) provided to a previous Request has not resolved their query.
Pre-conditions	Participant requires verification of MDFF Data or further investigation of a previous ase:MeterDataMissingNotification.
Post-conditions	MDP has provided an *ase:TransactionAcknowledgement* to the initiating Participant. An ase:MeterDataNotification will be provided if the *ase:TransactionAcknowledgement* indicates full or partial acceptance of the ase:MeterDataVerifyRequest [except where an *ase:InvestigationCode* of "Recipient not responsible for the NMI" is used in the ase:MeterDataVerifyRequest].
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-13: ase:MeterDataVerifyRequest Summary

The ase:MeterDataVerifyRequest transaction is used by a Meter Data Recipient to request confirmation of MDFF data as supplied by a MDP.

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Transaction Data Elements

770 The XPath is *"/ase:aseXML/Transactions/Transaction/MeterDataVerifyRequest/VerifyRequestData"*

Transaction:	ase:MeterDataVerifyRequest			
Received From:	Meter Data Recipient			
Sent To:	MDP			
aseXML Schema		**B2B Procedure**		
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**		**Usage**
		Interval Data	**Basic Data**	
NMIStandingData/NMI	O	M	M	NMI for the Connection Point being queried
NMIStandingData/NMI@checksum	O	O	O	NMI Checksum for the Connection Point being queried.
NMIStandingData/RoleAssignments/RoleAssignment/Role	C	M	M	The market role of the Participant querying the MDFF Data. Participant Role as published in MSATS.
NMIStandingData/MeterRegister/WAMeter/SerialNumber	O	O	O	Meter serial number. ***Mandatory*** if the data being queried is at the single meter level or is at an individual data stream level. Ref: [1] 2.10.b for further usage details.
NMIStandingData/MeterRegister/WAMeter/RegisterConfiguration/Register/RegisterId	O	O	O	Register identifier stored in MSATS • May be provided where the data being queried relates to single *ase:RegisterID*.
NMIStandingData/MeterRegister/WAMeter/RegisterConfiguration/Register/Suffix	O	O	O	As defined in the National Metering Identifier Procedures (e.g. "E1","K1","Q2" etc.). • ***Mandatory*** if the data being queried is at an individual data stream level (ie. a single *ase:Suffix*). Ref: [1] 2.10.b for further usage details.

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Transaction:	ase:MeterDataVerifyRequest			
Received From:	Meter Data Recipient			
Sent To:	MDP			
aseXML Schema		**B2B Procedure**		
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**		**Usage**
		Interval Data	**Basic Data**	
InvestigationCode	M	M	M	All Codes must have details provided in *ase:InvestigationDescription.* Refer page 61 for further details
InvestigationDescription/CommentLine	M	M	M	Free text that may be used to assist the investigation.
RequestPeriod/BeginDate	M	M	M	The first day of the period the Participant is querying
RequestPeriod/EndDate	O	M	O	The last day of the period the Participant is querying.
Current/Read	C	N	O	Original meter reading provided by the MDP that is being queried. ***Mandatory*** for Basic Meters if any of the following *ase:InvestigationCodes* are used: • Confirm Reading For Vacant Site • Verify High Reading • Verify Low Reading • Confirm Zero Reading If this field is populated then the *ase:Suffix* must be populated and the *ase:RegisterID* may be populated.
Current/ReadDate	C	N	O	Date of the original meter reading. ***Mandatory*** for basic meters if *ase:CurrentRead* is populated.
Current/Consumption	C	N	O	Original consumption figure (expressed as kWh) provided in the MDFF Data that is being queried. ***Mandatory*** for basic meters if *ase:CurrentRead* is populated.

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Transaction:	ase:MeterDataVerifyRequest			
Received From:	Meter Data Recipient			
Sent To:	MDP			
aseXML Schema		**B2B Procedure**		
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**		**Usage**
		Interval Data	**Basic Data**	
NMIConfiguration/ NMISuffix	C	O	O	The NMIConfiguration of the MDFF data being queried. If this value is provided, the expected NMI Configuration or the perceived problem of the configuration must be provided in *ase:InvestigationDescription*. ***Mandatory*** where data being queried relates to the configuration of the site.

Table 4-14: ase:MeterDataVerifyRequest Data

775 B2B Procedure field *RequestID* is implemented in aseXML as *@transactionID* attribute on the *ase:Transaction* element. More details provided in 1.8.

The XPath is *"/ase:aseXML/Transactions/Transaction"*

ase:Transaction			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Transaction@transactionID	M	M	Participant defined reference, used for reference and tracking. Must be a new (unused) number, unique for the initiating Participant.

780 **Table 4-15: ase:Transaction Data**

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The transaction is implemented as the ase:MeterDataVerifyRequest transaction in aseXML.

The aseXML transaction ase:MeterDataVerifyRequest uses the
785 *ase:MeterDataVerifyRequest*, which is in the following format:

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Figure 4-13 ase:*MeterDataVerifyRequest* type in aseXML schema

ase:VerifyRequestData is based on the *ase:NMITransactionBase* type. It implements the *ase:ElectricityMeterVerifyRequestData* type (xsi:type = '*ase:ElectricityMeterVerifyRequestData*') construct in the following format:

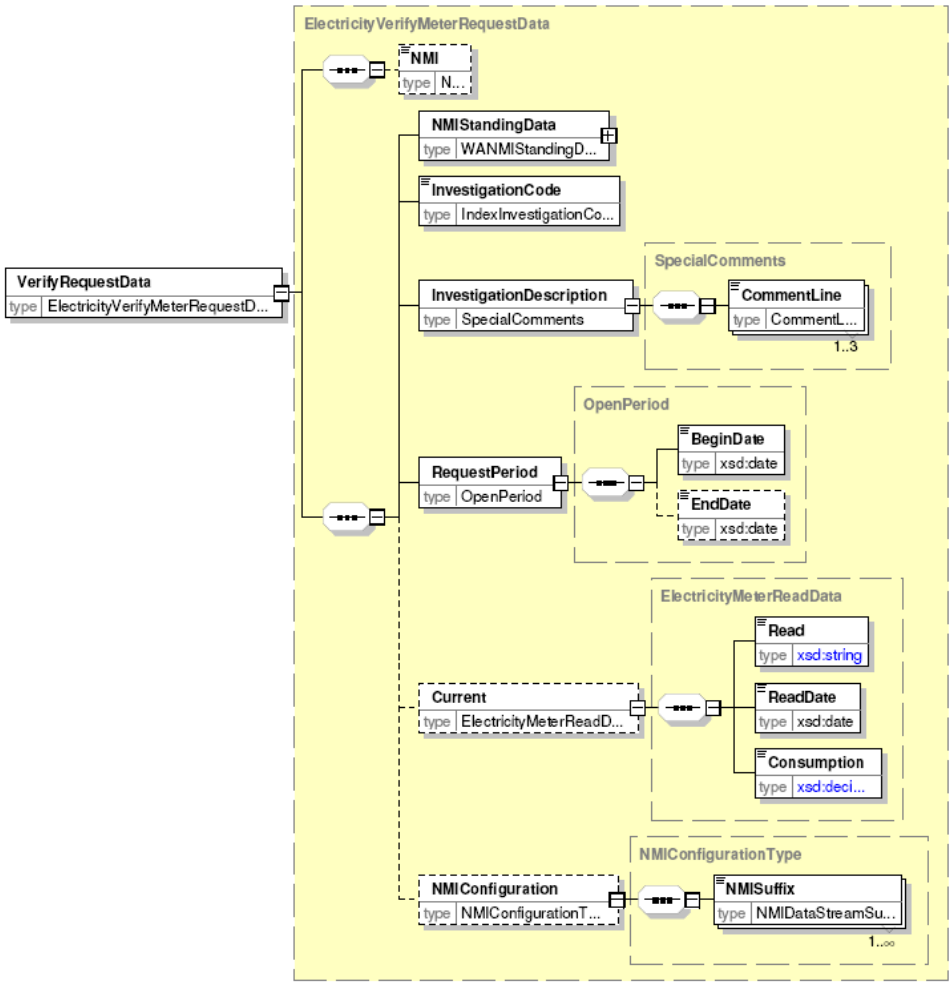

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Figure 4-14 *ase:ElectricityVerifyMeterRequestData* type

ase:NMIStandingData element implements the *ase:WANMIStandingData* to provide:

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- *MeterSerial* as *(ase:NMIStandingData/MeterRegister/WAMeter/SerialNumber),*
- *NMISuffix* as *(ase:NMIStandingData/MeterRegister/WAMeter/RegisterConfiguration/Register/Suffix)* and

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- *RegisterID* as *(ase:NMIStandingData/MeterRegister/WAMeter/RegisterConfiguration/Register/RegisterID).*

XML Sample - Request for verification of Interval data

Scenario:

- InvestigationCode is 'Invalid Standing Data'. A description is also provided in the 'InvestigationDescription' element.
- The request dates (start and end) have been provided.

```
<n:aseXML xmlns:n="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WP-MSG-463-508</MessageID>
        <MessageDate>2008-07-24T15:34:47.971+08:00</MessageDate>
        <TransactionGroup>MTRD</TransactionGroup>
        <Priority>High</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionDate="2008-07-24T15:34:47.971+08:00" transactionID="MSC-MDV1463507">
            <MeterDataVerifyRequest version="r9">
                <VerifyRequestData  xsi:type="n:ElectricityVerifyMeterRequestData" version="r17">
                    <NMIStandingData version="r17">
                        <NMI checksum="2">8001006279</NMI>
                        <RoleAssignments>
                            <RoleAssignment>
                                <Party>WPRTL</Party>
                                <Role>FRMP</Role>
                            </RoleAssignment>
                        </RoleAssignments>
                        <MeterRegister>
                            <WAMeter>
                                <SerialNumber>0211000506</SerialNumber>
                            </WAMeter>
                        </MeterRegister>
                    </NMIStandingData>
                    <InvestigationCode>Invalid Standing Data</InvestigationCode>
                    <InvestigationDescription>
                        <CommentLine>NMIConfiguration in the MDFF file is incorrect. B2 suffix
missing</CommentLine>
                    </InvestigationDescription>
                    <RequestPeriod>
                        <BeginDate>2008-06-18</BeginDate>
                        <EndDate>2008-07-17</EndDate>
                    </RequestPeriod>
                    <NMIConfiguration>
                        <NMISuffix>E1</NMISuffix>
                        <NMISuffix>B1</NMISuffix>
                    </NMIConfiguration>
                </VerifyRequestData>
            </MeterDataVerifyRequest>
        </Transaction>
    </Transactions>
</n:aseXML>
```

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XML Sample - Request for verification of Consumption data

Scenario:

The 'Current' values have been populated – as the *ase:InvestigationCode* of 'Verify High Reading' requires populating the Current values. As per the requirements, the *@ase:transactionID* is populated with *RequestID*.

```
<n:aseXML xmlns:n="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WP-MSG-469-764</MessageID>
        <MessageDate>2008-07-25T14:46:44.259+08:00</MessageDate>
        <TransactionGroup>MTRD</TransactionGroup>
        <Priority>High</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionDate="2008-07-25T14:46:44.259+08:00" transactionID="MSC-MDV1469763">
            <MeterDataVerifyRequest version="r9">
                <VerifyRequestData xsi:type="n:ElectricityVerifyMeterRequestData" version="r17">
                    <NMIStandingData version="r17">
                        <NMI checksum="8">8001521665</NMI>
                        <RoleAssignments>
                            <RoleAssignment>
                                <Party>WPRTL</Party>
                                <Role>FRMP</Role>
                            </RoleAssignment>
                        </RoleAssignments>
                        <MeterRegister>
                            <WAMeter>
                                <SerialNumber>0101008904</SerialNumber>
                                <RegisterConfiguration>
                                    <Register>
                                        <RegisterID>007</RegisterID>
                                        <Suffix>11</Suffix>
                                    </Register>
                                </RegisterConfiguration>
                            </WAMeter>
                        </MeterRegister>
                    </NMIStandingData>
                    <InvestigationCode>Verify High Reading</InvestigationCode>
                    <InvestigationDescription>
                        <CommentLine>Reading too high.</CommentLine>
                    </InvestigationDescription>
                    <RequestPeriod>
                        <BeginDate>2008-05-15</BeginDate>
                        <EndDate>2008-07-15</EndDate>
                    </RequestPeriod>
                    <Current>
                        <Read>0012456.123</Read>
                        <ReadDate>2005-07-15</ReadDate>
                        <Consumption>124.634</Consumption>
                    </Current>
                </VerifyRequestData>
            </MeterDataVerifyRequest>
        </Transaction>
    </Transactions>
</n:aseXML>
```

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4.2. Service Orders

4.2.1. Overview

The Service Order process enables Retailers to request defined services from Service Providers and to receive confirmation on whether the work has been undertaken (or attempted).

The process is implemented using three different aseXML transactions. The following table shows the Service Orders' group of Business Documents and corresponding aseXML transactions.

Business Document	Transaction Group	aseXML Transaction	Description
ServiceOrder Request	SORD	ase:Service Order Request	Request for a service to be performed by the Service Provider. There are nine different categories of Service Order: New Connection, Re-energisation, De-energisation, Special Read, Additions and Alterations, Meter Reconfiguration, Meter Investigation, Supply Abolishment, Miscellaneous.
ServiceOrder Response	SORD	ase:Service Order Response	Details of the result of the Service Order Request.
ServiceOrder Appointment Notification	SORD	ase:Service Order Response	Advises the details of when a New Connection ServiceOrderRequest will be performed. The transaction is used only in SA and ACT.

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Table 4-16: List of Service Order Transactions

4.2.2. Service Order Process

The following activity diagram (Figure 4-15 Service Order Activity Diagram) outlines the Service Order business process flow in terms of the exchange of transactions. This diagram assumes that the ase:ServiceOrderRequest is accepted and not cancelled at any time while being processed."

The Service Order transactions are exchanged between Retailers and Service Providers. A Service Provider can be a DNSP, MPB or MDP. In WA, these three roles are all undertaken by the Network Operator. Ref: [3] 1.9.2.a. However, the following limitations effectively mean that the Service Provider will always be a DNSP.

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- If a DNSP is the Responsible Participant (RP) for the NMI, then the Retailer must send any ase:ServiceOrderRequest to the DNSP. If the DNSP is not the RP for the NMI, then the Retailer must send any ase:ServiceOrderRequest to the appropriate Participant responsible for the required service. Ref: [3] 2.2.1.d.

The Service Order Procedure applies to Service Orders for all NMIs located in a Participating Jurisdiction excluding those with a Metering Installation Type 1 to 4 where the work requested is a contestable service. Ref [3] 2.1.1.

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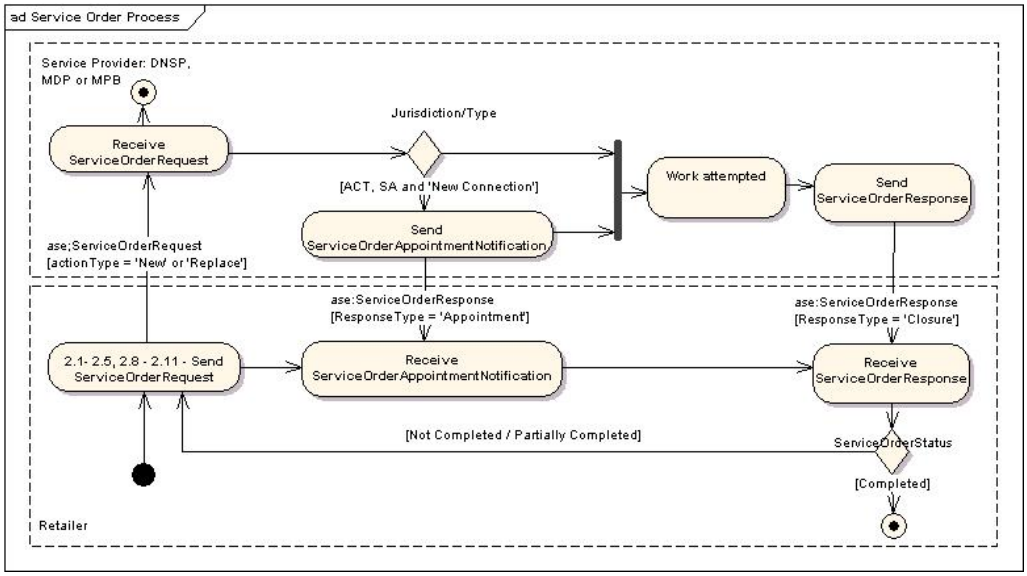

Figure 4-15 Service Order Activity Diagram[6]

The service order can be initiated as the result of a customer request or directly at the Retailer's own request (Ref: [3] 2.2.1.a). The service order is initiated by the ase:ServiceOrderRequest transaction, *ase:@actionType* = 'New' or *ase:@actionType* = "Replace".

The submitted service order can be cancelled under certain conditions (Ref: [3] 2.9 and the 4.2.3.1). The Service Provider will not accept an updated service order. If changes are required, the original service order has to be cancelled and a new service order generated. The cancellation of the service order is performed by the ase:ServiceOrderRequest transaction with *ase:@actionType* = 'Cancel'. By agreement with the Service Provider, a service order can be updated by phone or e-mail. Ref: [3] 2.11.

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[6] Diagram not amended as discussed at Build Pack workshop 30-31 March as proposed approach was problematic. Issue requires further consideration.

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The processing of the received service order depends on the service order type and the market (jurisdiction) in which the service is to be performed. Some Service Order Types are not used in specific jurisdictions. See table below for details.

Service Order Type	ACT	NSW	QLD	SA	VIC	TAS	WA
Allocate NMI	Yes	Yes	No	No	No	No	No
New Connection	Yes	No	No	Yes	Yes	No	Yes
Re-energisation	Yes	Yes	No	Yes	Yes	No	Yes
De-energisation	Yes	Yes	No	Yes	Yes	No	Yes
Special Read	Yes	Yes	No	Yes	Yes	No	Yes
Adds and Alts	Yes	No	No	Yes	Yes	No	Yes
Meter Reconfiguration	Yes	Yes	No	Yes	Yes	No	Yes
Meter Investigation	Yes	Yes	No	Yes	Yes	No	Yes
Supply Abolishment	Yes	Yes	No	Yes	Yes	No	
Miscellaneous	Yes	Yes	No	Yes	Yes	No	

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Table 4-17: Jurisdictional Applicability of Service Order Types

The dependency of the service order type and the market is demonstrated in the diagram Figure 4-15 Service Order Activity Diagram and in [3] 2.1.1 and 2.2.b.

In SA and ACT the service order type 'New Connection' requires an appointment notification to be sent from the Service Provider to the Retailer. The appointment notification is sent using an ase:ServiceOrderResponse transaction with *ase:ResponseType* = 'Appointment'.

The sending of ase:ServiceOrderRequests is also affected by the Retailer's Role with respect to the Site. The table below provides the details. Ref [3] 2.2.1.b & .c.

Service Order Type	Service Order SubType	Previous FRMPs	Current FRMP	Prospective FRMPs
Allocate NMI	Any value	No	Yes	Yes
New Connection	Any value	No	Yes	Yes
Re-energisation	Any value	No	Yes	Yes
De-energisation	Any value	No	Yes	No
Special Read	"Check Read"	No	Yes	No

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Service Order Type	Service Order SubType	Previous FRMPs	Current FRMP	Prospective FRMPs
	Not "Final Read"	No	Yes	Yes
Additions & Alterations	Any value	No	Yes	Yes
Meter Reconfiguration	Any value	No	Yes	Yes
Meter Investigation	Any value	Yes	Yes	No
Supply Abolishment	Any value	No	Yes	No
Miscellaneous	Any value	No	Yes	No

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Table 4-18: Role of Retailer able to send each Service Order Type

When activities requested by the Service Order are completed to the level that Service Provider could complete them, the Service Provider responds to the Retailer. The service order response is performed by the ase:ServiceOrderResponse transaction with *ase:ResponseType* = 'Closure'.

Depending on the level of service order completion, the *ase:ServiceOrderStatus* could have values of: 'Completed'. 'Partially Completed' or 'Not Completed' (Ref: [3] 2.6.5). The reason for partially completing or not completing the service order have to be provided in the Response (Ref: [3] 2.6.4). If the service order is only partially completed or is not completed at all, the Retailer may generate a new service order to complete the work required.

All service order types, with the exception of Allocate NMI and Miscellaneous (Ref: [3] 2.2.1.k), require a meter reading. The meter reading is supplied to the Retailer from the Service Provider using the ase:MeterDataNotification transaction.

Figure 4-16 Service Order Sequence Diagram outlines the Service Order process in terms of the sequence of events.

The service order process is grouped into the following sub-processes:

- Service Order Request
- Service Order Response
- Service Order Appointment Notification

The following sections describe in detail the aseXML implementation of these business sub-processes.

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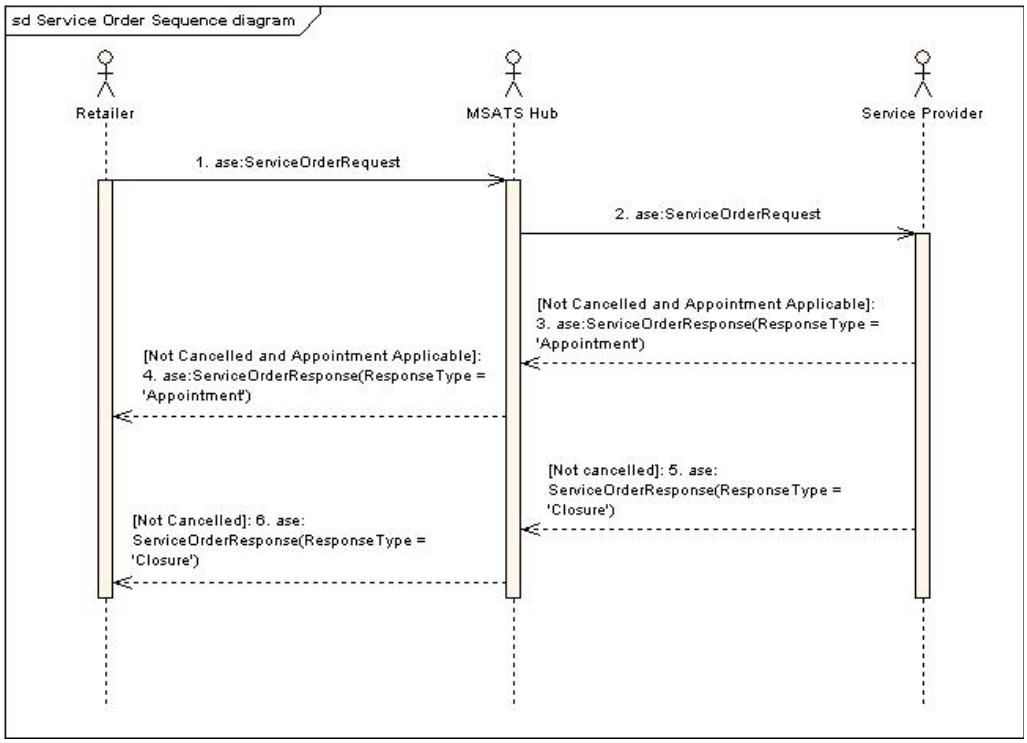

Figure 4-16 Service Order Sequence Diagram

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:ServiceOrderRequest	Retailer	WA B2B Gateway	SO 2.1 to 2.6.3, 2.8 to 2.11.
2	ase:ServiceOrderRequest	WA B2B Gateway	Service Provider	
3	If appointment applicable; ase:ServiceOrderResponse (*ase:ResponseType* = 'Appointment')	Service Provider	WA B2B Gateway	SO 2.2.1, 2.6.4, 2.6.5, 2.7
4.	If appointment applicable; ase:ServiceOrderResponse (*ase:ResponseType* = 'Appointment')	WA B2B Gateway	Retailer	
5.	ase:ServiceOrderResponse (*ase:ResponseType* = 'Closure')	Service Provider	WA B2B Gateway	SO 2.2.1, 2.6.4, 2.6.5, 2.7

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
6.	ase:ServiceOrderResponse (*ase:ResponseType* = 'Closure')	WA B2B Gateway	Retailer	

Table 4-19: Service Order Sequence

4.2.2.1. Timing Requirements

The generic timing requirements, various timing points and their definitions for the Service Order process are detailed in Ref: [3], 3.

The Service Provider must use the *ase:ServiceOrderType*, *ase:ScheduledDate*, *ase:Preferred/Date* and the *ase:Preferred/Time* fields to apply the business rules associated with the Notice Period to schedule and allocate resources to perform the requested work. Ref: [3] 2.9.a and 3.3.2.a.

The minimum amount of notice required by Service Providers for each type of Service Order Request is summarised in Ref: [3] 3.3.2.

The time the Service Provider has to complete the work requested is summarised in Ref: [3] 3.3.5.

The required timeframes for completion of the requested work:

- Apply to NMIs located in urban/metropolitan areas; alternative requirements may exist for rural and/or remote Customers, and / or
- Do not apply to NMIs with a NMI Classification code in MSATS of "Large".
  Ref: [3] 3.3.5.b.

The timing requirement for the provision of an ase:ServiceOrderResponse as a Service Order Response is detailed in Ref: [3] 3.3.6.

The timing requirement for the provision of an ase:ServiceOrderResponse when used as an Appointment Notification is detailed in Ref [3] 3.4.

4.2.3. Service Order Request

The Retailer may request a Service Provider to perform a defined service for a NMI.

A Retailer will issue an ase:ServiceOrderRequest to a Service Provider either in response to a customer request or, for example, in the case of a De-energisation for non-payment, directly at the Retailer's own request.

Process Sequence

A Retailer issues an ase:ServiceOrderRequest to a Service Provider to perform the specified work at a NMI.

The Service Provider advises the Retailer if they accept or reject the Request.

If they accept the Request, the Service Provider attempts to perform the requested work.

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:ServiceOrderRequest	Retailer	WA B2B Gateway	SO 2.1 to 2.6.3, 2.8 to 2.11.
2	ase:ServiceOrderRequest	WA B2B Gateway	Service Provider	

Table 4-20: Service Order Sequence

The acceptance or rejection of the ase:ServiceOrderRequest transaction is provided in the *ase:TransactionAcknowledgement*. The Service Provider must indicate the reason for rejecting a request by the use of an appropriate *ase:Code*.

The Service Provider may reject the ase:ServiceOrderRequest for a range of reasons. Refer Appendixes C and D for details of the relevant *EventCodes* and their usage.

4.2.3.1. Appointments

Appointments for service orders are only supported where relevant parties have a specific bilateral agreement. The customer preferred date and time should be provided in the ase:ServiceOrderRequest to support any bilateral agreements and confirmed appointments (agreed between Retailer and Service Provider) must also include an appointment reference.

4.2.3.2. Service Order Replacement

Where the Service Provider has inappropriately rejected the ase:ServiceOrderRequest, the Retailer must raise a new ase:ServiceOrderRequest if it still requires the work to be done.

Where the Retailer wants to issue a replacement ase:ServiceOrderRequest, the Retailer must:

1. Agree with the Service Provider that the Retailer may issue a replacement ase:ServiceOrderRequest with an *ase:@actionType* of “Replace”;
2. Use an *ase:@actionType* of “Replace”;
3. Use a new *ase:ServiceOrderNumber* value;

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4. Include the *ase:ServiceOrderNumber* value of the rejected Request in the *ase:SpecialInstructions* field.

The Service Provider must use reasonable endeavours to meet the original Timing Requirement for the completion of requested work that was inappropriately rejected.

Upon receiving an ase:ServiceOrderRequest with an *ase:@actionType* of 'Replace', if no agreement was reached between the originating Participant and the recipient Participant, then the 'Replace' ase:ServiceOrderRequest will be rejected.

4.2.3.3. Service Order Cancellation

The cancellation of the service order is a special case of the ase:ServiceOrderRequest transaction. The service order cancellation activity diagram is shown in Figure 4-17 Service Order Cancellation Activity Diagram

A "Cancel" ase:ServiceOrderRequest only contains the following data elements: *ase:@actionType*, *ase:ServiceOrderNumber,* and *ase:NMI or ase:AustralianAddress*, with an Optional *ase:CommentLine*.

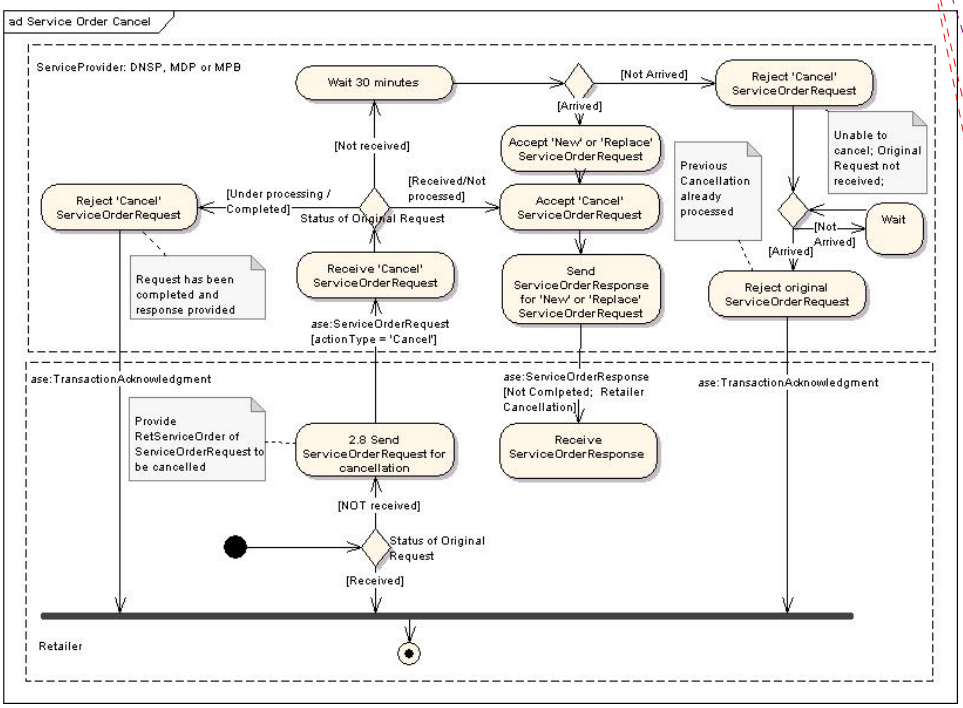

Figure 4-17 Service Order Cancellation Activity Diagram (Ref: [3] 2.10)[7]

[7] This diagram assumes the "New" or "Replace" ase:ServiceOrderRequest is not rejected.

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The Service Order cancellation process is described below. This description covers the main process permutations only. Businesses should be aware that other process paths are possible. Ref: [3] 2.10.

a. A Retailer may attempt to cancel the work associated with an ase:ServiceOrderRequest up to the point at which an ase:ServiceOrderResponse has been received. To do so, the Retailer must send a service order cancellation to the relevant Service Provider using an ase:ServiceOrderRequest. The ase:ServiceOrderRequest must have the *ase:@actionType* set to "Cancel" and must use the *ase:ServiceOrderNumber* of the Request being cancelled.

b. If the Retailer needs to cancel a service order urgently, this must be communicated to the Service Provider by phone. The Retailer must also send a "Cancel" ase:ServiceOrderRequest, unless otherwise agreed with the Service Provider.

c. On receipt of an ase:ServiceOrderRequest cancellation:

    a. If the original Request has been received by the Service Provider and an *ase:TransactionAcknowledgement* has not been sent:

        i. Accept both Requests, and

        ii. Send an ase:ServiceOrderResponse to the original ase:ServiceOrderRequest with a *ase:ServiceOrderStatus* of "Not Completed" and an *ase:ResponseCode* of "Retailer Cancellation.

    b. If the original Request has been received and accepted by the Service Provider:

        i. If the ase:ServiceOrderRequest has been completed or the Service Provider is unable to cancel the field work, the Service Provider will reject the "Cancel" ase:ServiceOrderRequest with an *ase:Code* indicating "Unable to cancel ServiceOrderRequest. Requested work has commenced or is completed."

        ii. If the ase:ServiceOrderRequest has already been cancelled in the Service Provider system (e.g. triggered by a phone call from the Retailer for a same day cancellation) or the Service Provider is able to cancel the field work, the Service Provider will accept the "Cancel" ase:ServiceOrderRequest. The Service Provider will send an ase:ServiceOrderResponse with a *ase:ServiceOrderStatus* of "Not Completed" and an *ase:ResponseCode* of "Retailer Cancellation".

        iii. If the ase:ServiceOrderRequest has been rejected by the Service Provider, the Service Provider will reject the "Cancel" ase:ServiceOrderRequest with an *ase:Code* indicating "Unable to Cancel, Original Request Rejected".

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c. If the original ase:ServiceOrderRequest has not been received by the Service Provider, the Service Provider will:

i. Wait for 30 minutes (to allow time for the associated "New" (or "Replace") ase:ServiceOrderRequest to arrive).

ii. If the "New" (or "Replace") ase:ServiceOrderRequest arrives:

a. Accept the "New" (or "Replace") ase:ServiceOrderRequest.

b. Accept the "Cancel" ase:ServiceOrderRequest.

c. Provide an ase:ServiceOrderResponse to the Service Order. The Service Provider will send an ase:ServiceOrderResponse with a *ase:ServiceOrderStatus* of "Not Completed" and an *ase:ResponseCode* of "Retailer Cancellation".

iii. If the "New" (or "Replace") ase:ServiceOrderRequest has not arrived:

a. Reject the "Cancel" Service Order Request with an *ase:Code* indicating "Unable To Cancel, Original Request Not Received".

iv. If the "New" (or "Replace") ase:ServiceOrderRequest subsequently arrives, the Service Provider will reject the Request using an *ase:Code* indicating "Previous Cancellation Already Processed".

The following (Figure 4-18) sequence diagram outlines the service order cancellation steps.

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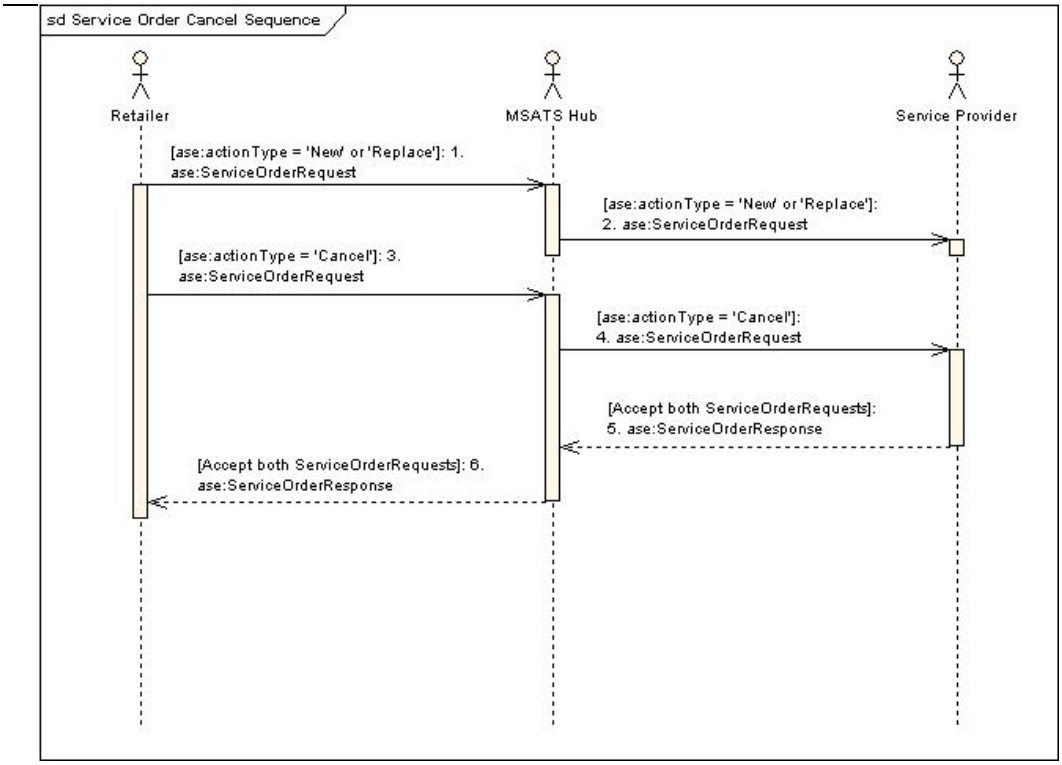

Figure 4-18 Service Order Cancellation Sequence Diagram

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:ServiceOrderRequest *(ase:@actionType* = 'New' or 'Replace', *ase:ServiceOrderNumber, ase:Transaction@transactionID)*	Retailer	WA B2B Gateway	SO 2.1 to 2.6.3, 2.8 to 2.11.
2	ase:ServiceOrderRequest *(ase:@actionType* = 'New' or 'Replace', *ase:ServiceOrderNumber, ase:Transaction@transactionID)*	WA B2B Gateway	Service Provider	
3	ase:ServiceOrderRequest *(ase:@actionType* = 'Cancel, quote *ase:ServiceOrderNumber* of original request (1), *ase:Transaction@transactionID, ase:Transaction@initiatingTransactionID* must not be used*)*	Retailer	WA B2B Gateway	SO 2.1 to 2.6.3, 2.8 to 2.11.
4	ase:ServiceOrderRequest *(ase:@actionType* = 'Cancel, quote *ase:ServiceOrderNumber* of original request (1), *ase:Transaction@transactionID, ase:Transaction@initiatingTransactionID* must not be used*)*	WA B2B Gateway	Service Provider	
5	If 'New', 'Replace' ase:ServiceOrderRequest and 'Cancel' ase:ServiceOrderRequest accepted: ase:ServiceOrderResponse (*ase:ServiceOrderStatus* = 'Not Completed' and *ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the 'New', 'Replace' ase:ServiceOrderRequest)	Service Provider	WA B2B Gateway	SO 2.2.1, 2.6.4, 2.6.5, 2.7
6	If 'New', 'Replace' ase:ServiceOrderRequest and 'Cancel' ase:ServiceOrderRequest accepted: ase:ServiceOrderResponse (*ase:ServiceOrderStatus* = 'Not Completed' and *ase:Transaction@initiatingTransactionID* = *ase:Transaction@transactionID* of the 'New', 'Replace' ase:ServiceOrderRequest)	WA B2B Gateway	Retailer	

Table 4-21: Service Order Cancellation Steps

Note: For every accepted "New" or "Replace" ase:ServiceOrderRequest the Service Provider will send an ase:ServiceOrderResponse with an *ase:@responseType* of "Closure". There is no ase:ServiceOrderResponse for a "Cancel" ase:ServiceOrderRequest.

4.2.3.4. ase:WorkSubTypes

The ase:ServiceOrderRequest uses *ase:WorkType* and *ase:WorkSubType* to provide the primary information regarding the type of work being requested. The *ase:WorkSubType* must be used where the type of work required is known **and** covered by the available codes. If no *ase:WorkSubType* is provided in a ServiceOrderRequest, the Service Provider's normal practice will apply. Ref: [3] 2.12.2.a.

The table below details the use of each *ase:WorkSubType* for each *ase:WorkType*.

ase:WorkType	*ase:ServiceOrder SubType* value (if applicable)	Explanation of use
Adds & Alts	[No Subtype provided]	Used to request a change to the metering associated with a Connection Point. This applies to all physical changes to a Connection Point during its life cycle. It excludes New Connection and Supply Abolishment. *SpecialInstructions* must be used to provide details of what action is required.
Adds & Alts	Exchange Meter	Used for the exchange of one meter for another.
Adds & Alts	Install Meter	Used for the installation of a new meter(s) (except for a hot water meter).
Adds & Alts	Remove Meter	Used when removal of a single redundant meter is required.
De-energisation	[No Subtype provided]	Used to arrange for a Connection Point to be de-energised.
De-energisation	Remove Fuse	Used for a De-energisation at the fuse or meter.
De-energisation	Remove Fuse (Non-Payment)	Used for a De-energisation at the fuse or meter. Must only be used for De-energisations for non-payment.
De-energisation	Warning	Used for a De-energisation without physical de-energisation. A Warning card is left at the premise and a reading is taken.

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Deleted: Adds & Alts

Deleted: Install Controlled Load

Deleted: Used for the installation of standard controlled load equipment.

Deleted: Adds & Alts

Deleted: Install Hot Water

Deleted: Used for the new installation of a standard hot water meter and associated control equipment.

Deleted: Adds & Alts

Deleted: Move Meter

Deleted: Used when a meter requires relocation.

Deleted: Allocate NMI

Deleted: [No Subtype available]

Deleted: Used to request a NMI for a Site prior to its connection to the network.

Deleted: De-energisation

Deleted: Pillar box, Pit or Pole Top

Deleted: Used for a De-energisation by a physical disconnection of the service mains at the connection to the network.

Deleted: De-energisation

Deleted: Pillar-Box Pit Or Pole-Top (Non-Payment)

Deleted: Used for a De-energisation by a physical disconnection of the service mains at the connection to the network. ¶
Must only be used for De-energisations for non-payment.

Deleted: De-energisation

Deleted: Sticker

Deleted: Used for a De-energisation using a sticker without physical de-energisation and a final read is required.

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ase:WorkType	*ase:ServiceOrder SubType* value (if applicable)	Explanation of use
Meter Investigation	[No Subtype provided]	Used to request an investigation of the metering at a Connection Point. *SpecialInstructions* must be used to provide details of what action is required.
Meter Investigation	Inspect	Used when a general metering inspection is required to check a reported or suspected fault.
Meter Investigation	Meter Test	Used to check that the metering installation is accurately measuring the energy consumed.
Meter Investigation	Tamper	Used when an inspection is required where supply or equipment tampering is suspected.
Meter Reconfiguration	[No Subtype provided]	Used to request the reconfiguration or reprogramming of the metering at a Connection Point. *SpecialInstructions* must be used to provide details of what action is required
Meter Reconfiguration	Change Tariff	Used for changes to tariff that require meter reprogramming (except for controlled load timing changes).
Miscellaneous	[No Subtype available]	Used to request a service not covered by one of the above Service Order types. *SpecialInstructions* must be used to provide details of what action is required.
New Connection	[No Subtype provided]	Used to arrange a new supply connection to a specified address. *SpecialInstructions* must be used to provide details of what action is required.
New Connection	Permanent	Used when the supply location is expected to be the final location.
New Connection	Temporary	Used when the supply location is expected to be removed later.
New Connection	Temporary In Permanent	Used for temporary connections at the permanent supply location.

Deleted: Meter Reconfiguration

Deleted: Change Controlled Load

Deleted: Used for changing from one controlled load tariff to another.

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Deleted: Change Timeswitch

Deleted: Used for changing timeswitch settings.

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ase:WorkType	*ase:ServiceOrder SubType* value (if applicable)	Explanation of use
Re-energisation	[No Subtype provided]	Used to arrange for a Connection Point to be re-energised.
Re-energisation	After Disconnection For Non-Payment	Used for a Re-energisation after disconnection as part of a non-payment process.
Special Read	[No Subtype provided]	Used to request an out-of-cycle meter reading.
Special Read	Check Read	Used to check the accuracy of the meter reading only.
Special Read	Final Read	Used to request a reading in order to prepare a final bill for the Customer.
Supply Abolishment	[No Subtype available]	Used to request the abolition of supply at a given Connection Point. This involves decommissioning of a NMI and all associated metering (e.g. Associated with the demolition of Customer's Site). *SpecialInstructions* must be used to provide details of what action is required.

Deleted: Re-energisation

Deleted: New Reading Required

Deleted: Used when the Retailer wants a reading taken, rather than a deemed (old) meter reading to be used

Deleted: Re-energisation

Deleted: Retrospective Move-in

Deleted: Used when the Retailer requires a move-in reading for a prior date where the site was not physically de-energised. (Ref. [3] 2.6.2.c.3)

Deleted: Re-energisation

Deleted: Sticker Removal

Deleted: Used to re-energise a Site that has been de-energised using a sticker (In SA only)

Table 4-22: Service Order WorkType to SubType relationship

4.2.3.5. Multiple Service Order from Different Retailers

Section 2.12.14 of the Service Orders B2B Procedure details business rules for the management of situations where multiple ServiceOrderRequests apply to a Site at, or close to, a point in time. The multiple Service Order rules apply to any incomplete* ServiceOrderRequests with *ScheduledDates* within a 5 business day period.
(* 'Incomplete' means a ServiceOrderResponse has not been sent or the Service Provider is unaware of the status of work that is currently in progress.)

The following table summarises the scenarios that apply to specific combinations of ServiceOrderRequests raised by current and prospective Retailers.

- The numbers in the table refer to specific scenarios, which have their own business rules for managing the ServiceOrderRequests. Ref: [3] 2.12.14.1.c to 2.12.14.5 for these details.

- An “x” means the Service Provider will reject the ServiceOrderRequest from the prospective Retailer, irrespective of whether it is received first or second.

The shading in the De-energisation, Meter Investigation, Supply Abolishment and Miscellaneous columns indicate that Prospective Retailers are not allowed to raise these types of ServiceOrderRequests.

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Summary of the Management of Multiple Service Order and Multiple Retailer Situations

		Prospective Retailer									
		Allocate NMI	**New Connection**	**Re-energisation**	**De-energisation**	**Special Read**	**Adds & Alts**	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**
Current Retailer	Allocate NMI	8	x	x	N/A	x	x	X	N/A	N/A	N/A
	New Connection	x	8	x	N/A	x	7	7	N/A	N/A	N/A
	Re-energisation	x	x	8	N/A	9	7	7	N/A	N/A	N/A
	De-energisation	x	x	1-6	N/A	1-6	7	7	N/A	N/A	N/A
	Special Read	x	x	9	N/A	9	7	7	N/A	N/A	N/A
	Adds/Alts	x	x	9	N/A	9	7	7	N/A	N/A	N/A
	Meter Reconfiguration	x	x	9	N/A	9	7	7	N/A	N/A	N/A
	Meter Investigation	x	x	9	N/A	9	7	7	N/A	N/A	N/A
	Supply Abolishment	x	x	7	N/A	9	7	7	N/A	N/A	N/A
	Miscellaneous	x	x	9	N/A	9	7	7	N/A	N/A	N/A

Table 4-23: Summary of the Management of Multiple Service Order and Multiple Retailer Situations

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4.2.3.6. Multiple Service Orders from Same Retailer

The following table summarises the specific combinations of ServiceOrderRequests that could potentially be raised by the same Retailer.

Upon receipt of a combination of multiple ServiceOrderRequests that are deemed valid per the table (shown by an "✔" in the relevant cell), the Service Provider will:

- Process both ServiceOrderRequests.

Upon receipt of a combination of multiple ServiceOrderRequests that are deemed invalid per the table (shown by an "**x**" in the relevant cell), the Service Provider will:

- Reject the new ServiceOrderRequest with an Event indicating "Invalid Multiple Service Order Combination".

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		New Service Order									
		Allocate NMI	New Connection	Re-energisation	De-energisation	Special Read	Adds & Alts	Meter Reconfiguration	Meter Investigation	Supply Abolishment	Miscellaneous
Existing Service Order	Allocate NMI	x	x	x	x	x	x	x	x	x	x
	New Connection	x	x	x	x	x	x	x	x	x	✓
	Re-energisation	x	x	x	✓	✓	✓	✓	✓	x	✓
	De-energisation	x	x	✓	x	✓	✓	✓	✓	✓	✓
	Special Read	x	x	✓	✓	✓	✓	✓	✓	✓	✓
	Adds/Alts	x	x	✓	✓	✓	✓	✓	x	x	✓
	Meter Reconfiguration	x	x	✓	✓	✓	✓	X	x	x	✓
	Meter Investigation	x	x	✓	✓	✓	x	✓	x	x	✓
	Supply Abolishment	x	x	x	x	x	x	x	x	x	✓
	Miscellaneous	x	x	✓	✓	✓	✓	✓	✓	✓	✓

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Table 4-24: Summary of Multiple Service Orders from Same Retailer

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4.2.3.7. ase:ServiceOrderRequest transaction

Transaction Definition Table cross-reference	This interface realises the ServiceOrderRequest transaction from the Service Order B2B Procedure. Ref: [3].
Trigger	Retailers may send the Request whenever they require specific work performed at a NMI by the relevant Service Provider. An ase:ServiceOrderRequest (Ref: [3] 2.1 to 2.6, 2.8 to 2.11) is either raised by a Retailer in response to a customer request or, for example, in the case of a de-energisation for non-payment, directly at the Retailer's own request.
Pre-conditions	Retailer has received a request for work from a customer or the Retailer requires specific work performed at a NMI.
Post-conditions	The Service Provider has either rejected the Request (with an *ase:TransactionAcknowledgement*), or accepted the Request as they consider they will be able to complete the work.
Transaction acknowledgment specific event codes	Refer to Appendix C.

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Table 4-25: ase:ServiceOrderRequest Summary[8]

The ase:ServiceOrderRequest transaction seeks performance of the specified work at a NMI.

4.2.3.8. aseXML Transaction Implementation and Data Elements

Due to the complexity of the Service Order Request transaction, the data elements and the schema structure are defined in separate sections for the following schema components:

- *ase:ServiceOrderRequest*
- *ase:ElectricityServiceOrderType*
- *ase:ServicePoint*
- *ase:CustomerDetail*
- *ase:AppointmentDetail*
- *ase:ElectricityServiceOrderDetails*
- *ase:ElectricityStandingData*

The schema is described by the schema diagram and the definition of the data in the schema.

[8] This table does not include "Replace" or "Cancel" ase:ServiceOrderRequests.

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ase:ServiceOrderRequest

aseXML transaction ase:ServiceOrderRequest is realised using type *ase:ServiceOrderRequest, which* is outlined in the following schema diagram:

Note: The ase:ServiceOrderRequest transaction data tables include multiple rows for some fields. The additional rows provide the specific usage rules for the Optional usage of the field for the specific *ase:WorkTypes* covered by the row. For example *ase:NMI* is shown below as Optional for New Connection ase:ServiceOrderRequests with a specific usage rule of "***Mandatory*** if NMI known to Retailer. If NMI not provided *ase:Address* must to be provided." The other row for *ase:NMI* indicates that it is Not Required for Allocate NMI ase:ServiceOrderRequests and Mandatory for the other 8 Service Order types.

Note: For Miscellaneous ase:ServiceOrderRequests, the Optional fields may be provided if considered necessary by the Retailer.

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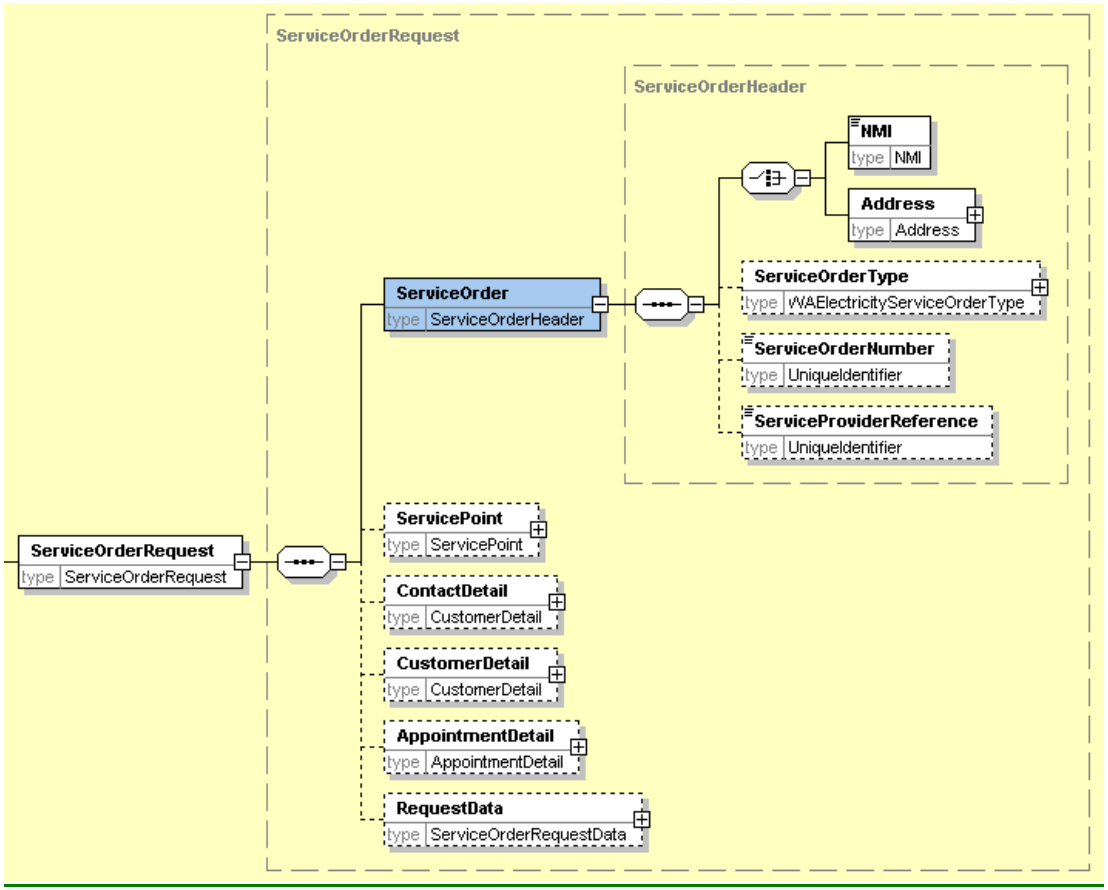

Figure 4-19 *ase:ServiceOrderRequest* type

The base XPath used is *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/*".

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Transaction:	ase:ServiceOrderRequest											
Received From:	Retailer											
Sent To:	Service Provider											
aseXML Schema		**B2B Procedure**										
Data Element Path	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
@actionType	O	M	M	M	M	M	M	M	M	M	M	A code used to indicate: New = new ServiceOrderRequest Cancel = cancel a previously raised ServiceOrderRequest Replace = replace a previously raised ServiceOrderRequest that was incorrectly "Rejected". Default is 'New'
ServiceOrder/ NMI	M[9]	N		M	M	M	M	M	M	M	M	NMI (as used by MSATS).
			O									***Mandatory*** if NMI known to the Retailer. If NMI not provided *ase:Address* must to be provided.
ServiceOrder /NMI/@check sum	O	N										NMI Checksum (as used by MSATS).

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[9] This element is mandatory if *ase:Address* not provided

Transaction:	ase:ServiceOrderRequest											
Received From:	Retailer											
Sent To:	Service Provider											
aseXML Schema		**B2B Procedure**										
Data Element Path	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
			O	O	O	O	O	O	O	O	O	***Mandatory*** if NMI is provided.
ServiceOrder/ Address/	M[10]	M		N	N	N	N	N	N	N	N	
			O									***Mandatory*** if NMI is not provided.
ServiceOrder/ ServiceOrder Type	M	M	M	M	M	M	M	M	M	M	M	Implemented as *ase:WAElectricityServiceOrderType* defined in Figure 4-20 ase:WAElectricityServiceOrderType type *xsi:type="ase:WAElectricityServiceOrderType"* **Not used** for a "Cancel" ase:ServiceOrderRequest.

[10] This element is mandatory if *ase:NMI* not provided

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Transaction:	ase:ServiceOrderRequest
Received From:	Retailer
Sent To:	Service Provider

aseXML Schema		B2B Procedure										
Data Element Path	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
ServiceOrder/ ServiceOrder Number	O	M	M	M	M	M	M	M	M	M	M	Retailer defined reference, used for reference and tracking. If *ase:@actionType* = "New", must be a new (unused) number, unique for the Retailer/Service Provider combination. If *ase:@actionType* = "Cancel", must be a previously provided value. If *ase:@actionType* = "Replace", must be a new (unused) number, unique for the Retailer/Service Provider combination. The *ase:ServiceOrderNumber* value of the rejected Request must be provided in the *ase:SpecialInstructions* field.
ServicePoint	O											Implemented as *ServicePoint* type defined in Figure 4-21
ContactDetail	O											Contact details of Retailer, to be provided where Service Provider may need to contact the Retailer. Implemented as *ase:CustomerDetail* type defined in Figure 4-22 ase:CustomerDetail type

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Transaction:	ase:ServiceOrderRequest
Received From:	Retailer
Sent To:	Service Provider

aseXML Schema		B2B Procedure										
Data Element Path	Mandatory / Optional	Allocate NMI	New Connection (WA, ACT, Vic & SA only)	Re-energisation	De-energisation	Special Read	Adds and Alts (WA, ACT, Vic & SA only)	Meter Reconfiguration	Meter Investigation	Supply Abolishment	Miscellaneous	Definition & Usage
CustomerDetail	O											Contact details of customer or customer agent, to be provided where Service Provider may need to contact customer/agent. Implemented as *ase:CustomerDetail* type defined in Figure 4-22 ase:CustomerDetail type
AppointmentDetail	O											Appointment details and scheduled date for the work. Implemented as ase:*AppointmentDetail* type defined in Figure 4-23 *ase:AppointmentDetail* type
RequestData	O											Implemented as *ase:WAElectricityServiceOrderDetails* defined in Figure 4-24 *ase:ElectricityServiceOrderDetails* type xsi:type = “ase:WAElectricityServiceOrderDetails

1245 **Table 4-26: *ase:ServiceOrderRequest* Data**

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ase:ElectricityServiceOrderType

ase:ElectricityServiceOrderType is used for an element *ase:WorkType* in the ase:ServiceOrderRequest transaction.

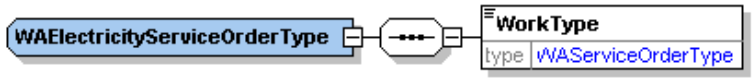

Figure 4-20 *ase:WAElectricityServiceOrderType* type

The base XPath used is *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ServiceOrder/ServiceOrderType".*

Type:	*ase:WAElectricityServiceOrderType*											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory/Optional**	**Allocate NMI**	**New Connection (WA, ACT, Vic & SA only)**	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts (WA, ACT, Vic & SA only)**	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
WorkType	M	M	M	M	M	M	M	M	M	M	M	Code indicating type of ServiceOrderRequest: **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type:	*ase:WAElectricityServiceOrderType*											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory/Optional**	**Allocate NMI**	**New Connection (WA, ACT, Vic & SA only)**	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts (WA, ACT, Vic & SA only)**	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
WorkType/ @workSubType	O		O	O	O	O	O	O	O			Sub category of the *ase:WorkType*. Each *ase:WorkType* may have a set of allowed *ase:@subType* codes. ***Mandatory*** only where the subtype of work required is known and covered by the available codes. ***Not used*** where the subtype of work required is not known or not covered by the available codes. **Not used** for a "Cancel" ase:ServiceOrderRequest.
		N								N	N	

Table 4-27: *ase:WAElectricityServiceOrderType* Data

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ase:ServicePoint type

ase:ServicePoint type is used for *ase:ServicePoint* Element in the ase:ServiceOrderRequest transaction. The type has the following structure

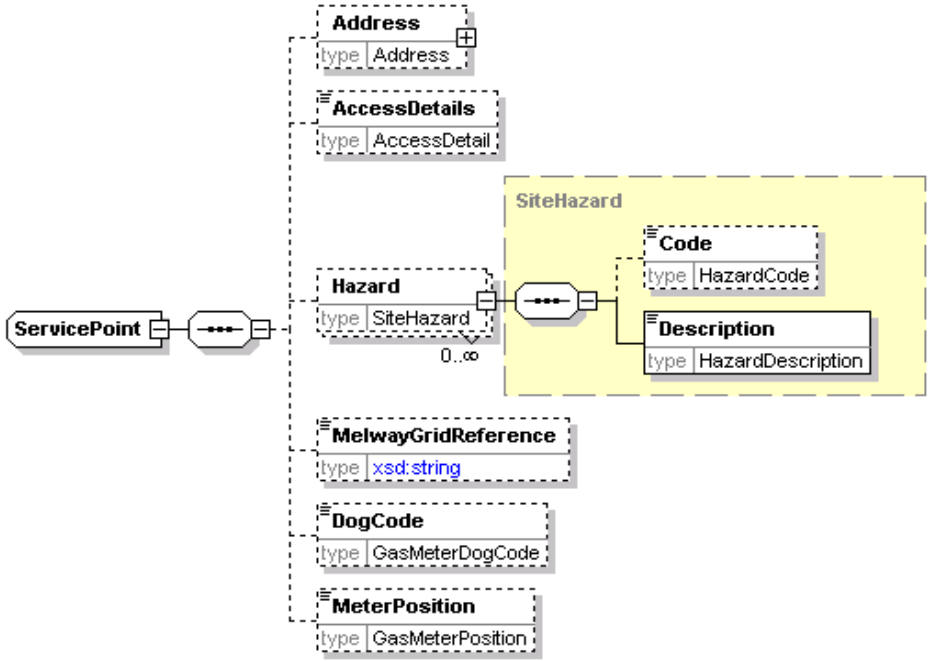

Figure 4-21 *ase:ServicePoint* Type Diagram

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The base XPath used is *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ServicePoint".*

Type: *ase:ServicePoint*

aseXML Schema		B2B Procedure										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
AccessDetails	O	N	M	M	M	M	M	M	M	M		If the customer has supplied any special access details, the Retailer must include these. These details exclude the hazards covered by the *ase:HazardDescription* field. Where the Customer reports no access problems, the Retailer must indicate this by using the value 'Customer Reports No Access Requirements'. Where the Request is not initiated by Customer, the Retailer may use the value "Not Known To Retailer". **Not used** for a "Cancel" ase:ServiceOrderRequest.
											O	***Mandatory*** if the customer has supplied any special access details, the Retailer must include these. **Not used** for a "Cancel" ase:ServiceOrderRequest.
Hazard/Description	C		O	O	O	O	O	O	O	O	O	Description of any hazards associated with the site. This field repeats to allow the reporting of multiple hazards. In WA, list all hazards separated by a comma ***Mandatory*** if the Retailer aware of any hazards associated with the Site. **Not used** for a "Cancel" ase:ServiceOrderRequest.
		N										

Table 4-28: *ase:ServicePoint* Data

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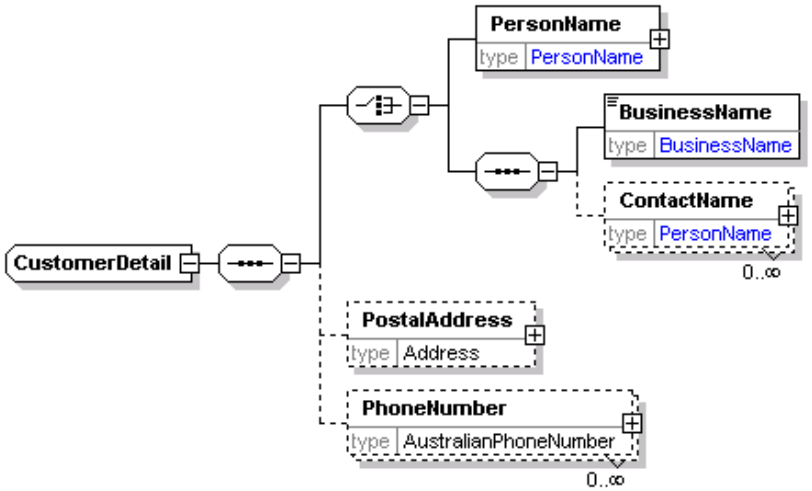
ase:CustomerDetail type

ase:CustomerDetail type is used for two elements in the ase:ServiceOrderRequest transaction: ContactDetail and CustomerDetail.



1265 **Figure 4-22 *ase:CustomerDetail* type**

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The XPaths used are *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ContactDetail*" and *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/CustomerDetail".*

Type:	*ase:CustomerDetail*											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
PersonName	C		O	O	O	O	O	O	O	O O		Contact name of **customer or customer's agent.** ***Mandatory*** where Retailer considers Service Provider needs to contact customer/agent. E.g. where *ase:SpecialInstructions* are 'This is an industrial customer, please contact directly to organize completion of work requested' or 'This is a Life Support customer, please contact directly to organize completion of work requested' (Ref: [3], 2.6.1.b.1&2&3) or a value of "True" is used in *ase:CustomerConsultationRequired.* **Not used** for a "Cancel" ase:ServiceOrderRequest.
		N										
		O	O	O	O	O	O	O	O	O	O	Contact name of **Retailer** ***Mandatory*** where Service Provider may need to contact the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type:	*ase:CustomerDetail*											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
PhoneNumber	O		O	O	O	O	O	O	O	O O		Contact phone number of **customer or customer's agent.** ***Mandatory*** where Retailer considers Service Provider needs to contact customer/agent. E.g. where *ase:SpecialInstructions* are 'This is an industrial customer, please contact directly to organize completion of work requested' or 'This is a Life Support customer, please contact directly to organize completion of work requested' (Ref: [3], 2.6.1.b.1&2&3) or a value of 'Yes' is used in ase:*CustomerConsultationRequired.* **Not used** for a "Cancel" ase:ServiceOrderRequest. A maximum of ONE Telephone number may be provided
		N										
		O	O	O	O	O	O	O	O	O	O	Contact phone number of **Retailer** ***Mandatory*** where Service Provider may need to contact the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Table 4-29: *ase:CustomerDetail* Data

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ase:AppointmentDetail type

ase:AppointmentDetail type is used for the *ase:AppointmentDetail* element in the ase:ServiceOrderRequest transaction and has the following structure:

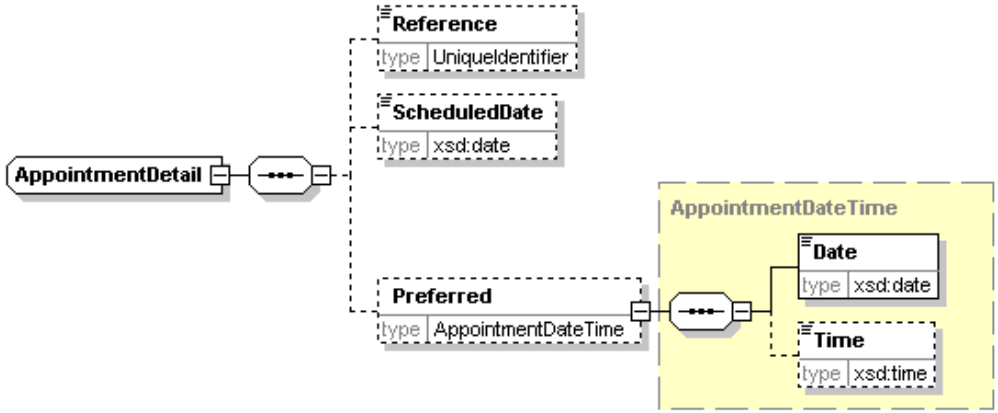

Figure 4-23 *ase:AppointmentDetail* type

The XPath used is *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/AppointmentDetail"*

Type:	*ase:AppointmentDetail*											
aseXML Schema		**B2B Procedure**										
Data Element Path	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
Reference	O			O	O	O	O	O	O	O	O	Appointment reference. ***Mandatory*** if an appointment has been agreed by the Retailer with the Customer and the Service Provider. **Not used** for a "Cancel" ase:ServiceOrderRequest.
		N	N									
ScheduledDate	O	N	M	M	M	M	M	M	M	M	M	The work requested must be performed on or after this date. **Not used** for a "Cancel" ase:ServiceOrderRequest.
			–									
Preferred/Date	C			O	O	O	O	O	O	O	O	Preferred date for the work to be undertaken as discussed between Retailer and the Customer. ***Mandatory*** if an *ase:AppointmentReference* is provided. **Not used** for a "Cancel" ase:ServiceOrderRequest.
		N	N									
Preferred/Time	O	N										Preferred time for the work to be undertaken as discussed between Retailer and the Customer.
			O	O	O	O	O	O	O	O	O	***Mandatory*** if an *ase:AppointmentReference* is provided. **Not used** for a "Cancel" ase:ServiceOrderRequest.

Table 4-30: *ase:AppointmentDetail* Data

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ase:WAElectricityServiceOrderDetails type

ase:WAElectricityServiceOrderDetails type is used for the *ase:RequestData* element in the ase:ServiceOrderRequest transaction.

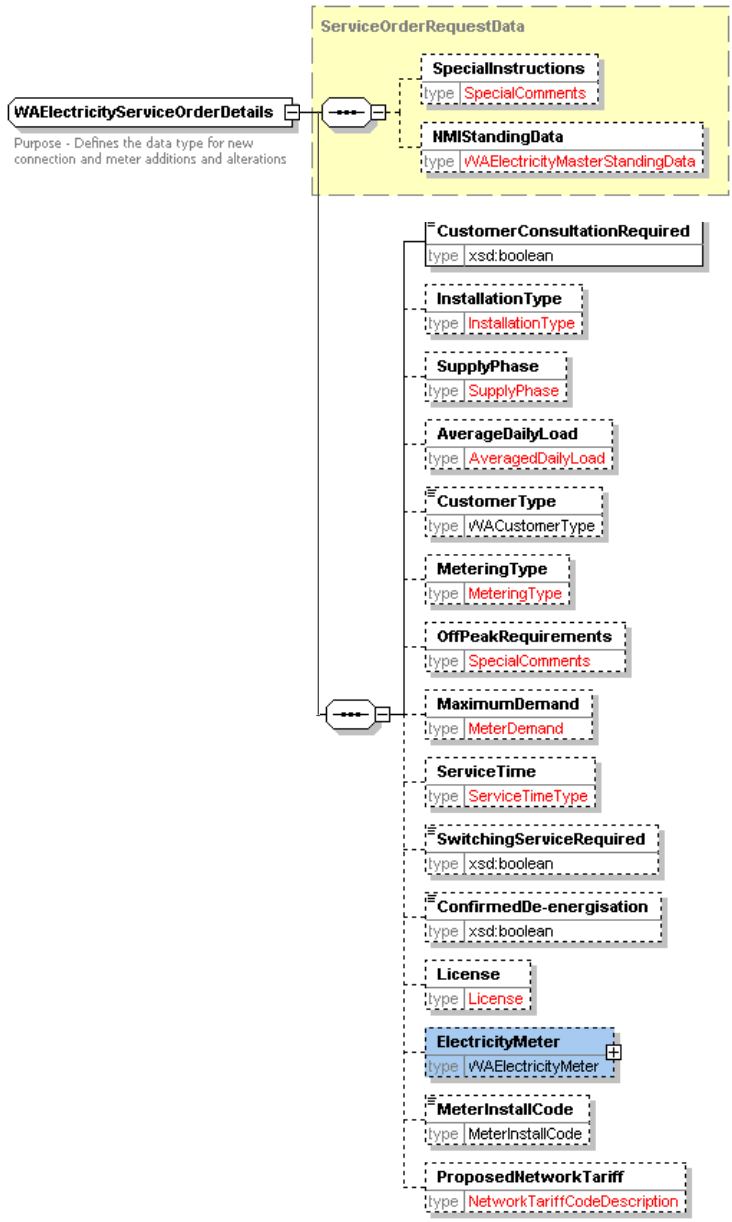

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Figure 4-24 *ase:ElectricityServiceOrderDetails* type

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The XPath used is *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/RequestData"*

Type:	*ase:WAElectricityServiceOrderDetails*

aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
SpecialInstructions/CommentLine	C	O	O	O	O	O	O	O	O	O		If WorkType = "Adds and Alts" *ase:SpecialInstructions* is: ***Mandatory*** if the Retailer: • has any special instructions for the Service Provider. • wants to advise Service Provider of any specific tariff, metering requirements or any other special requirements. Ref: [3], 2.11.11.b. For all *ase:WorkTypes ase:SpecialInstructions is* ***Mandatory*** if: • *ase:SupplyPhases* = "Other Multi-phase", or • *ase:MeteringRequired* = "Other" • *ase:CustomerConsultationRequired* = "Yes". • To support exceptional arrangements for urgent (high priority) service order requests. Ref: [3], 2.6.2.c.2. • If *ase:WorkType* = "Meter Reconfiguration", the Retailer must specify the required configuration in the *ase:SpecialInstructions* field. Ref: [3], 2.11.9.a. • If *ase:@actionType* = "Replace", the *ase:ServiceOrderNumber* value of the rejected Request must be included in the *ase:SpecialInstructions* field. Ref: [3], 2.2.1.i.4. Note: This field comprises 3 lines of 80 characters, requiring concatenation of the fields if they are populated.

Type:	ase:WAElectricityServiceOrderDetails											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
NMIStandingData	O											Implemented as *ase:ElectricityStandingData* type defined in Figure 4-26 Electricity Standing Data Diagram (xsi:type = '*ase:ElectricityStandingData*'
CustomerConsultation Required	M	M	M	M	M	M	M	M	M	M M		**True / False**. If "**True**" is used, the reason for the need to consult with the Customer must be provided in *ase:SpecialInstructions*. Not used for a "Cancel" ase:ServiceOrderRequest unless *SpecialInstructions/CommentLine* is provided.
InstallationType	O	N	M	N	N	N		N	N	N O		Code indicating the type of installation required. **Not used** for a "Cancel" ase:ServiceOrderRequest.
			–				O					***Mandatory*** if detail is known by the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
SupplyPhase	O	N		N	N	N		N	N	N O		Code indicating number of phases supply is to support. **Not used** for a "Cancel" ase:ServiceOrderRequest.
			O				O					***Mandatory*** if detail is known by the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
AverageDailyLoad	O	M		N	N	N		N	N	N O		Numerical load value in kWh. **Not used** for a "Cancel" ase:ServiceOrderRequest.
			O				O					***Mandatory*** if detail is known by the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type:	ase:WAElectricityServiceOrderDetails											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
CustomerType	O	M	M	N	N	N		N	N	N	O	Code indicating customer type. **Not used** for a "Cancel" ase:ServiceOrderRequest.
							O					***Mandatory*** if detail is known by the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
MeteringType	O	N		N	N	N		N	N	N	O	Code indicating new type of metering required for Basic Metered and MRIM Sites (Types 5 and 6) only. If "Other" used then further details must be provided as *ase:SpecialInstructions*.
			O									***Mandatory*** if type of meters is 5 or 6. **Not used** for a "Cancel" ase:ServiceOrderRequest.
							O					***Mandatory*** if type of metering required known to the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
OffPeakRequirements/ CommentLine	C	N	M	N	N	N		N	N	N	O	Details of any off-peak requirements. Mandatory for WA Market New Connection Service Orders
			~~O~~				O					***Mandatory*** if type of metering required known to the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type:	ase:WAElectricityServiceOrderDetails											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
MaximumDemand	O			N	N	N		N	N	N	O	Maximum demand (in kw) of installation in accordance with Australian Standard AS3000 (calculated at 240 volts).
		O	O				O					***Mandatory*** if known to the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
ServiceTime	O	N	M	M	M	M	M	M	M	M	M	Indicates time the Retailer requires the service to be performed. **Not used** for a "Cancel" ase:ServiceOrderRequest.
SwitchingService Required	O	N	M	N	N	N	N	N	N	N	O	Service Provider expected to provide and install a switching service (e.g. time-switch or ripple controller). **Not used** for a "Cancel" ase:ServiceOrderRequest.
												Mandatory if Retailer knows detail. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type:	ase:WAElectricityServiceOrderDetails											
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
Confirmed De-energisation	O	N	N	N	M	N	N	N	N	N	N	Allowed values: "False" = Default value. The normal business rules regarding de-energisation apply. "True" = Retailer has confirmed accuracy of customer details and Retailer requires a de-energisation irrespective of other re-energisation Requests from prospective Retailers. The value of "True" can only be used by the Retailer where the earlier De-energisation request was not performed by the DNSP due to a conflicting Re-energisation request by another Retailer. Ref [3] 1.12.14.e and 2.12.14.2. **Not used** for a "Cancel" ase:ServiceOrderRequest.
License	O											Implemented as License type defined in Figure 4-25 *ase:License* type
ElectricityMeter	O											Implemented as ElectricityMeter type defined in Figure 4-27: ase:WAElectricityMeter type
MeterInstallCode	O	N		N	N	N		N	N	N	O	Indicates what sort of metering equipment is required. **Not used** for a "Cancel" ase:ServiceOrderRequest.
			O				O					***Mandatory*** if Retailer knows detail. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type:	ase:WAElectricityServiceOrderDetails											
aseXML Schema		B2B Procedure										
Element	Mandatory / Optional	Allocate NMI	New Connection (WA, ACT, Vic & SA only)	Re-energisation	De-energisation	Special Read	Adds and Alts (WA, ACT, Vic & SA only)	Meter Reconfiguration	Meter Investigation	Supply Abolishment	Miscellaneous	Definition & Usage
ProposedNetworkTariff	O	N		N	N	N		N	N	N	O	Indicates the new network tariff required by the retailer. Only one (1) tariff is allowed in WA. **Not used** for a "Cancel" ase:ServiceOrderRequest.
			O				O					***Mandatory*** if Retailer knows detail. Only one (1) tariff is allowed in WA. **Not used** for a "Cancel" ase:ServiceOrderRequest.

Table 4-31: *ase:ElectricityServiceOrderDetails* Data

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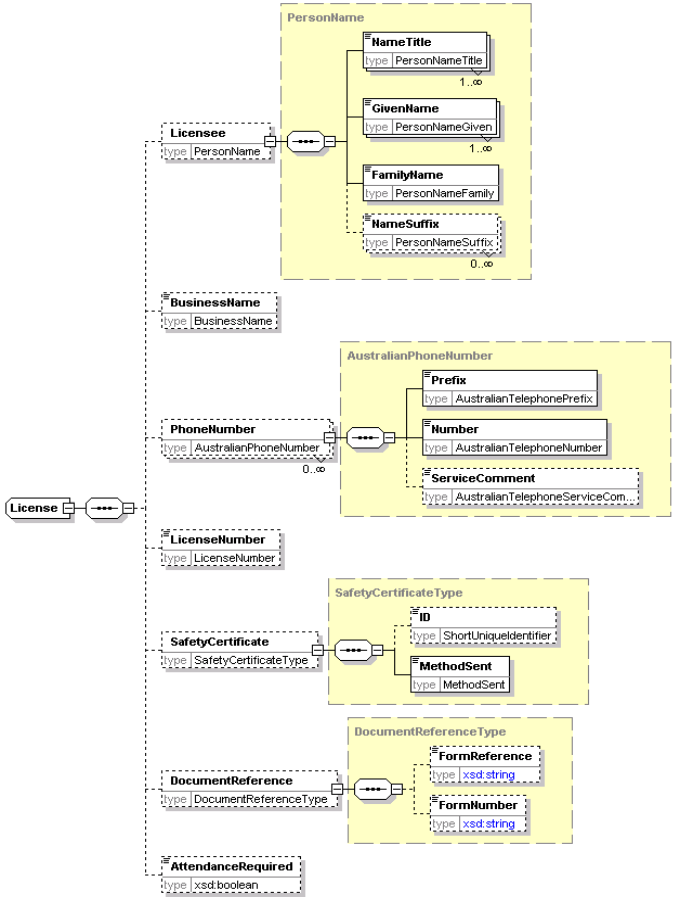
License type

License type is used for the License element in the WAElectricityServiceOrderDetails and has the following structure:



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1290 **Figure 4-25 *ase:License* type**

The XPath used is "/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/RequestData/License".

Type: License												
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / \Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
Licensee	O	N	N	N	N	N		N	N N		O	Registered Electrical Contractor name title. **Not used** for a "Cancel" ase:ServiceOrderRequest.
							O					***Mandatory*** if Retailer knows detail. **Not used** for a "Cancel" ase:ServiceOrderRequest.
BusinessName	O	N	N	N	N	N		N	N N		O	Registered Electrical Contractor Business Name. **Not used** for a "Cancel" ase:ServiceOrderRequest.
							O					***Mandatory*** if Retailer knows detail. **Not used** for a "Cancel" ase:ServiceOrderRequest.
PhoneNumber	O	N	N	N	N	N		N	N N		O	Registered Electrical Contractor telephone number prefix. **Not used** for a "Cancel" ase:ServiceOrderRequest.
							O					***Mandatory*** if Retailer knows detail. **Not used** for a "Cancel" ase:ServiceOrderRequest. A maximum of THREE Telephone numbers may be provided

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Type: License												
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / \Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
LicenseNumber	O	N	N	N	N	N		N	N N		O	Registered Electrical Contractor ID/ licence number. **Not used** for a "Cancel" ase:ServiceOrderRequest.
							O					***Mandatory*** if Retailer knows detail. **Not used** for a "Cancel" ase:ServiceOrderRequest.
SafetyCertificate/ID	O	N			N	N		N	N N		O	Reference to the safety certificate number used in each jurisdiction. Victoria = CES; SA = ECC; ACT = Inspection Certificate; NSW = not applicable. WA = not applicable.
			O				O					***Mandatory*** if Connection Point is located in Victoria, SA and ACT. **Not used** for a "Cancel" ase:ServiceOrderRequest.
				O								***Mandatory*** if Connection Point is located in Victoria for the sites that have been de-energised for more than 12 months. **Not used** for a "Cancel" ase:ServiceOrderRequest.
SafetyCertificate/MethodSent	C	N	N		N	N		N	N N		O	Code indicating how the safety certificate has been provided. **Not used** for a "Cancel" ase:ServiceOrderRequest.
				O			O					***Mandatory*** if known by Retailer.

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Type: License												
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / \Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
DocumentReference/ FormReference	O	N	N	N	N	N		N	N		O	Reference to the forms associated with New Connections and Meter Adds and Alts used in each jurisdiction. Victoria = EWR, NOMW; SA = Form A; ACT = RFS; NSW = not applicable. This field should be the type of the form.
							O					***Mandatory*** if Connection Point is located in Victoria, SA and ACT, and detail is known by Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
										O		***Mandatory*** if Connection Point is located in SA, and detail is known by Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type: License												
aseXML Schema		**B2B Procedure**										
Element	**Mandatory / \Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
DocumentReference/ FormNumber	O	N		N	N	N		N	N		O	Reference to the forms associated with New Connections and Meter Adds and Alts used in each jurisdiction. Victoria = EWR, NOMW; SA = NSF, MAA; ACT = RFS; NSW = not applicable. This field should be the number on the form (if it is numbered).
			O				O					***Mandatory*** if Connection Point is located in WA, Victoria, SA and ACT, and detail is known by Retailer. In WA, the Retailer entry new connection process requires retailers to provide a reference that aligns with a reference number provided to the customer by the Retailer. E.g. this might be a retailer account number for the customer.**Not used** for a "Cancel" ase:ServiceOrderRequest.
										O		***Mandatory*** if Connection Point is located in SA, and detail is known by Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
AttendanceRequired	O	N	N	N	N	N	M	N	N N		O	Does Registered Electrical Contractor (REC) need to be present when the DNSP performs the Field Work? true = REC to be present. false= No need to have REC present. **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Table 4-32: *ase:License* Data

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***ase:WAElectricityStandingData* type**

ase:WAElectricityStandingDataType is used for *ase:NMIStandingData* element in the ase:ServiceOrderRequest transaction.

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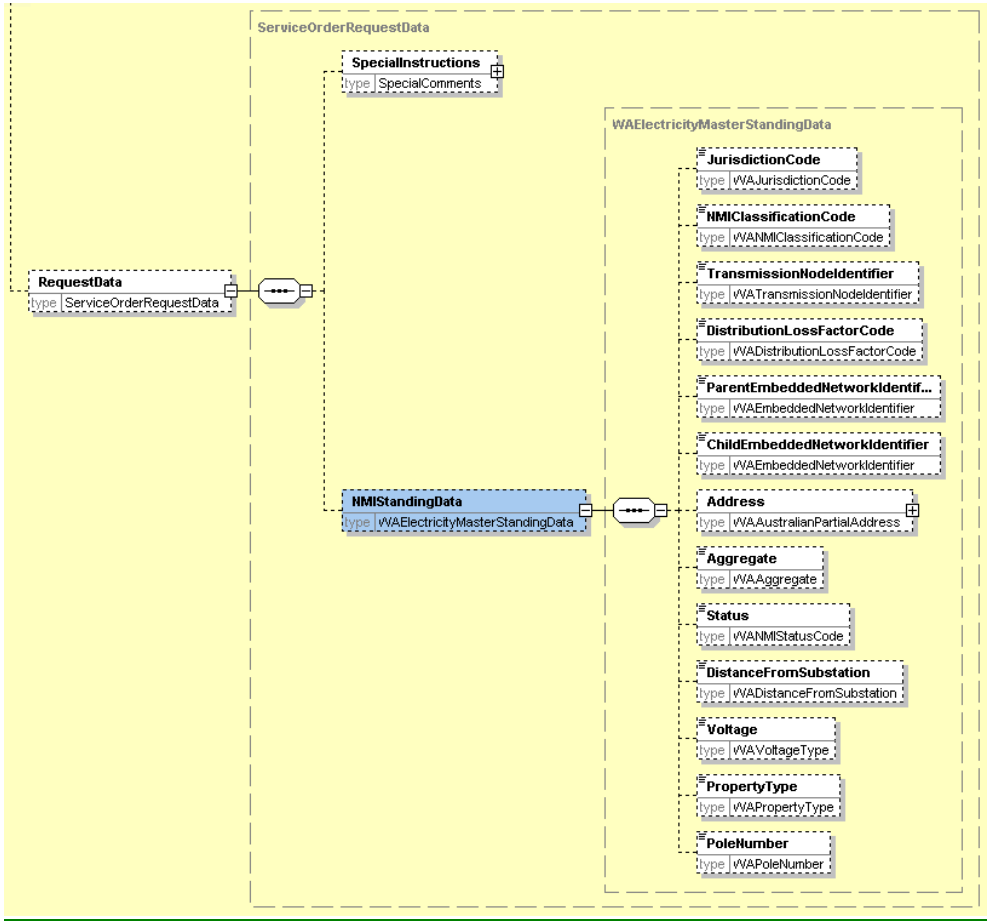

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Figure 4-26 Electricity Standing Data Diagram

The XPath used is *"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/RequestData/NMIStandingData"*

Type: *ase:WAElectricityStandingData*

aseXML Schema		B2B Procedure										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
ParentEmbeddedNetworkIdentifier	O			N	N	N	N	N	N N	N		Valid MSATS parent identifier.
		O	O									***Mandatory*** if known to the Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest.
Status	O	N	M	N	N	N	M	N	N N	O		Status Code that the NMI is to become after completion of the Service Order. Allowed values defined in List of Codes **Not used** for a "Cancel" ase:ServiceOrderRequest.

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Type: *ase:WAElectricityStandingData*

aseXML Schema		B2B Procedure										
Element	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**

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Table 4-33: *ase:ElectricityStandingData* Data

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ElectricityMeter

ElectricityMeter type is used for the ElectricityMeter element in the WAElectricityServiceOrderDetails and has the following structure:

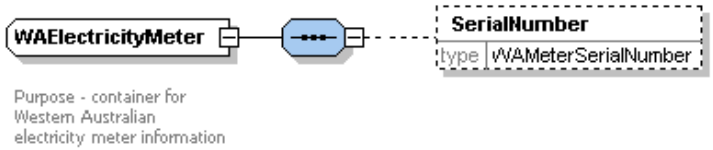

Figure 4-27: *ase:WAElectricityMeter* type

The XPath used is "/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/RequestData/ElectricityMeter".

Type: WAElectricityMeter												
aseXML Schema		**B2B Procedure**										
Element *(Note: Further elements are available for this Type, but these are not used for these transactions)*	**Mandatory / Optional**	**Allocate NMI**	**New Connection** (WA, ACT, Vic & SA only)	**Re-energisation**	**De-energisation**	**Special Read**	**Adds and Alts** (WA, ACT, Vic & SA only)	**Meter Reconfiguration**	**Meter Investigation**	**Supply Abolishment**	**Miscellaneous**	**Definition & Usage**
SerialNumber	O			O	O		O	O	O		O	***Mandatory*** where any work is specific to a given meter and *ase:SerialNumber* is known by Retailer. **Not used** for a "Cancel" ase:ServiceOrderRequest or where requested work affects all meters.
		N	N			N				N		

Table 4-34: *ase:WAElectricityMeter* data

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XML Samples – Service Order Request

The samples for the following service order request types have been provided

- New Connection
- Re-energisation
- De-energisation. *ase:ConfirmedDe-energisation* value = true
- Special Read
- Supply Abolishment
- Adds And Alts
- Meter Reconfiguration
- Meter Investigation

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Retailer requests a NMI for a site prior to its connection to the network. Customer contracts with a Retailer and the Retailer wants the site to be allocated to the FRMP from the date of creation of the NMI in MSATS.¶
Sample :¶

```
<#>NSW and ACT only¶
<#>WorkType: Allocate NMI¶
<#>Subtype: (Not used)¶
¶
<?xml version="1.0" encoding="UTF-8"?>¶
<ase:aseXML xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">¶
  <Header>¶
    <From>AGLE</From>¶
    <To>INTEGP</To>¶
    <MessageID>0F9E5ABE-3122-40A5-AE05-C47FFFC77777</MessageID>¶
    <MessageDate>2005-10-17T09:30:47+10:00</MessageDate>¶
    <TransactionGroup>SORD</TransactionGroup>¶
    <Priority>Medium</Priority>¶
    <Market>NEM</Market>¶
  </Header>¶
  <Transactions>¶
    <Transaction transactionID="ABCDSOLD663005143f170111111" transactionDate="2005-10-17T09:30:40+10:00">¶
      <ServiceOrderRequest version="r17" actionType="New">¶
        <ServiceOrder>¶
          <Address>¶
            <AustralianAddress>¶
              <StructuredAddress>¶
                <House>¶
                  <HouseNumber>100</HouseNumber>¶
                </House>¶
                <Street>¶
                  <StreetName>Park</StreetName>¶
                  <StreetType>ST</StreetType>¶
                </Street>¶
              </StructuredAddress>¶
              <SuburbOrPlaceOrLocality>Leeton</Sub
```

... [140]

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New Connection

Retailer requests a Service Provider to arrange a new supply connection to a specified address. Retailer specifies preferred timeframe and relevant installation requirements. Customer contacts a Retailer to make arrangements for a new supply connection at a specified address.

A new connection can arise in a number of circumstances, including:

- a customer moving into a new premise which currently does not receive an electricity supply; or
- a builder wishes to provide permanent or temporary supply to new properties under construction.

Sample:

- WA, ACT, Vic & SA only
- WorkType: New Connection
- NMI is not supplied. Instead the Address is supplied.
- Service Order in Western Australia

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```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080722083947.0208</MessageID>
        <MessageDate>2008-07-22T08:39:47+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080722_FORE_081511_1" transactionDate="2008-07-22T08:55:24+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <Address>
                        <AustralianAddress>
                            <StructuredAddress>
                                <FlatOrUnit>
                                    <FlatOrUnitType>U</FlatOrUnitType>
                                    <FlatOrUnitNumber>4</FlatOrUnitNumber>
                                </FlatOrUnit>
                                <House>
                                    <HouseNumber>8</HouseNumber>
                                </House>
                                <Lot>
                                    <LotNumber>21</LotNumber>
                                </Lot>
                                <Street>
                                    <StreetName>ISOBEL</StreetName>
                                    <StreetType>ST</StreetType>
                                </Street>
                            </StructuredAddress>
                            <SuburbOrPlaceOrLocality>BENTLEY</SuburbOrPlaceOrLocality>
                            <StateOrTerritory>WA</StateOrTerritory>
                            <PostCode>6102</PostCode>
                        </AustralianAddress>
                    </Address>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Permanent">New Connection</WorkType>
                    </ServiceOrderType>
```

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```
                <ServiceOrderNumber>81511</ServiceOrderNumber>
            </ServiceOrder>
            <ServicePoint>
                <AccessDetails>Customer Reports No Access Requirements</AccessDetails>
            </ServicePoint>
            <AppointmentDetail>
                <ScheduledDate>2008-07-23</ScheduledDate>
                <Preferred>
                    <Date>2008-07-23</Date>
                </Preferred>
            </AppointmentDetail>
            <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                <NMIStandingData>
                    <Status>A</Status>
                </NMIStandingData>
                <CustomerConsultationRequired>false</CustomerConsultationRequired>
                <InstallationType>Underground</InstallationType>
                <SupplyPhase>1-phase</SupplyPhase>
                <AverageDailyLoad>77</AverageDailyLoad>
                <CustomerType>Domestic</CustomerType>
                <MeteringType>Other</MeteringType>
                <OffPeakRequirements>
                    <CommentLine>None provided</CommentLine>
                </OffPeakRequirements>
                <MaximumDemand>88</MaximumDemand>
                <ServiceTime>Business Hours</ServiceTime>
                <SwitchingServiceRequired>false</SwitchingServiceRequired>
                <ConfirmedDe-energisation>false</ConfirmedDe-energisation>
                <License>
                    <DocumentReference>
                        <FormNumber>821723910</FormNumber>
                    </DocumentReference>
                </License>
                <MeterInstallCode>BASIC</MeterInstallCode>
                <ProposedNetworkTariff>AER</ProposedNetworkTariff>
            </RequestData>
        </ServiceOrderRequest>
    </Transaction>
</Transactions>
</ase:aseXML>
```

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Re-energisation

Retailer requests a Service Provider to arrange for a Supply Point to be re-energised.

Sample:

- WorkType: Re-Energisation
- Site is in Western Australia and Victoria and has been de-energised for non-payment

Deleted: more than 12 months

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080704101741.0682</MessageID>
        <MessageDate>2008-07-04T10:17:41+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080704_KUNC_032454_1" transactionDate="2008-07-04T10:17:18+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
```

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```
                <NMI checksum="2">8001697784</NMI>
                <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                    <WorkType workSubType="After Disconnection For Non-Payment">Re-energisation</WorkType>
                </ServiceOrderType>
                <ServiceOrderNumber>032454_1</ServiceOrderNumber>
            </ServiceOrder>
            <ServicePoint>
                <AccessDetails>Report to the reception at the gate</AccessDetails>
                <Hazard>
                    <Description>Be aware of dogs</Description>
                </Hazard>
            </ServicePoint>
            <ContactDetail>
                <PersonName nameType="LGL">
                    <NameTitle>Mr</NameTitle>
                    <GivenName>John</GivenName>
                    <FamilyName>Smith</FamilyName>
                </PersonName>
                <PhoneNumber serviceType="Mobile Voice">
                    <Prefix>0411</Prefix>
                    <Number>792805</Number>
                </PhoneNumber>
            </ContactDetail>
            <CustomerDetail>
                <PersonName nameType="MDN">
                    <NameTitle>Ms</NameTitle>
                    <GivenName>Leslie</GivenName>
                    <FamilyName>Edwards</FamilyName>
                </PersonName>
                <PhoneNumber serviceType="Fixed Voice">
                    <Prefix>03</Prefix>
                    <Number>98575969</Number>
                </PhoneNumber>
            </CustomerDetail>
            <AppointmentDetail>
                <ScheduledDate>2008-07-04</ScheduledDate>
                <Preferred>
                    <Date>2008-07-04</Date>
                    <Time>11:00:00+08:00</Time>
                    </Preferred>
            </AppointmentDetail>
            <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                <SpecialInstructions>
                    <CommentLine>This is an industrial customer, please contact directly to organise</CommentLine>
                    <CommentLine> work requested</CommentLine>
                </SpecialInstructions>
                <CustomerConsultationRequired>false</CustomerConsultationRequired>
                <ServiceTime>Business Hours</ServiceTime>
                <ElectricityMeter>
                    <SerialNumber>0200000653</SerialNumber>
                </ElectricityMeter>
            </RequestData>
        </ServiceOrderRequest>
    </Transaction>
</Transactions>
</ase:aseXML>
```

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De-energisation

Retailer requests Service Provider to arrange for a Supply Point to be de-energised.

Methods include:

- Remove Fuse
-
- Turn off main switch
- Meter Disconnection (meter wire disconnection or turn meter)

Deleted: Turn off main switch and sticker

Deleted: <#>Disconnection at pole top, pillar box or pit¶

A need to de-energise a supply point can arise in these situations:

- where the Retailer has grounds to proceed with a de-energisation for non-payment (where the customer has failed to meet their obligations under jurisdictional rules).
- the customer requires a temporary disconnection of supply because the site is to be left vacant for a time; or
- the customer is moving out of a premise and no new tenant has requested supply at the same address.

Scenario:

- WorkType: De-Energisation
- Subtype: Remove Fuse
- No customer consultation required

Deleted: Pillar-Box Pit Or Pole-Top (Non-Payment)

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080702105226.0481</MessageID>
        <MessageDate>2008-07-02T10:52:26+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080702_WELC_032941_1" transactionDate="2008-07-02T10:27:36+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <NMI checksum="2">8001243162</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Remove Fuse">De-energisation</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>032941_1</ServiceOrderNumber>
                </ServiceOrder>
                <ServicePoint>
                    <AccessDetails>Not Known To Retailer</AccessDetails>
                </ServicePoint>
                <ContactDetail>
                    <PersonName nameType="LGL">
                        <NameTitle>Mr</NameTitle>
                        <GivenName>John</GivenName>
                        <FamilyName>Smith</FamilyName>
                    </PersonName>
```

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```
                    <PhoneNumber serviceType="Mobile Voice">
                        <Prefix>0411</Prefix>
                        <Number>792805</Number>
                    </PhoneNumber>
                </ContactDetail>
                <AppointmentDetail>
                    <ScheduledDate>2008-07-02</ScheduledDate>
                    <Preferred>
                        <Date>2008-07-02</Date>
                    </Preferred>
                </AppointmentDetail>
                <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                    <CustomerConsultationRequired>false</CustomerConsultationRequired>
                    <ServiceTime>Business Hours</ServiceTime>
                    <ConfirmedDe-energisation>false</ConfirmedDe-energisation>
                    <ElectricityMeter>
                        <SerialNumber>0200000435</SerialNumber>
                    </ElectricityMeter>
                </RequestData>
            </ServiceOrderRequest>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Special Read

Retailer requests a Service Provider to perform a Special Read of a manually read meter.

This is a reading not associated with a re-energisation or a de-energisation.

A need to obtain a special read (rather than a scheduled read) arises for manually read metering where an out of cycle reading is required.

Sample:

- WorkType: Special Read
- WorkSubType: Check Read
- Customer consultation required

Deleted: and Service Provider (INTEGM) needs to contact Retailer (AGLE)

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080704105222.0114</MessageID>
        <MessageDate>2008-07-04T10:52:22+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080704_GERC_110305_1" transactionDate="2008-07-04T11:00:50+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <NMI checksum="9">8002003380</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Check Read">Special Read</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>110305_1</ServiceOrderNumber>
                </ServiceOrder>
                <ServicePoint>
                    <AccessDetails>Reports No Access Requirements</AccessDetails>
                    <Hazard>
                        <Description>Be aware of dogs</Description>
                    </Hazard>
                </ServicePoint>
                <AppointmentDetail>
                    <ScheduledDate>2008-07-07</ScheduledDate>
                    <Preferred>
                        <Date>2008-07-07</Date>
                    </Preferred>
                </AppointmentDetail>
                <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                    <SpecialInstructions>
                        <CommentLine>Please contact directly to organise completion </CommentLine>
                        <CommentLine>of work requested</CommentLine>
                    </SpecialInstructions>
                    <CustomerConsultationRequired>true</CustomerConsultationRequired>
                    <ServiceTime>Business Hours</ServiceTime>
                    <ElectricityMeter>
                        <SerialNumber>0350001064</SerialNumber>
                    </ElectricityMeter>
                </RequestData>
            </ServiceOrderRequest>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Supply Abolishment

Retailer requests the Service Provider to abolish supply at a given Supply Point. This involves decommissioning of a NMI and all associated metering (e.g. demolition of customer's site). Whilst this service order can be used to terminate a single meter, it should only be used where the removal of this single meter also constitutes the abolishment of the supply.

Typically a customer (or their agent) may request a Supply Abolishment for a number of reasons, such as where:

- a property is to be demolished or its usage changed and a supply is no longer required; or
- an alternative supply point can be used and the redundant supply is to be removed.

Note: no de-energisation request required unless the de-energisation is to take place at some time prior to the supply abolishment.

Sample:

- WorkType: Supply Abolishment
- WorkSubType: (Not Used)

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```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080702164220.0074</MessageID>
        <MessageDate>2008-07-02T16:42:20+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080702_STRE_086795_1" transactionDate="2008-07-02T16:54:18+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <NMI checksum="1">8001561372</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType>Supply Abolishment</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>086795_1</ServiceOrderNumber>
                </ServiceOrder>
                <ServicePoint>
                    <AccessDetails>Hard to access. Lots of bush around</AccessDetails>
                    <Hazard>
                        <Description>Be aware of dogs</Description>
                    </Hazard>
                </ServicePoint>
                <AppointmentDetail>
                    <ScheduledDate>2008-07-03</ScheduledDate>
                    <Preferred>
                        <Date>2008-07-03</Date>
                    </Preferred>
                </AppointmentDetail>
                <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                    <SpecialInstructions>
                        <CommentLine>Urgent removal of supply</CommentLine>
                    </SpecialInstructions>
```

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```
                <CustomerConsultationRequired>false</CustomerConsultationRequired>
                <ServiceTime>Business Hours</ServiceTime>
                <ElectricityMeter>
                    <SerialNumber>0181030438</SerialNumber>
                </ElectricityMeter>
            </RequestData>
        </ServiceOrderRequest>
    </Transaction>
</Transactions>
</ase:aseXML>
```

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Additions and Alterations

Retailers request a Service Provider to change the metering associated with a supply point.

This service order process applies to all physical changes to a supply point during its life cycle. It excludes New Connection and Supply Abolishment. Additional exclusions are listed at Ref: [3] 1.4.2.b.

An Adds and Alts ase:ServiceOrderResponse can arise for a large number of reasons related to making a physical change to the supply at a given supply point. These include:

- Removal of meter; or
- Meter replacement (at request of Retailer)

Sample:

- ACT, Vic, WA & SA only
- WorkType: Meter Add and Alts
- WorkSubType: Exchange Meter
- Service point in Victoria

Deleted: <#>Installation or Decommissioning of a hot water meter; or¶

Deleted: /time-switch

Deleted: <#>Change a single phase supply into a multi-phase supply (metering only); or¶

Deleted: ;

Deleted: <#>Relocation of the service line not involving change of the NMI for a supply point; or¶
<#>Move a meter (e.g. to facilitate building works at customer's site) but not decommission the NMI.¶

Deleted: Install Hot Water

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```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080702155117.0000</MessageID>
        <MessageDate>2008-07-02T15:51:17+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080702_KELE_045053_1R" transactionDate="2008-07-02T15:51:17+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <NMI checksum="0">8001799948</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Exchange Meter">Adds And Alts</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>045053_1R</ServiceOrderNumber>
                </ServiceOrder>
                <ServicePoint>
                    <AccessDetails>Customer Reports No Access Requirements</AccessDetails>
                    <Hazard>
                        <Description>Customer Reports No Hazard</Description>
                    </Hazard>
                </ServicePoint>
                <CustomerDetail>
                    <PersonName nameType="LGL">
                        <NameTitle>Mr</NameTitle>
                        <GivenName>Michael</GivenName>
                        <FamilyName>Lonley</FamilyName>
                    </PersonName>
                    <PhoneNumber serviceType="Mobile Voice">
                        <Prefix>0413</Prefix>
                        <Number>365805</Number>
                    </PhoneNumber>
                </CustomerDetail>
                <AppointmentDetail>
```

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```
                <ScheduledDate>2008-07-02</ScheduledDate>
                <Preferred>
                    <Date>2008-07-02</Date>
                </Preferred>
            </AppointmentDetail>
            <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                <SpecialInstructions>
                    <CommentLine>REBS, MY010567, RESM (SMARTPOWER) </CommentLine>
                    <CommentLine>MR CYEONG 0402128840</CommentLine>
                </SpecialInstructions>
                <NMIStandingData>
                    <Status>A</Status>
                </NMIStandingData>
                <CustomerConsultationRequired>false</CustomerConsultationRequired>
                <InstallationType>Underground</InstallationType>
                <SupplyPhase>1-phase</SupplyPhase>
                <AverageDailyLoad>77</AverageDailyLoad>
                <CustomerType>Domestic</CustomerType>
                <MeteringType>Other</MeteringType>
                <OffPeakRequirements>
                    <CommentLine>None provided</CommentLine>
                </OffPeakRequirements>
                <MaximumDemand>88</MaximumDemand>
                <ServiceTime>Business Hours</ServiceTime>
                <ElectricityMeter>
                    <SerialNumber>0181013118</SerialNumber>
                </ElectricityMeter>
                <ProposedNetworkTariff>AER</ProposedNetworkTariff>
            </RequestData>
        </ServiceOrderRequest>
    </Transaction>
</Transactions>
</ase:aseXML>
```

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Meter Reconfigurations

Retailer requests the Service Provider to reconfigure/ reprogram the metering at a given Supply Point.

This includes:

- Change the hours of application of different registers (eg. peak and off-peak boundaries).
- Turn on/off off-peak registers.
- Off peak conversion (change from one off-peak control load tariff to another).
- A meter reconfiguration ServiceOrderRequest usually arises where a meter needed to be reprogrammed to reflect a tariff change to the customer.

Sample:

- WorkType: Meter Reconfiguration
- Subtype: Change Tariff

Deleted: Controlled Load

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080703094641.0193</MessageID>
        <MessageDate>2008-07-03T09:46:41+08:00</MessageDate>
```

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```
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080703_PICC_135413_1" transactionDate="2008-07-03T09:52:20+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <NMI checksum="6">8001749668</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Change Tariff">Meter Reconfiguration</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>135413_1</ServiceOrderNumber>
                </ServiceOrder>
                <ServicePoint>
                    <AccessDetails>Reports No Access Requirements</AccessDetails>
                </ServicePoint>
                <AppointmentDetail>
                    <ScheduledDate>2008-07-03</ScheduledDate>
                    <Preferred>
                        <Date>2008-07-03</Date>
                    </Preferred>
                </AppointmentDetail>
                <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                    <SpecialInstructions>
                        <CommentLine>Please reprogram to Time of Use</CommentLine>
                    </SpecialInstructions>
                    <CustomerConsultationRequired>false</CustomerConsultationRequired>
                    <ServiceTime>Business Hours</ServiceTime>
                    <ElectricityMeter>
                        <SerialNumber>0200017302</SerialNumber>
                    </ElectricityMeter>
                </RequestData>
            </ServiceOrderRequest>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Meter Investigations

Retailer requests Service Provider to investigate the metering at a given Supply Point. Retailer may provide a context for this request.

A need to investigate a supply point can arise in two distinct situations:

- where a customer raises a request with their Retailer to investigate a meter fault; or
- where the Retailer has grounds to proceed with an investigation.

Typically a customer may request an investigation where they believe that there is a problem with the metering installation.

A Retailer may request an investigation on the grounds of:

- suspected fraud/tampering;
- consistent abnormal meter readings suspected to be caused by a faulty meter.

Sample:

- WorkType: Meter Investigation
- WorkSubType: Inspect

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080702131630.0585</MessageID>
        <MessageDate>2008-07-02T13:16:30+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080702_BELM_039302_1" transactionDate="2008-07-02T13:31:07+08:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <NMI checksum="8">8001035249</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Inspect">Meter Investigation</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>039302_1</ServiceOrderNumber>
                </ServiceOrder>
                <ServicePoint>
                    <AccessDetails>Not Known To Retailer</AccessDetails>
                    <Hazard>
                        <Description>Be Aware Of Electric Fence</Description>
                    </Hazard>
                </ServicePoint>
                <AppointmentDetail>
                    <ScheduledDate>2008-07-02</ScheduledDate>
                    <Preferred>
                        <Date>2008-07-02</Date>
                    </Preferred>
                </AppointmentDetail>
                <RequestData version="r17" xsi:type="ase:WAElectricityServiceOrderDetails">
                    <SpecialInstructions>
                        <CommentLine>Please contact directly to organise completion </CommentLine>
                        <CommentLine>of work requested</CommentLine>
                    </SpecialInstructions>
                    <CustomerConsultationRequired>false</CustomerConsultationRequired>
```

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```
                <ServiceTime>Business Hours</ServiceTime>
                <ElectricityMeter>
                    <SerialNumber>450M5620</SerialNumber>
                </ElectricityMeter>
            </RequestData>
        </ServiceOrderRequest>
    </Transaction>
</Transactions>
</ase:aseXML>
```

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Cancel Service Order

Special Read Service Order with service order number = '227844_1'

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Sample:

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- @actionType = 'Cancel'
- WorkType = 'Special Read'
- ServiceOrderNumber = '227844_1'

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```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080729154324.0624</MessageID>
        <MessageDate>2008-07-29T15:43:24.956+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="CIS_20080726_FREM_227844_1C" transactionDate="2008-07-
29T15:43:24.956+08:00">
            <ServiceOrderRequest version="r17" actionType="Cancel">
                <ServiceOrder>
                    <NMI checksum="1">8001170039</NMI>
                    <ServiceOrderType version="r17" xsi:type="ase:WAElectricityServiceOrderType">
                        <WorkType workSubType="Final Read">Special Read</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>227844_1</ServiceOrderNumber>
                </ServiceOrder>
            </ServiceOrderRequest>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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4.2.4. Service Order Response

Service order response is implemented using the ase:ServiceOrderResponse transaction.

Upon the successful, partially successful or unsuccessful, completion of the work requested in the ase:ServiceOrderRequest, the Service Provider must send an ase:ServiceOrderResponse to the Retailer with details of the status of the requested work.

The level of success of the work completion will be indicated by the *ase:ServiceOrderStatus*.

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The *ase:ServiceOrderStatus* reflects whether the requested work was:

- Completed ("Completed") - If the work is deemed complete, this means that all aspects of the work requested have been completed. In this case, the *ase:ExceptionCode* is not required.
- Partially completed ("Partially Completed") - If the Service Provider has completed the primary work (described by the *ase:WorkType*) but was unable to complete the associated actual meter reading, the *ase:ServiceOrderStatus* must be "Partially Completed". In this case a substituted meter reading will be provided subsequently by the MDP using an ase:MeterDataNotification.

  Where the *ase:ServiceOrderStatus* is "Partially Completed", the *ase:ResponseCode* must be used to indicate the reason the meter read could not be taken.
- Not completed ("Not Completed") - If the primary work requested could not be completely fulfilled, the *ase:ServiceOrderStatus* must be "Not Completed" and the reason for the work being incomplete must be indicated using an *ase:ResponseCode*.

If the work is not completed or only partially completed, and is still required to be completed, the Retailer should raise a new ase:ServiceOrderRequest *(*with new *ase:ServiceOrderNumber*).

The following rules apply to the use of the Product Code fields.

- Any chargeable work should be identified by using one or more applicable *ase:ProductCodes*.
- The *ase:ProductCode* "Cost TBA" cannot be used for Re-energisation, De-energisation and Special Read ase:ServiceOrderRequests; and
- The *ase:ProductCode* "Cost TBA" must only be used when the Service Provider needs to do further investigation to determine what work was attempt or completed at the site. This *ase:ProductCode* must not be used as a default.
- Where the work done by the Service Provider does not match what was requested, the *ase:ProductCode* must correspond to the actual work done, not what was requested. An example of this situation is where the Service Provider reconciles concurrent Requests for the same NMI. Ref: [3] 2.11.2.h.

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Process Sequence

Upon completion, or attempted completion of the work requested in the ase:ServiceOrderRequest, the Service Provider must send an ase:ServiceOrderResponse to the Retailer with details of the status of the requested work.

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ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:ServiceOrderResponse	Service Provider	WA B2B Gateway	SO 2.2.1, 2.6.4, 2.6.5, 2.7
2	ase:ServiceOrderResponse	WA B2B Gateway	Retailer	

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Table 4-35: ase:ServiceOrderResponse Process Sequence

The ase:ServiceOrderResponse is sent in response to an ase:ServiceOrderRequest.

4.2.4.1. ase:ServiceOrderResponse transaction

Transaction Definition Table cross-reference	This interface realises the ServiceOrderResponse transaction from the Service Orders B2B Procedure. Ref [3].
Trigger	The Service Provider must send the Response upon the completion or attempted completion of the work requested in the related ase:ServiceOrderRequest.
Pre-conditions	Acceptance of an ase:ServiceOrderRequest.
Post-conditions	The Retailer is aware of the outcome of their ase:ServiceOrderRequest from the information contained in the ase:ServiceOrderResponse.
Transaction acknowledgment specific event codes	Refer to Appendix C.

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2020 **Table 4-36: ase:ServiceOrderResponse Summary**

The ase:ServiceOrderResponse transaction advises the Retailer of the outcome of their ase:ServiceOrderRequest.

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4.2.4.2. aseXML Transaction Implementation and Data

The transaction is implemented as the ase:ServiceOrderResponse transaction in aseXML. The ase:ServiceOrderResponse transaction uses the *ase:ServiceOrderResponse* type, which is displayed in the following schema diagram:

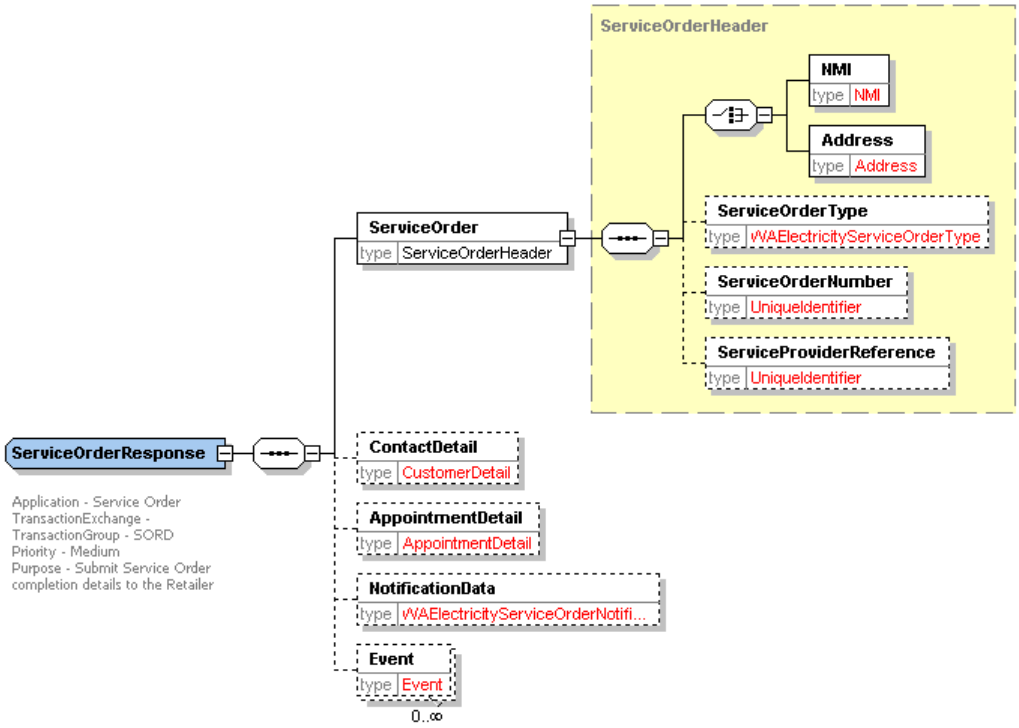

Figure 4-28: *ase:ServiceOrderResponse* type

ase:CustomerDetail type used for *ContactDetail* element is displayed in Figure 4-22.

The base XPath used for this transaction is *"/ase:aseXML/Transactions/Transaction/ServiceOrderResponse*".

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Transaction:	ase:ServiceOrderResponse		
Received From:	Service Provider		
Sent To:	Retailer		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory / Optional**	**All Responses**	**Definition & Usage**
@responseType	O	M	Allowed value = "Closure" (default = "Closure")
ServiceOrder/NMI	M[11]	O	NMI (as used by MSATS). ***Mandatory*** for all Responses except • Responses to New Connection ase:ServiceOrderRequests with a *ServiceOrderStatus* of "Not Completed".
ServiceOrder/NMI/@checksum	O	O	NMI Checksum (as used by MSATS).
ServiceOrder/Address	M[12]	O	***Mandatory*** if the NMI is not provided in the Response.
ServiceOrder/ServiceOrderNumber	O	M	Retailer defined reference, used for reference and tracking. When meter reading is provided in ase:MeterDataNotification as result of an ase:ServiceOrderRequest, the *ase:ServiceOrderNumber* may be returned in the MDFF file. Format must exactly match that used in the ase:ServiceOrderRequest (including leading or trailing zeros).
ServiceOrder/ServiceProviderReference	O	O	Service Provider defined reference used for reference and tracking. This field is for information only and must not be used for Response validation. ***Mandatory*** if the Service Provider has their own reference number associated with the ase:ServiceOrderResponse
ContactDetail/PersonName	C	O	Name of Service Provider contact. ***Mandatory*** where the Retailer may need to contact the Service Provider.

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[11] This element is mandatory if *ase:Address* not provided

[12] This element is mandatory if *ase:NMI* not provided

Transaction:	ase:ServiceOrderResponse		
Received From:	Service Provider		
Sent To:	Retailer		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory / Optional**	**All Responses**	**Definition & Usage**
ContactDetail/PhoneNumber	O	O	Contact telephone number of Service Provider. ***Mandatory*** where the Retailer may need to contact the Service Provider.
Notification data *(see details below)*	O	M	*ase:WAElectricityServiceOrderNotificationData* type used The type described in Figure 4-29 ase:WAElectricityServiceOrderNotificationData type (xsi:type = *ase:WAElectricityServiceOrderNotificationData*)

Table 4-37: ase:ServiceOrderResponse Data

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Deleted: Figure 4-29 ase:WAElectricityServiceOrder NotificationData type
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WAElectricityServiceOrderNotificationData

ase:WAElectricityServiceOrderNotificationData is used for *ase:NotificationData* element of the ServiceOrderResponse transaction. (*xsi:type* = '*ase:WAElectricityServiceOrderNotificationData')*

The base XPath used for this type is "*/ase:aseXML/Transactions/Transaction/ServiceOrderResponse/NotificationData*".

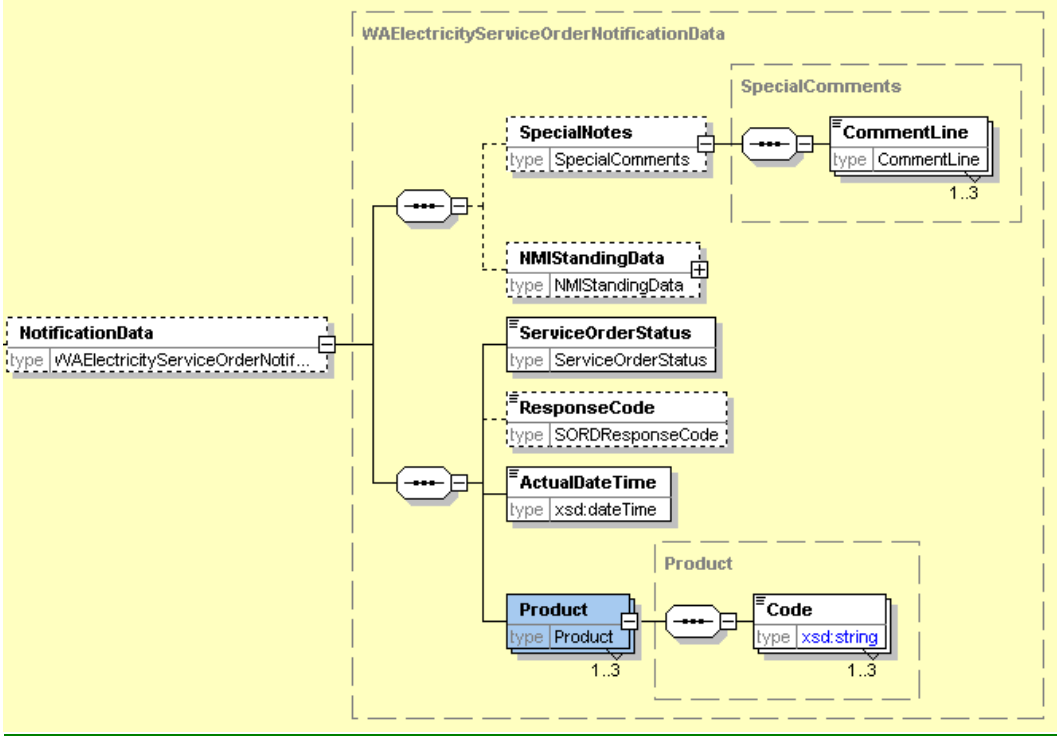

Figure 4-29 *ase:WAElectricityServiceOrderNotificationData* type

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Type: ase:WAElectricityServiceOrderNotificationData			
aseXML Schema		**B2B Procedure**	
Element Path	**Mandatory / Optional**	**All Responses**	**Definition & Usage**
NotificationData/SpecialNotes/ CommentLine	C	O	***Mandatory*** • If the Service Provider has any special notes related to the Request and fieldwork that the Service Provider wishes to make the Retailer aware of. • If an *ase:ResponseCode* value of "Other", "Service Provider Cancellation", or "Documentation Not Provided" is provided. • If *ase:ServiceOrderStatus* = "Partially Completed". • Where a Service Provider and Customer agree an alternative timeframe (other than the Required Timeframe) for the completion of requested work. Ref: [3] 2.6.3.c. • If the Service Provider installs a metering configuration different from that requested by the Retailer. Ref: [3] 2.12.5.d. Note: This field comprises 3 lines of 80 characters, requiring concatenation of the fields if they are populated.
ServiceOrderStatus	M	M	Indicates status of Service Order:
ResponseCode	O	O	***Mandatory*** if *ase:ServiceOrderStatus* is 'Not Completed' or 'Partially Completed'. The following rules apply: If *ase:ServiceOrderStatus* is 'Not Completed' allowed values are: Allowed values: • "Unable To Access" • "No Supply" • "Unsafe" • "Retailer Cancellation" • "Service Provider Cancellation" • "Other" • "Unknown Load" • "Documentation Not Provided" • "Request Submitted By Another Retailer" • "De-energisation Not Completed Due To A Re-energisation" If *ase:ServiceOrderStatus* is "Not Completed" and *ase:WorkType* (of initiating Request) = 'De-energisation'

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Type: ase:WAElectricityServiceOrderNotificationData			
aseXML Schema		**B2B Procedure**	
Element Path	**Mandatory / Optional**	**All Responses**	**Definition & Usage**
			additional allowed values are: • "Customer Prevented" • "Customer On-Site" • "New Customer On-Site". • "Sensitive Load" with the exception that the value "Customer On-Site" cannot be used for De-energisations for non-payment (*ase:WorkSubType* = "Remove Fuse (Non-payment)" or "Pillar box, Pit or Pole top (Non-payment)". Ref [3] 2.12.3.) If *ase:ServiceOrderStatus* is "Partially Completed" allowed values are: • "Metering Problem" • "Reading Problem" • "Other" ***Optional*** if *ServiceOrderStatus* is 'Completed' The value "Meter Reading Only Undertaken Due To Prior Re-energisation" may only be used where *ServiceOrderStatus* is "Completed". When *ExceptionCode* = 'Other', "Service Provider Cancellation", or "Documentation Not Provided", details have to be provided in *SpecialNotes.*
ActualDateTime	M	M	Actual date and time work was attempted or completed. Where the ServiceOrderRequest is not attempted (for example when it is cancelled), this field must be populated with the date and time of the cancellation in the Service Provider's system.
Product/Code	M	M	At least one *ase:Product/Code* must be provided in all jurisdictions, where applicable. Up to three *ase:Product/Code* elements can be used per Response, that is, the field may be repeated 3 times.

2050 **Table 4-38: *ase:WAElectricityServiceOrderNotificationData* Data**

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XML Samples – Service Order Response

Several examples that demonstrate the use of the various Use of Status and Response codes. Ref: [3] 2.6.5.

- *ase:ServiceOrderStatus* = Completed
- *ase:ServiceOrderStatus* = Partially Completed, *ase:SpecialNotes* = Details of reason meter reading not taken, *ase:ResponseCode* = one of the allowed values.
- ServiceOrderStatus = Not Completed.

Scenario:

- ServiceOrderStatus = Completed,

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Western Power Networks">WPNTWRKS</From>
        <To description="Synergy Energy">WPRTL</To>
        <MessageID>WPNTWRKSMSG-16963921</MessageID>
        <MessageDate>2008-07-02T15:52:09+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WPNTWRKS-0000-23719637" transactionDate="2008-07-02T15:52:09+08:00"
initiatingTransactionID="CIS_20080702_WELC_032941_1">
            <ServiceOrderResponse version="r17"  responseType="Closure">
                <ServiceOrder>
                    <NMI checksum="2">8001243162</NMI>
                    <ServiceOrderNumber>032941_1</ServiceOrderNumber>
                    <ServiceProviderReference>23704673</ServiceProviderReference>
                </ServiceOrder>
                <NotificationData version="r17" xsi:type="ase:WAElectricityServiceOrderNotificationData">
                    <ServiceOrderStatus>Completed</ServiceOrderStatus>
                    <ActualDateTime>2008-07-02T15:51:00+08:00</ActualDateTime>
                    <Product>
                        <Code>DE1</Code>
                    </Product>
                </NotificationData>
            </ServiceOrderResponse>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Scenario:

- ServiceOrderStatus = Partially Completed,

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Western Power Networks">WPNTWRKS</From>
        <To description="Synergy Energy">WPRTL</To>
        <MessageID>WPNTWRKSMSG-17848474</MessageID>
        <MessageDate>2008-07-29T10:22:14+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WPNTWRKS-0000-24855889" transactionDate="2008-07-29T10:22:15+08:00"
initiatingTransactionID="CIS_20080728_PORC_092688_1">
            <ServiceOrderResponse version="r17" responseType="Closure">
                <ServiceOrder>
                    <NMI checksum="8">8001305487</NMI>
                    <ServiceOrderNumber>092688_1</ServiceOrderNumber>
                    <ServiceProviderReference>24798209</ServiceProviderReference>
                </ServiceOrder>
                <NotificationData version="r17" xsi:type="ase:WAElectricityServiceOrderNotificationData">
                    <SpecialNotes>
                        <CommentLine>No Access - Gate Locked</CommentLine>
                    </SpecialNotes>
                    <ServiceOrderStatus>Partially Completed</ServiceOrderStatus>
                    <ResponseCode>Unable To Access</ResponseCode>
                    <ActualDateTime>2008-07-28T10:16:00+08:00</ActualDateTime>
                    <Product>
                        <Code>RE2</Code>
                    </Product>
                </NotificationData>
            </ServiceOrderResponse>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Scenario:

- ServiceOrderStatus = Not Completed.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Western Power Networks">WPNTWRKS</From>
        <To description="Synergy Energy">WPRTL</To>
        <MessageID>WPNTWRKSMSG-17869922</MessageID>
        <MessageDate>2008-07-29T15:47:28+08:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WPNTWRKS-0000-24883284" transactionDate="2008-07-29T15:47:28+08:00"
initiatingTransactionID="CIS_20080729_OPDA_031212_1R">
            <ServiceOrderResponse version="r17" responseType="Closure">
                <ServiceOrder>
                    <NMI checksum="7">8002028502</NMI>
                    <ServiceOrderNumber>031212_1R</ServiceOrderNumber>
                    <ServiceProviderReference>24882807</ServiceProviderReference>
                </ServiceOrder>
                <NotificationData version="r17" xsi:type="ase:WAElectricityServiceOrderNotificationData">
                    <SpecialNotes>
                        <CommentLine>No Final Read service order.  Please re-issue request</CommentLine>
                    </SpecialNotes>
                    <ServiceOrderStatus>Not Completed</ServiceOrderStatus>
                    <ResponseCode>Service Provider Cancellation</ResponseCode>
                    <ActualDateTime>2008-07-29T00:00:00+08:00</ActualDateTime>
                    <Product>
                        <Code>CAN1</Code>
                    </Product>
                </NotificationData>
            </ServiceOrderResponse>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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4.3. New Connection Appointment Notification

This process applies only in SA and ACT.

Following receipt of a New Connection ase:ServiceOrderRequest by the Service Provider, the Service Provider must send a ServiceOrderAppointmentNotification at least three days prior to the Appointment date.

The ServiceOrderAppointmentNotification business process is implemented using an ase:ServiceOrderResponse transaction.

Service Provider sends an ase:ServiceOrderResponse transaction (implementing the appointment notification business process) to the Retailer after receiving and acknowledging an ase:ServiceOrderRequest transaction.

4.3.1. ase:ServiceOrderResponse

Transaction Definition Table cross-reference	This interface realises the ServiceOrderAppointmentNotification transaction from the Service Orders B2B Procedure. Ref. [3].

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Trigger	Service Provider must send the Notification once they have accepted a New Connection Service Order Request and scheduled the work with the customer.
Pre-conditions	Receipt of a New Connection ase:ServiceOrderRequest.
Post-conditions	The Retailer is aware of the planned date for the completion of their New Connection ase:ServiceOrderRequest from the information contained in the ase:ServiceOrderResponse.
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-39: ServiceOrderAppointmentNotification Summary

The ase:ServiceOrderResponse transaction transfers the details of the New Connection appointment with the customer to the Retailer who requested the work (Ref. [3]).

4.3.2. ServiceOrderAppointmentNotification Transaction Data – SA & ACT

The Appointment Notification process is implemented using the ase:ServiceOrderResponse transaction.

The ServiceOrderResponse transaction diagram is provided in Figure 4-28: ase:ServiceOrderResponse type.

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The transaction data used for the Appointment Notification business process are listed in the table below:

The base XPath used for this transaction is "*/ase:aseXML/Transactions/Transaction/ServiceOrderResponse*".

Transaction:		ase:ServiceOrderResponse (Appointment Notification process)	
Received From:		DNSP	
Sent To:		Retailer	
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory / Optional**	**O/M/N**	**Definition & Usage**

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Transaction:		ase:ServiceOrderResponse (Appointment Notification process)	
Received From:		DNSP	
Sent To:		Retailer	
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory / Optional**	**O/M/N**	**Definition & Usage**
@responseType	O	M	Allowed value = "Appointment"
ServiceOrder/NMI	M[13]	O	NMI (as used by MSATS). ***Mandatory*** if NMI exists.
NMI@checksum	O	O	NMI Checksum (as used by MSATS).
ServiceOrder/Address	M[14]	O	Mandatory if the NMI is not provided in the Response.
ServiceOrder/ServiceOrderNumber	O	M	Retailer defined reference, used for reference and tracking. Format must exactly match that used in the ase:ServiceOrderRequest (including leading or trailing zeros).
ServiceOrder/ServiceProviderReference	O	O	Service Provider defined reference used for reference and tracking. This field is for information only and must not be used for Response validation. ***Mandatory*** if the Service Provider has their own reference number associated with the ServiceOrderRequest
AppointmentDetail/Reference	O	M	Appointment reference. Applicable in SA and ACT.
AppointmentDetail/Preferred/Date	C	M	Date component of scheduled date for New Connection.
AppointmentDetail/Preferred/Time	O	M	Time component of scheduled date for New Connection.

Table 4-40: ServiceOrderAppointmentNotification Data

[13] This element is mandatory if *ase:Address* not provided

[14] This element is mandatory if *ase:NMI* not provided

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XML Sample – Service Order Appointment Notification

(SA & ACT only)

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">
    <Header>
        <From>INTEGP</From>
        <To>AGLE</To>
        <MessageID>0F9E5ABE-3122-40A5-AE05-C47FFFC77777</MessageID>
        <MessageDate>2005-10-17T09:30:47+10:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>NEM</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="ABCDSOLD663005143f170111111" transactionDate="2005-10-
17T09:30:30.0+10:00">
            <ServiceOrderResponse version="r17" responseType="Appointment">
                <ServiceOrder>
                    <NMI>1234567890</NMI>
                    <ServiceOrderNumber>9798798797</ServiceOrderNumber>
                    <ServiceProviderReference>SR005684</ServiceProviderReference>
                </ServiceOrder>
                <AppointmentDetail>
                    <Reference>979879JGJH</Reference>
                    <Preferred>
                        <Date>2005-11-11</Date>
                        <Time>11:37:29.00+9:00</Time>
                    </Preferred>
                </AppointmentDetail>
            </ServiceOrderResponse>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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4.3.3. Service Order scenarios

4.3.3.1. Scenario 1: Service Order Cancellation

Step 1: ServiceOrderRequest (@actionType = 'New', WorkType = 'Re-energisation')

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">
    <Header>
        <From>Origin</From>
        <To>EA</To>
        <MessageID>Origin 2156</MessageID>
        <MessageDate>2005-02-18T10:30:00+10:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>NEM</Market>
    </Header>
    <Transactions>
        <Transaction transactionDate="2005-02-18T10:25:00+10:00" transactionID="Txn150">
            <ServiceOrderRequest actionType="New" version="r17">
                <ServiceOrder>
                    <NMI checksum="9">1234567890</NMI>
                    <ServiceOrderType xsi:type="ase:ElectricityServiceOrderType" version="r17">
```

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```
                    <WorkType>Re-energisation</WorkType>
                </ServiceOrderType>
                <ServiceOrderNumber>SO1256</ServiceOrderNumber>
            </ServiceOrder>
            <ServicePoint>
                <AccessDetails>Customer Reports No Access Requirements</AccessDetails>
            </ServicePoint>
            <AppointmentDetail>
                <ScheduledDate>2005-02-21</ScheduledDate>
            </AppointmentDetail>
            <RequestData xsi:type="ase:ElectricityServiceOrderDetails" version="r17">
                <CustomerConsultationRequired>false</CustomerConsultationRequired>
                <ServiceTime>Business Hours</ServiceTime>
            </RequestData>
        </ServiceOrderRequest>
    </Transaction>
</Transactions>
</ase:aseXML>
```

Step 2: ServiceOrderRequest (@actionType = 'Cancel', WorkType = 'Re-energisation')

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">
    <Header>
        <From>Origin</From>
        <To>EA</To>
        <MessageID>Origin 2256</MessageID>
        <MessageDate>2005-02-19T11:50:00+10:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>NEM</Market>
    </Header>
    <Transactions>
        <Transaction transactionDate="2005-02-19T11:45:00+10:00" transactionID="Txn350">
            <ServiceOrderRequest actionType="Cancel" version="r17">
                <ServiceOrder>
                    <NMI checksum="9">1234567890</NMI>
                    <ServiceOrderType xsi:type="ase:ElectricityServiceOrderType" version="r17">
                        <WorkType>Re-energisation</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>SO1256</ServiceOrderNumber>
                </ServiceOrder>
            </ServiceOrderRequest>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Step 3: ServiceOrderResponse (@responseType = 'Closure', WorkType = 'Re-energisation')

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">
    <Header>
        <From>EA</From>
        <To>Origin</To>
        <MessageID>EA 1098</MessageID>
        <MessageDate>2005-02-20T16:45:00+10:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
```

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```
            <Priority>Medium</Priority>
            <Market>NEM</Market>
        </Header>
        <Transactions>
            <Transaction transactionDate="2005-02-20T16:40:00+10:00" initiatingTransactionID="Txn150"
transactionID="Txn20150">
                <ServiceOrderResponse version="r17" responseType="Closure">
                    <ServiceOrder>
                        <NMI checksum="9">1234567890</NMI>
                        <ServiceOrderNumber>SO1256</ServiceOrderNumber>
                    </ServiceOrder>
                    <NotificationData xsi:type="ase:ElectricityServiceOrderNotificationData" version="r17">
                        <ServiceOrderStatus>Not Completed</ServiceOrderStatus>
                        <ResponseCode>Retailer Cancellation</ResponseCode>
                        <ActualDateTime>2005-02-20T13:40:00+10:00</ActualDateTime>
                        <Product>
                            <Code>No Charge</Code>
                        </Product>
                    </NotificationData>
                </ServiceOrderResponse>
            </Transaction>
        </Transactions>
</ase:aseXML>
```

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4.4. Customer and Site Details Notification

4.4.1. Overview

The Customer and Site Details Notification Process covers a range of situations in which information about customers, their site access details, and site address details is communicated between Retailers and DNSPs. These situations include:

- The provision of regular updates of customer and site details from the Retailer to the DNSP.
- Reconciliation of customer details between Retailers and DNSPs.
- Requests by the DNSP to the Retailer for customer details.

The Retailer sending any of the Customer and Site Details Notification transactions must be the Current FRMP. The Participant sending an ase:CustomerDetailsRequest must be the DNSP.

There are five distinct business processes associated with this Customer and Site Details Notification process. These are implemented through four different aseXML transactions. The following table shows the Customer and Site Details group of business documents and corresponding aseXML transactions.

Business Document	Transaction Group	Corresponding aseXML Transaction	Business Process
CustomerDetailsRequest	CUST	ase:CustomerDetailsRequest	Request for a Customer Details
CustomerDetailsNotification	CUST	ase:CustomerDetailsNotification	Updated customer details.
CustomerDetailsReconciliation	CUST	ase:CustomerDetailsNotification	Copy of all customer details.
SiteAddressNotification	SITE	ase:AmendMeterRouteDetails/AmendSiteAddressDetails	Updated site address details notification.
SiteAccessNotification	SITE	ase:AmendMeterRouteDetails/AmendSiteAccessDetails	Updated site access details notification.

Table 4-41: List of Customer and Site Details Notification Transactions

These transactions have been grouped into the following for definition:

- Provision of Customer Details
- Request for Customer Details
- Provision of Site Address Details
- Provision of Site Access Details

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4.4.2. Provision of Customer Details

Retailers must send the ase:CustomerDetailsNotification whenever they become aware of changes to the information contained in the transaction. 'Changes' include new, amended, additional, or removal of one or more elements of data identified in the transaction. Ref. [2], 2.2.2.a.

The Retailer must provide the full set of information that they hold for the transaction. If the Retailer does not provide specific fields, the DNSP should assume that the Retailer does not have this information.
Note: An implication of this rule not explicitly stated in the B2B Procedure is that where a value has previously been provided (eg DPID for the previous address) and is not provided subsequently (new address and DPID not known), the DNSP should consider the previously provided value (the old DPID) as no longer being valid.

Retailers must only send updates where the Customer or Retailer initiated the changes. Retailers must not send updates based on information received from MSATS or the DNSP. This prevents the cyclical transmission of information between Retailers and DNSPs.

The Retailer must not send an ase:CustomerDetailsNotification if they lose a site. The new Retailer, on winning a site, must send an ase:CustomerDetailsNotification.

Participants can agree to conduct a reconciliation of customer details on a regular or as required basis. The reconciliation process must use the ase:CustomerDetailsNotification transaction with *ase:MovementType* equals "Reconciliation". Details regarding the timing and delivery mechanism for reconciliations are in Ref [2] 2.2.5.

The ase:CustomerDetailsNotification can be sent either as a standalone transaction or in response to an ase:CustomerDetailsRequest.

Retailers must only send a single daily Notification of each type (where relevant) covering all Changes made to the NMI's details that day. The Retailer must ensure that the most recent details are provided. Notifications sent by a Retailer in response to an ase:CustomerDetailsRequest may be sent individually or included with other Notifications.

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The details provided in a Notification are considered to be effective from the date and time of the *ase:LastModifiedDateTime* field of the Notification, except for Life Support Changes. Ref [2] 2.2.4.a. and b.

Note: This DateTime may be historical in certain situations. The Recipient should use the *@transactionDate* as the effective date for the change of details, not the value provided in this field. It is within a DNSP's sole discretion as to whether they decide to update their records on the basis of the information provided by Retailers.

Deleted: A change proposal (B2BT10191) has been submitted to clarify this aspect of the usage of this field.

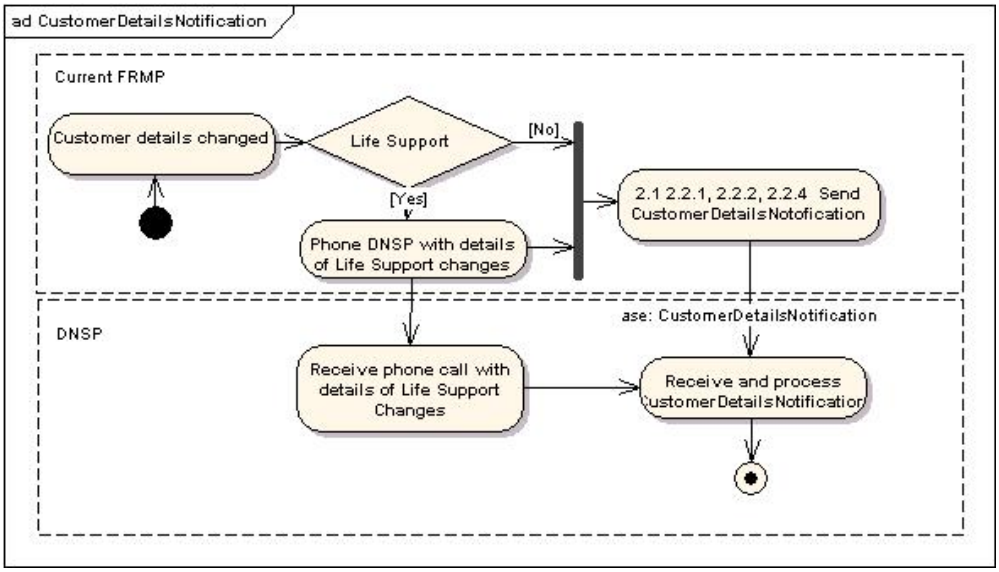

Figure 4-30: **Provision of Customer Details (standalone) Process Diagram**

Process Sequence

The Retailer sends the CustomerDetailsNotification whenever they become aware of Customer Detail Changes.

Where the site has a life support situation (refer *ase:SensitiveLoad* field), the Retailer must also immediately advise this to the DNSP by telephone. In WA, the Retailer must email a copy of the documentation verifying the life support requirements for the site to the DNSP.

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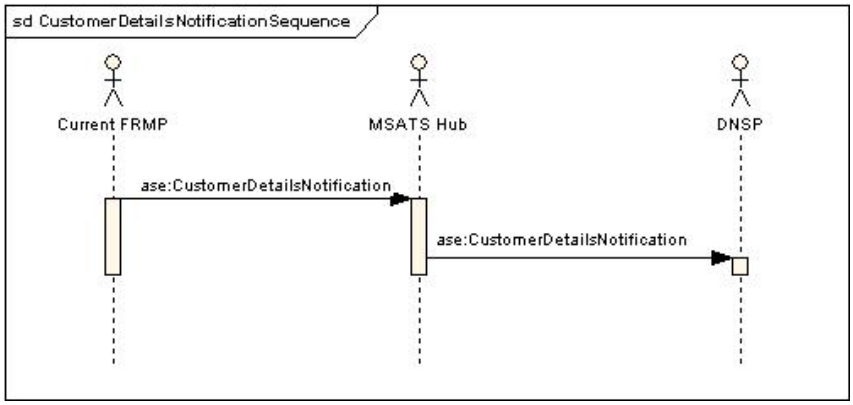
The diagram below shows the sequence of events for this transaction:



2420 **Figure 4-31: Customer Details Notification Sequence Diagram**

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	CustomerDetailsNotification	FRMP	WA B2B Gateway	C&SD 2.1, 2.2
2	CustomerDetailsNotification	WA B2B Gateway	DNSP	

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Table 4-42: Customer Details Notification Sequence

4.4.2.1. ase:CustomerDetailsNotification

Transaction Definition Table cross-reference	This interface realises the CustomerDetailsNotification transaction from the Customer and Site Details B2B Procedure. Ref [2].
Trigger	Retailers must send the Notification whenever they become aware of changes to the information contained in the Notification transaction. The Notification should be sent in following situations: • At completion of transfer, or • For a New Connection where the customer details are assigned to the new NMI, or • When the customer moves out or moves in, or • Upon receipt of routine updates provided by existing customers.

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Pre-conditions	New, amended, additional, or removal from the Retailer's system of one or more elements of the customer data identified in the Notification transaction.
Post-conditions	The DNSP is able to update their records on the basis of the information provided by the Retailer in the ase:CustomerDetailsNotification.
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-43: ase:CustomerDetailsNotification Summary

2425 The ase:CustomerDetailsNotification transaction transfers customer details information from the Retailer to the DNSP.

Transaction Data Elements

The XPath is
"/ase:aseXML/Transactions/Transaction/CustomerDetailsNotification/Customer"

Transaction:	ase:CustomerDetailsNotification		
Received From:	Retailer		
Sent To:	DNSP		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
NMI	M	M	
NMI@checksum	O	O	Implemented as an attribute of the NMI aseXML element.
CustomerDetail/PersonName	C	O	***Mandatory*** where *ase:CustomerDetail/BusinessName* not provided, except where the site is vacant.
CustomerDetail/BusinessName	C	O	***Mandatory*** where *ase:CustomerDetail/PersonName* not provided, except where the site is vacant.
CustomerDetail/ContactName	O	O	Appropriate contact for the purpose of contacting the customer for supply related issues. Must only occur once for a *CustomerDetail/BusinessName*. ***Not used*** where the site is vacant.

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Transaction:	ase:CustomerDetailsNotification
Received From:	Retailer
Sent To:	DNSP

aseXML Schema		B2B Procedure	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
CustomerDetail/PostalAddress	O	O	Postal address for the customer (for outage notification purposes). Unstructured address. The data provided must be the one considered by the Retailer to be the one most suitable for use as a postal address for contacting the customer. ***Mandatory*** in all situations, except where the site is vacant. An aseXML compliant unstructured address must be provided. Where there is a conflict, provide the outage address and not the self-read address.
CustomerDetail/PostalAddress/AustralianAddress/DeliveryPointIdentifier	O	O	***Mandatory*** if the sender has this information, except where the site is vacant.
CustomerDetail/PhoneNumber	O	O	The appropriate contact phone number for supply related matters. ***Mandatory*** if the sender has this information, except where the site is vacant.
SensitiveLoad	M	M	Indicates if there are economic, health or safety issues with loss of supply of the Connection Point. The value 'None' field must be provided where the site is vacant (Ref: [2] 2.2.4.d).
MovementType	M	M	If used for Customer Details Notification, allowed Codes are: • Site Vacant • Move In • Update If used for Customer Details Reconciliation, allowed Code is: • Reconciliation

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Transaction:	ase:CustomerDetailsNotification		
Received From:	Retailer		
Sent To:	DNSP		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
LastModifiedDateTime	M	M	Date and time that the record was updated in the Retailer's system. May be used by the recipient to ensure that this is the latest data. Note: This DateTime may be historical in certain situations. The Recipient should use the *@transactionDate* as the effective date for the change of details, not the value provided in this field.
ConcessionCard/@rebateType	O	O	***Mandatory*** in the ACT and only if Sender has this information. ***Not Used*** in where the site is vacant and in Jurisdictions other than ACT.
ConcessionCard/Number	C	O	***Mandatory*** in the ACT and only if Sender has this information. ***Not Used*** in where the site is vacant and in Jurisdictions other than ACT.
CustomerDetail/ConcessionCard/FromDate	O	O	***Mandatory*** in the ACT and only if Sender has this information. ***Not Used*** in where the site is vacant and in Jurisdictions other than ACT.
CustomerDetail/ConcessionCard/ToDate	O	O	***Mandatory*** in the ACT and only if ▪ Sender has this information, or ▪ if *ConcessionCard/@rebateType* = "Health Care Card". ***Not Used*** in where the site is vacant and in Jurisdictions other than ACT.

Deleted: A change proposal (B2BT10191) has been submitted to clarify this aspect of the usage of this field.

2430 **Table 4-44: *ase:CustomerDetailsNotification* Data**

The transaction is implemented as the ase:CustomerDetailsNotification transaction in aseXML. It uses the *ase:CustomerDetailsNotification* type, which is displayed in the following diagram:

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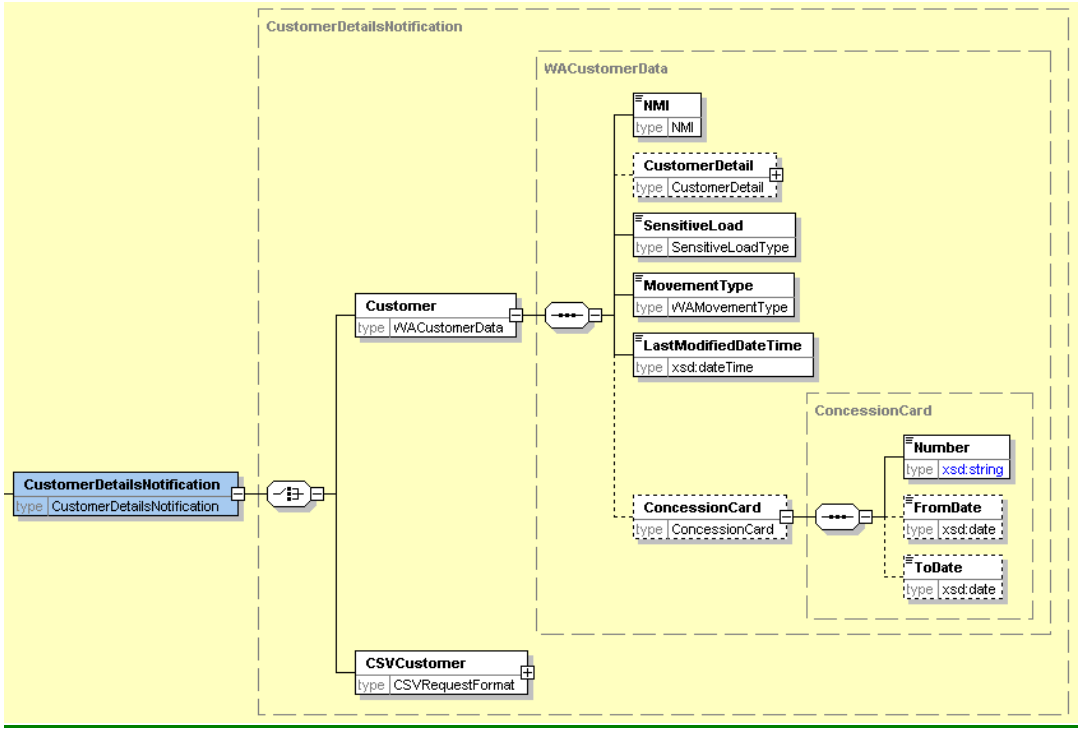

Figure 4-32: *ase:CustomerDetailsNotification* type

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XML Sample – Customer Details Notification – normal notification

Scenario:

- *ase:MovementType* = 'Update'; Transaction used as normal *ase:*CustomerDetailsNotification
- Unsolicited; *ase:initiatingTransactionID* not provided.
- *ase:SensitiveLoad* value is "Life Support".

Deleted: The sample is an ACT jurisdiction type (so includes the *ase:ConcessionCard* details).

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```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WPRTLMSG-11389659</MessageID>
        <MessageDate>2008-07-29T05:22:15+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WPRB-0000-12982741" transactionDate="2008-07-29T05:22:15+08:00">
            <CustomerDetailsNotification version="r17">
                <Customer>
                    <NMI checksum="1">8001471206</NMI>
                    <CustomerDetail>
                        <PersonName nameType="LGL">
                            <NameTitle>Mr</NameTitle>
                            <GivenName>Bob</GivenName>
                            <FamilyName>Jones</FamilyName>
                        </PersonName>
                        <PostalAddress>
                            <AustralianAddress>
                                <UnstructuredAddress>
                                    <AddressLine>5 Marine Ct</AddressLine>
                                </UnstructuredAddress>
                                <SuburbOrPlaceOrLocality>Usher</SuburbOrPlaceOrLocality>
                                <StateOrTerritory>WA</StateOrTerritory>
                                <PostCode>6230</PostCode>
                                <DeliveryPointIdentifier>12345678</DeliveryPointIdentifier>
                            </AustralianAddress>
                        </PostalAddress>
                        <PhoneNumber serviceType="Fixed Voice">
                            <Prefix>08</Prefix>
                            <Number>93266319</Number>
                        </PhoneNumber>
                        <PhoneNumber serviceType="Mobile Voice">
                            <Prefix>0406</Prefix>
                            <Number>999888</Number>
                        </PhoneNumber>
                    </CustomerDetail>
                    <SensitiveLoad>Life Support</SensitiveLoad>
                    <MovementType>Update</MovementType>
                    <LastModifiedDateTime>2008-07-29T05:39:19+08:00</LastModifiedDateTime>
                </Customer>
            </CustomerDetailsNotification>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Scenario:

- Contains *ase:MovementType* value of "Reconciliation" and *ase:SensitiveLoad* value of "Life Support"

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```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WPRTLMSG-11389659</MessageID>
        <MessageDate>2008-07-29T05:22:15+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WPRB-0000-12982741" transactionDate="2008-07-29T05:22:15+08:00">
            <CustomerDetailsNotification version="r17">
                <Customer>
                    <NMI checksum="1">8001471206</NMI>
                    <CustomerDetail>
                        <PersonName nameType="LGL">
                            <NameTitle>Mr</NameTitle>
                            <GivenName>Bob</GivenName>
                            <FamilyName>Jones</FamilyName>
                        </PersonName>
                        <PostalAddress>
                            <AustralianAddress>
                                <UnstructuredAddress>
                                    <AddressLine>5 Marine Ct</AddressLine>
                                </UnstructuredAddress>
                                <SuburbOrPlaceOrLocality>Usher</SuburbOrPlaceOrLocality>
                                <StateOrTerritory>WA</StateOrTerritory>
                                <PostCode>6230</PostCode>
                                <DeliveryPointIdentifier>12345678</DeliveryPointIdentifier>
                            </AustralianAddress>
                        </PostalAddress>
                        <PhoneNumber serviceType="Fixed Voice">
                            <Prefix>08</Prefix>
                            <Number>93266319</Number>
                        </PhoneNumber>
                        <PhoneNumber serviceType="Mobile Voice">
                            <Prefix>0406</Prefix>
                            <Number>999888</Number>
                        </PhoneNumber>
                    </CustomerDetail>
                    <SensitiveLoad>Life Support</SensitiveLoad>
                    <MovementType>Reconciliation</MovementType>
                    <LastModifiedDateTime>2008-07-29T05:39:19+08:00</LastModifiedDateTime>
                </Customer>
            </CustomerDetailsNotification>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

Deleted: <#>The sample is an ACT jurisdiction type (so includes the *ase:ConcessionCard* details)¶

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XML Sample – Customer Details Notification – vacant site

Where a site is vacant (for example, if a customer moves out), the Retailer must send an ase:CustomerDetailsNotification **only** containing *ase:NMI*, *ase:NMI@checksum, ase:LastModifiedDateTime*, *ase:MovementType* of "Site Vacant" and *ase:SensitiveLoad*.

.

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WPRTLMSG-11389659</MessageID>
        <MessageDate>2008-07-29T05:22:15+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WPRB-0000-12982741" transactionDate="2008-07-29T05:22:15+08:00">
            <CustomerDetailsNotification version="r17">
                <Customer>
                    <NMI checksum="1">8001471206</NMI>
                    <SensitiveLoad>None</SensitiveLoad>
                    <MovementType>Site Vacant</MovementType>
                    <LastModifiedDateTime>2008-07-29T05:39:19+08:00</LastModifiedDateTime>
                </Customer>
            </CustomerDetailsNotification>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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XML Sample – Customer Details Notification – provided on request

Scenario:

- *ase:MovementType* = 'Update'; Transaction provided as response to ase:CustomerDetailsRequest
- Provided on request; *ase:initiatingTransactionID* provided.
- *ase:SensitiveLoad* value is "Life Support".

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>WPRTLMSG-11389659</MessageID>
        <MessageDate>2008-07-29T05:22:15+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="RB-0000-12982741" transactionDate="2008-07-29T05:22:15+08:00"
initiatingTransactionID="WP1234567">
            <CustomerDetailsNotification version="r17">
                <Customer>
                    <NMI checksum="1">8001471206</NMI>
                    <CustomerDetail>
                        <PersonName nameType="LGL">
                            <NameTitle>Mr</NameTitle>
                            <GivenName>Bob</GivenName>
                            <FamilyName>Jones</FamilyName>
                        </PersonName>
                        <PostalAddress>
                            <AustralianAddress>
                                <UnstructuredAddress>
                                    <AddressLine>5 Marine Ct</AddressLine>
                                </UnstructuredAddress>
                                <SuburbOrPlaceOrLocality>Usher</SuburbOrPlaceOrLocality>
                                <StateOrTerritory>WA</StateOrTerritory>
                                <PostCode>6230</PostCode>
                                <DeliveryPointIdentifier>12345678</DeliveryPointIdentifier>
                            </AustralianAddress>
                        </PostalAddress>
                        <PhoneNumber serviceType="Fixed Voice">
                            <Prefix>08</Prefix>
                            <Number>93266319</Number>
                        </PhoneNumber>
                        <PhoneNumber serviceType="Mobile Voice">
                            <Prefix>0406</Prefix>
                            <Number>999888</Number>
                        </PhoneNumber>
                    </CustomerDetail>
                    <SensitiveLoad>Life Support</SensitiveLoad>
                    <MovementType>Update</MovementType>
                    <LastModifiedDateTime>2008-07-29T05:39:19+08:00</LastModifiedDateTime>
                </Customer>
            </CustomerDetailsNotification>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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4.4.3. Request for Customer Details

The Participant sending a ase:CustomerDetailsRequest must be the DNSP.

The DNSP may request a Retailer to provide an update of the customer details for a NMI. The DNSP must only send an ase:CustomerDetailsRequest when they believe the information has not been previously provided by the Retailer in a Notification transaction. The DNSP must not use this transaction to obtain mass updates of information. If a mass update of information is required, the Reconciliation Process must be used. Ref: [2] 2.2.3)

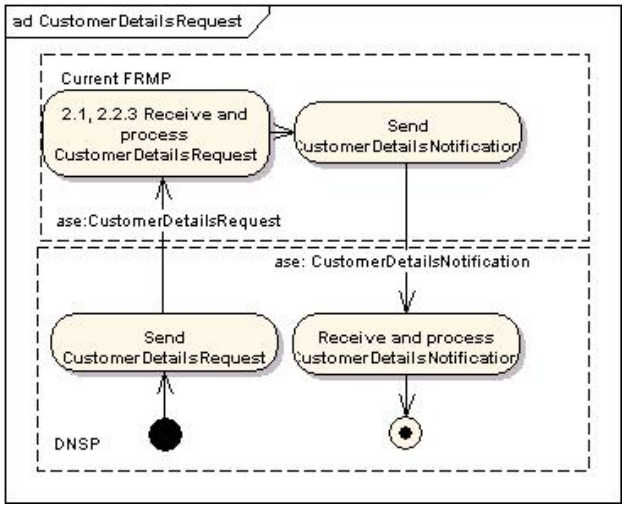

Figure 4-33: Request Customer Details Process Diagram

Process Sequence

Upon becoming aware of a customer change at a site and having not received an update of the customer details via the normal Customer Details Notification process, the DNSP may choose to request an update of the customer details from the Retailer. The Retailer must provide an ase:CustomerDetailsNotification in response to a valid ase:CustomerDetailsRequest.

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The diagram below shows the sequence of events for this transaction:

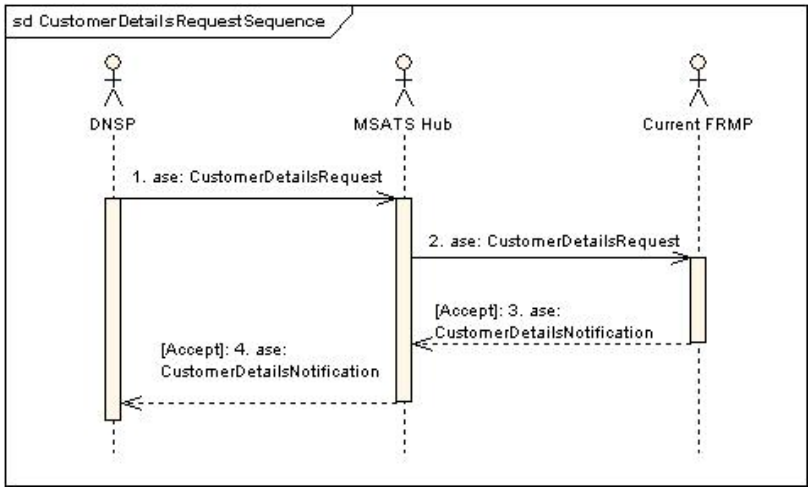

Figure 4-34: Request Customer Details Sequence Diagram

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:CustomerDetailsRequest	DNSP	WA B2B Gateway	Ref: [2] 2.1, 2.2.3
2	ase:CustomerDetailsRequest	WA B2B Gateway	Retailer	
3	ase:CustomerDetailsNotification	Retailer	WA B2B Gateway	Ref: [2] 2.1, 2.2.4
4	ase:CustomerDetailsNotification	WA B2B Gateway	DNSP	

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2675 **Table 4-45: Request Customer Details Sequence**

ase:CustomerDetailsRequest transaction

Transaction Definition Table cross-reference	This interface realises the CustomerDetailsRequest transaction from the WA B2B Procedure - Customer and Site Details
Trigger	DNSPs may send the Request whenever they become aware of a change to customer details.
Pre-conditions	DNSP identifies change of customer details that it believes has not been provided by the Retailer in an ase:CustomerDetailsNotification transaction.

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Post-conditions	The DNSP is able to update their records on the basis of the information provided by the Retailer in the ase:CustomerDetailsNotification
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-46: ase:CustomerDetailsRequest Summary

The ase:CustomerDetailsRequest transaction seeks an update of customer details for a NMI.

Transaction Data Elements

The XPath is *"/ase:aseXML/Transactions/CustomerDetailsRequest/"*

Transaction:	ase:CustomerDetailsRequest		
Received From:	DNSP		
Sent To:	FRMP		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Usage**
NMI	M	M	
NMI@checksum	O	O	Implemented as an attribute of the NMI aseXML element.
Reason	M	M	Reason for Request.
Comments/CommentLine	C	O	Any additional information the DNSP wishes to convey to the Retailer. ***Mandatory*** when Reason is 'Other'.

Table 4-47: *ase:CustomerDetailsRequest* Data

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The transaction is implemented as the ase:CustomerDetailsRequest transaction in aseXML. The transaction utilizes the *ase:CustomerDetailsRequest* type, which is displayed in the following diagram:

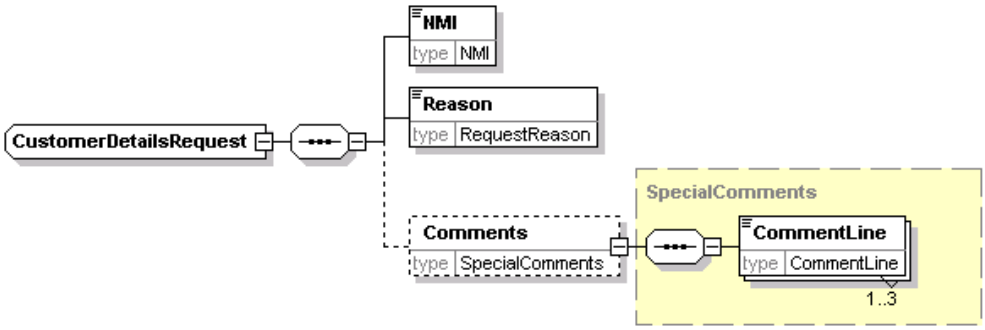

Figure 4-35 *ase:CustomerDetailsRequest* type

XML Sample – Customer Details Request

Scenario:

In the sample, the Service Provider has given a non-standard Reason of “Other”. Comments (Mandatory when the *ase:Reason* is “Other”) have been included.

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Western Power Networks">WPNTWRKS</From>
        <To description="Synergy Energy">WPRTL</To>
        <MessageID>WPMSG-11389659</MessageID>
        <MessageDate>2008-07-29T05:22:15+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WP12982741" transactionDate="2008-07-29T05:22:15+08:00">
            <CustomerDetailsRequest version="r17">
                <NMI checksum="7">1234567890</NMI>
                <Reason>Other</Reason>
                <Comments>
                    <CommentLine>Consumption on 'vacant' premise</CommentLine>
                </Comments>
            </CustomerDetailsRequest>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Scenario:

In the sample, the Service Provider believes the customer details have changed and the Retailer has not provided a Notification of the Changes, so the *ase:Reason* has a value of "Missing Customer Details".

Comments (optional for the Reason supplied) have been included.

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Western Power Networks">WPNTWRKS</From>
        <To description="Synergy Energy">WPRTL</To>
        <MessageID>WPMSG-11389659</MessageID>
        <MessageDate>2008-07-29T05:22:15+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="WP12982741" transactionDate="2008-07-29T05:22:15+08:00">
            <CustomerDetailsRequest version="r17">
                <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>
```

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Samples for ase:CustomerDetailsNotification have been provided in 4.4.2.

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4.4.4. Provision of Site Address Details

Retailers must send the ase:AmendMeterRouteDetails/AmendSiteAddressDetails transaction whenever they become aware of changes to the information contained in the transaction. 'Changes' includes new, amended, additional, or removal from the Retailer's system of one or more elements of data identified in the transaction.

The Retailer must provide the full set of information that they hold for the transaction. If the Retailer does not provide specific fields, the DNSP should assume that the Retailer does not have this information.

Retailers must only send updates where the Customer or Retailer initiated the changes. Retailers must not send updates based on information received from MSATS or the DNSP. This prevents the cyclical transmission of information between Retailers and DNSPs.

The details provided in a Notification are considered to be effective from the date and time of the *ase:LastModifiedDateTime* field of the Notification.
Note: This DateTime may be historical in certain situations. The Recipient should use the *@transactionDate* as the effective date for the change of details, not the value provided in this field.

Deleted: A change proposal **(B2BT10191)** has been submitted to clarify this aspect of the usage of this field is proposed.

The DNSP may choose to update their records on the basis of the information provided by the Retailer.

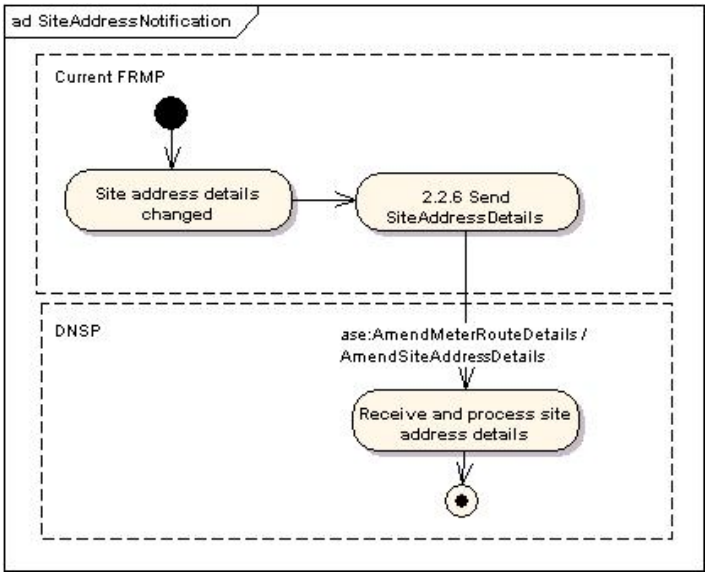

Figure 4-36: Provision of Site Address Details Process Diagram

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Process Sequence

The Retailer updates the site address details in their system then sends the updated address details to the DNSP using an ase:AmendMeterRouteDetails/AmendSiteAddressDetails. The diagram below shows the sequence of events for this transaction:

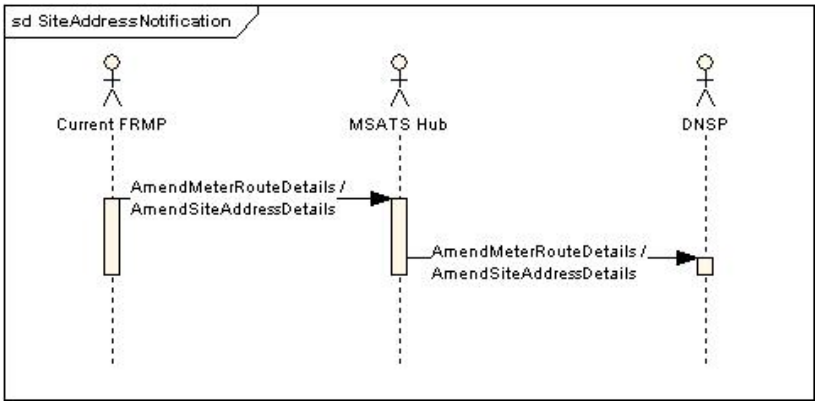

Figure 4-37: Site Address Details Notification Sequence Diagram

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:AmendMeterRouteDetails/ AmendSiteAddressDetails	FRMP	WA B2B Gateway	Ref: [2] 2.1, 2.2.1, 2.2.2.
2	ase:AmendMeterRouteDetails/ AmendSiteAddressDetails	WA B2B Gateway	DNSP	

Table 4-48: Site Address Details Notification Sequence

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ase:AmendMeterRouteDetails/AmendSiteAddressDetails

Transaction Definition Table cross-reference	This interface realises the Site Address Notification transaction from the Customer and Site Details B2B Procedures.
Trigger	Retailers must send the Notification whenever they become aware of changes to the information contained in the Notification transaction.
Pre-conditions	New, amended, additional, or removal from the Retailer's system of one or more elements of the address data identified in the Notification transaction.
Post-conditions	The DNSP is able to update their records on the basis of the information provided by the Retailer in the ase:AmendMeterRouteDetails/AmendSiteAddressDetails.
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-49: ase:AmendMeterRouteDetails/AmendSiteAddressDetails Summary

The ase:AmendMeterRouteDetails/AmendSiteAddressDetails transaction transfers the site address details information from the Retailer to the DNSP.

Transaction Data Element

The XPath is
"/ase:aseXML/Transactions/AmendMeterRouteDetails/AmendSiteAddressDetails /"

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Transaction:	ase:AmendMeterRouteDetails/AmendSiteAddressDetails		
Received From:	Retailer		
Sent To:	DNSP		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
NMI	M	M	
NMI@checksum	O	O	Implemented as an attribute of the NMI aseXML element.
Address	M	M	Address of the Site.
LastModifiedDateTime	M	M	Date and time that the record was updated in the Retailer's system. May be used by the recipient to ensure that this is the latest data. Note: This DateTime may be historical in certain situations. The Recipient should use the *@transactionDate* as the effective date for the change of details, not the value provided in this field.
CustomerType	M	M	Although mandatory, this attribute is not used in WA. Populate with any one of the allowed values, namely: - Industrial - Commercial - Domestic - Farm - Lighting

Deleted: A change proposal (B2BT10191) has been submitted to clarify this aspect of the usage of this field..

Table 4-50: ase:AmendMeterRouteDetails/AmendSiteAddressDetails Data

The transaction is implemented as the ase:AmendMeterRouteDetails/AmendSiteAddressDetails transaction in aseXML. It utilizes the type *ase:WASiteAddressDetails*, which is displayed in the following diagram:

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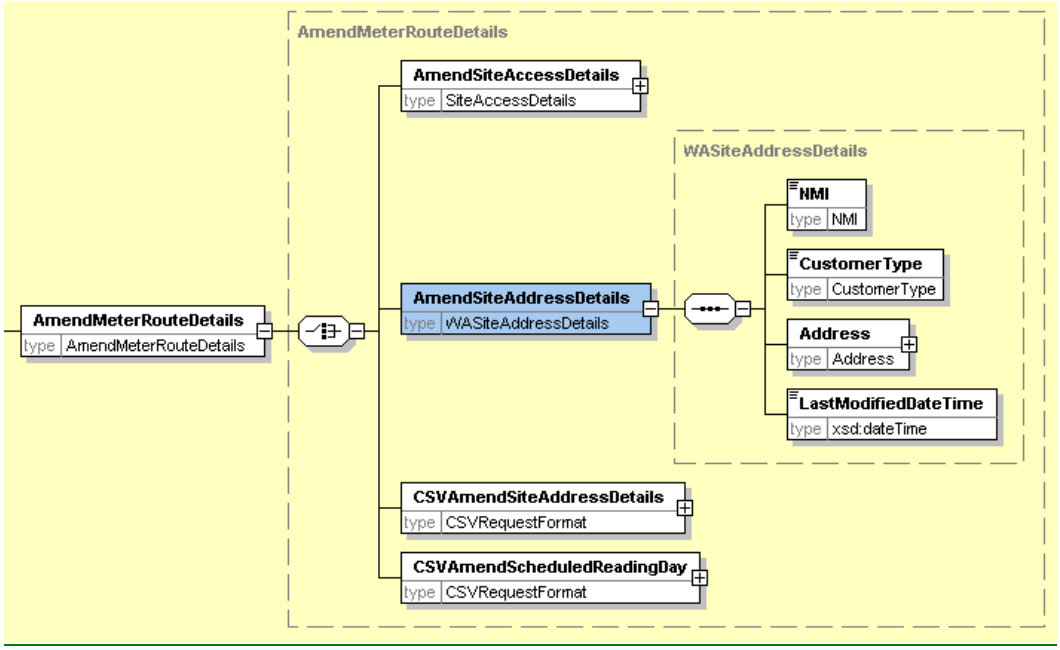

Figure 4-38: *ase:AmendMeterRouteDetails/AmendSiteAddressDetails* type

The ase:AmendMeterRouteDetails transaction is used for both AmendSiteAccessDetails and AmendSiteAddressDetails. The transaction allows a choice between the two.

In the following example, the transaction is used for the ase:AmendSiteAddressDetails and the table above describes the related data.

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XML Sample – Site Address Notification

Scenario:

- Contains a valid Structured address and an *ase:DeliveryPointIdentifier* (DPID).

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy Energy">WPRTL</From>
        <To description="Western PowerNetworks">WPNTWRKS</To>
        <MessageID>WPRTLMSG-11406300</MessageID>
        <MessageDate>2008-07-29T16:55:34+08:00</MessageDate>
        <TransactionGroup>CUST</TransactionGroup>
        <Priority>Low</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="RB-0000-12999184" transactionDate="2008-07-29T16:55:34+08:00">
            <AmendMeterRouteDetails version="r17">
                <AmendSiteAddressDetails xsi:type="ase:WASiteAddressDetails">
                    <NMI checksum="3">8001659886</NMI>
                    <CustomerType>Commercial</CustomerType>
                    <Address>
                        <AustralianAddress>
                            <StructuredAddress>
                                <House>
                                    <HouseNumber>999</HouseNumber>
                                </House>
                                <Lot>
                                    <LotNumber>55</LotNumber>
                                </Lot>
                                <Street>
                                    <StreetName>Rudall</StreetName>
                                    <StreetType>RD</StreetType>
                                </Street>
                            </StructuredAddress>
                            <SuburbOrPlaceOrLocality>Mount Hardey</SuburbOrPlaceOrLocality>
                            <StateOrTerritory>WA</StateOrTerritory>
                            <PostCode>6302</PostCode>
                            <DeliveryPointIdentifier>12345678</DeliveryPointIdentifier>
                        </AustralianAddress>
                    </Address>
                    <LastModifiedDateTime>2008-07-29T00:00:00+08:00</LastModifiedDateTime>
                </AmendSiteAddressDetails>
            </AmendMeterRouteDetails>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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4.4.5. Provision of Site Access Details

Retailers must send the ase:AmendMeterRouteDetails/AmendSiteAccessDetails whenever they become aware of changes to the information contained in the transaction. 'Changes' includes new, amended, additional, or removal from the Retailer's system of one or more elements of data identified in the transaction.

The Retailer must provide the full set of information that they hold for the transaction.

Retailers must only send updates where the Customer or Retailer initiated the changes. Retailers must not send updates based on information received from MSATS or the DNSP. This prevents the cyclical transmission of information between Retailers and DNSPs.

The details provided in a Notification are considered to be effective from the date and time of the *ase:LastModifiedDateTime* field of the Notification.
Note: This DateTime may be historical in certain situations. The Recipient should use the *@transactionDate* as the effective date for the change of details, not the value provided in this field.

Deleted: A change proposal **(B2BT10191)** has been submitted to clarify this aspect of the usage of this field..

The DNSP may choose to update their records on the basis of the information provided by the Retailer.

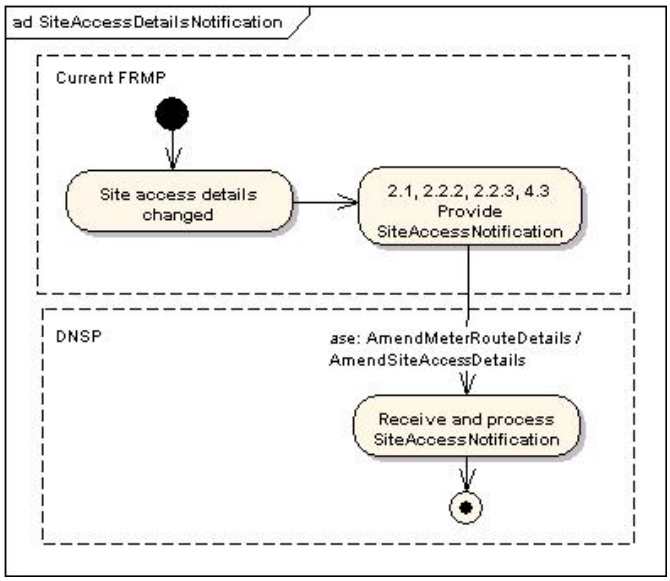

Figure 4-39: Provision of Site Access Details Process Diagram

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Process Sequence

The diagram below shows the sequence of events for this transaction:

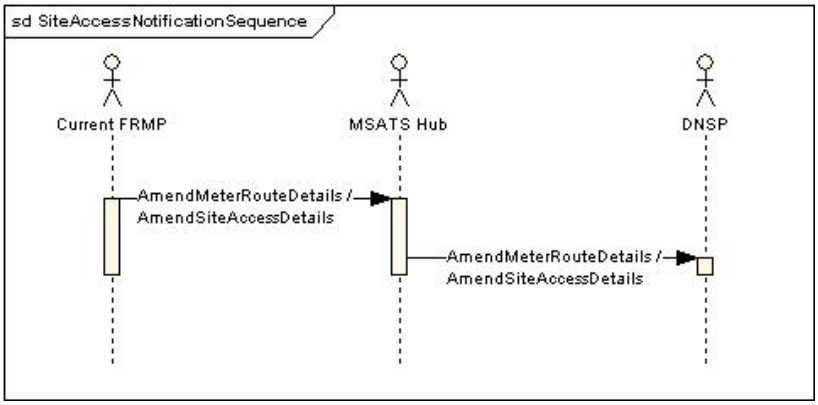

Figure 4-40: Site Access Details Notification Sequence Diagram

ID	aseXML Transaction	From Object	To Object	B2B procedure Ref
1	ase:AmendMeterRouteDetails/ AmendSiteAccessDetails	FRMP	WA B2B Gateway	Ref: [2] 2.1, 2.2.1, 2.2.2.
2	ase:AmendMeterRouteDetails/ AmendSiteAccessDetails	WA B2B Gateway	DNSP	

Table 4-51: Site Access Details Notification Sequence

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4.4.5.1. ase:AmendMeterRouteDetails/AmendSiteAccessDetails

Transaction Definition Table cross-reference	This interface realises the SiteAccessNotification transaction from the WA B2B Procedures: Customer and Site Details Notification Process
Trigger	Retailers must send the Notification whenever they become aware of changes to the information contained in the Notification transaction.
Pre-conditions	New, amended, additional, or removal from the Retailer's system of one or more elements of the customer data identified in the Notification transaction.
Post-conditions	The DNSP is able to update their records on the basis of the information provided by the Retailer in the ase:AmendMeterRouteDetails/AmendSiteAccessDetails.
Transaction acknowledgment specific event codes	Refer to Appendix C.

Table 4-52: ase:AmendMeterRouteDetails/AmendSiteAccessDetails Summary

The ase:AmendMeterRouteDetails/AmendSiteAccessDetails transaction transfers the site access details information from the Retailer to the DNSP. Ref: [2] 2.1, 2.2.6.

Transaction Data Elements

The XPath is *"/ase:aseXML/Transactions/ AmendMeterRouteDetails/AmendSiteAccessDetails /"*

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Transaction:	ase:AmendMeterRouteDetails/AmendSiteAccessDetails		
Received From:	Retailer		
Sent To:	DNSP		
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
NMI	O	M	
NMI@checksum	O	O	Implemented as an attribute of the NMI aseXML element.
AccessDetails	M	M	If the customer has supplied any special access details, the Retailer must include these. Any access requirements should be fully described, without using abbreviations. Standard values ”Customer reports no access requirements”, or ”<Description of access requirement>”
Hazard/Description	M	M	List of hazards associated with the Connection Point. This field may contain multiple hazards in the one field.
LastModifiedDateTime	M	M	Date and time that the record was updated in the retailer’s system. May be used by the recipient to ensure that this is the latest data. Note: This DateTime may be historical in certain situations. The Recipient should use the *@transactionDate* as the effective date for the change of details, not the value provided in this field.

Deleted: This field repeats to allow the reporting of multiple hazards.

Deleted: A change proposal (B2BT10191) has been submitted to clarify this aspect of the usage of this field is proposed.

2890 **Table 4-53: ase:AmendMeterRouteDetails/AmendSiteAccessDetails Data**

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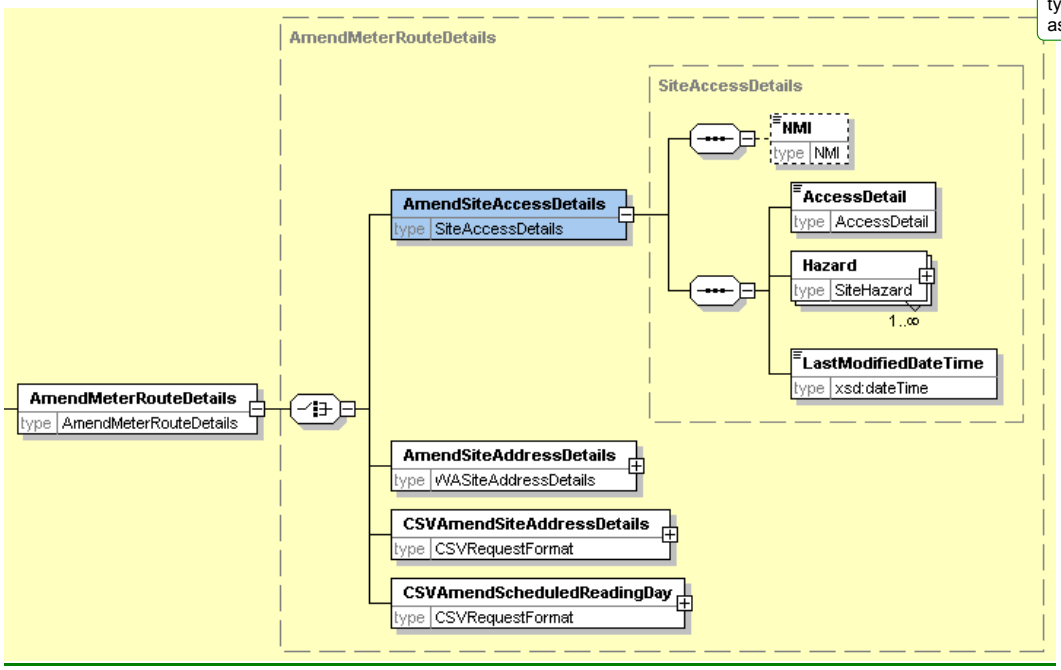
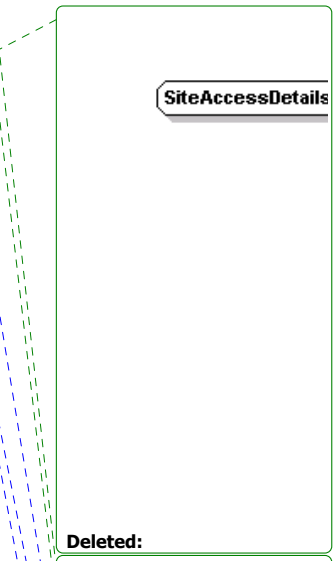
The transaction is implemented as the ase:AmendMeterRouteDetails/AmendSiteAccessDetails transaction in aseXML. It utilizes the type ase:SiteAccessDetails, which is displayed in the following diagram.

Deleted: implemented as the type with the same name in aseXML.:



2895 **Figure 4-41: *ase:AmendMeterRouteDetails/AmendSiteAccessDetails* type**

ase:AmendSiteAccessDetails element implements *ase:SiteAccessDetails* type which is displayed in the following schema diagram:



XML Sample – Site Access Details Notification

Scenario:
ase:AccessDetails and the *ase:Hazard/Description* are populated with the standard (not enumerated) values of “Customer reports no access requirements” and “Difficult Customer” respectively.

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17:WA:r2.00" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17:WA:r2.00 ..\waexml\aseXML_r17_WA_r2.00.xsd">
    <Header>
        <From description="Synergy">WPRTL</From>
        <To description="Western Power Networks">WPNTWRKS</To>
        <MessageID>20080729065656121</MessageID>
        <MessageDate>2008-07-29T06:56:56+08:00</MessageDate>
        <TransactionGroup>SITE</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>WAELEC</Market>
    </Header>
    <Transactions>
        <Transaction transactionID="SYN20080729065656121" transactionDate="2008-07-29T06:56:56+08:00">
            <AmendMeterRouteDetails version="r17">
                <AmendSiteAccessDetails version="r17" xsi:type="ase:SiteAccessDetails">
                    <NMI checksum="7">8001168896</NMI>
                    <AccessDetail>Customer reports no access requirements</AccessDetail>
                    <Hazard>
                        <Description>Difficult Customer</Description>
                    </Hazard>
                    <LastModifiedDateTime>2008-07-28T00:00:00.0Z</LastModifiedDateTime>
                </AmendSiteAccessDetails>
            </AmendMeterRouteDetails>
        </Transaction>
    </Transactions>
</ase:aseXML>
```

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Deleted: (xsi:type = ‘*ase:SiteAccessDetails*’)

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Deleted: **Figure 4-41 *ase:SiteAccessDetails* type**¶

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5. Common Data Types

Further details regarding the AS4590 can be found at
2935 http://www.bizdex.com.au/as4590.html.

5.1. PersonName

The components of the PersonName field have been used in multiple transactions: ase:ServiceOrderRequest, ase:ServiceOrderResponse and ase:CustomerDetailsNotification. They have the following XPaths per respective transaction:

2940

Transaction	aseXML path for PersonName
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ContactDetail/PersonName"*
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/CustomerDetail/ PersonName"*
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/RequestData/License/Licensee"*
ase:ServiceOrderResponse	*"/ase:aseXML/Transactions/Transaction/ServiceOrderResponse/ContactDetail/PersonName"*
ase:CustomerDetailsNotification	*"/ase:aseXML/Transactions/Transaction/CustomerDetailsNotification/Customer/CustomerDetail/PersonName"*
ase:CustomerDetailsNotification	*"/ase:aseXML/Transactions/Transaction/CustomerDetailsNotification/Customer/CustomerDetail/ContactName"*

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Table 5-1: ase:PersonName XPaths

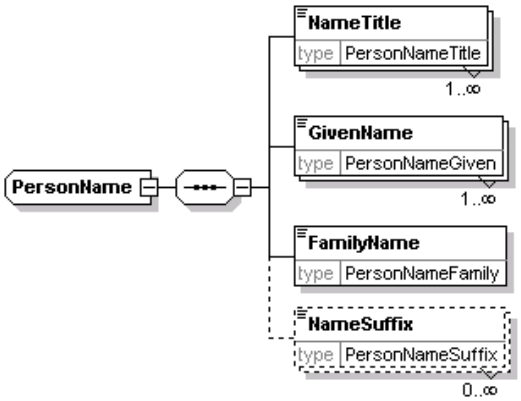

Figure 5-1 *ase:PersonName* type

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ase:PersonName			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
PersonName/NameTitle	M	M	*Defines a person's title as per Australian Standard AS4590-1999*
PersonName/GivenName	M	M	Defines a person's given name as per Australian Standard AS4590-1999
PersonName/FamilyName	M	M	Defines a person's family name as per Australian Standard AS4590-1999
PersonName/NameSuffix	O	O	Defines a person's name suffix as per Australian Standard AS4590-1999
PersonName@nameType	O	M	Defines the types of people's names as per Australian Standard AS4590-1999. Implemented as an attribute of PersonName

Table 5-2 *ase:PersonName* data

5.2. Telephone

The components of the Telephone field have been used in multiple transactions: ase:ServiceOrderRequest, ase:ServiceOrderResponse and ase:CustomerDetailsNotification. They have the following XPaths per respective transaction:

Transaction	aseXML path for Telephone
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ContactDetail/PhoneNumber"*
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/CustomerDetail/PhoneNumber"*
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/RequestData/License/PhoneNumber"*
ase:ServiceOrderResponse	*"/ase:aseXML/Transactions/Transaction/ServiceOrderResponse/ContactDetail/ PhoneNumber"*
ase:CustomerDetailsNotification	*"/ase:aseXML/Transactions/Transaction/CustomerDetailsNotification/Customer/CustomerDetail/PhoneNumber"*

Table 5-3: *ase:PhoneNumber* XPaths

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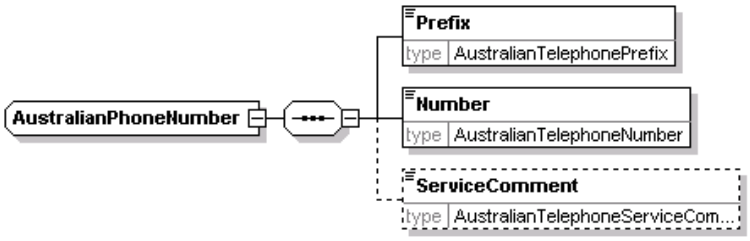

Figure 5-2 *ase:AustralianTelephoneNumber* type

ase:AustralianPhoneNumber			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Prefix	M	M	Defines Australian telephone number prefix as per Australian Standard AS4590-1999
Number	M	M	Defines Australian telephone number as per Australian Standard AS4590-1999
ServiceComment	O	O	Telephone service comment.
AustralianPhoneNumber@serviceType	M	M	Used to describe the type of telephone service. Implemented as an attribute of AustralianPhoneNumber.

Table 5-4: *ase:AustralianPhoneNumber* data

Examples of the use of the Prefix and Number elements:

Prefix	Number	Description
02	62123456	Telephone
0418	364879	Digital mobile
016	374468	Pager

Table 5-5: Phone number examples

More examples can be found in the Australian Standard AS4590.

Telephone service type can be: "Fixed Voice", "Mobile Voice", "Fax", "Pager".

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5.3. Address

The components of the Address field have been used in multiple transactions: ase:ServiceOrderRequest, ase:ServiceOrderResponse, ase:CustomerDetailsNotification and . ase:AmendMeterRouteDetails/SiteAddressDetails.They have the following XPaths per respective transaction:

Transaction	aseXML path for Address
ase:ServiceOrderRequest	*"/ase:aseXML/Transactions/Transaction/ServiceOrderRequest/ServiceOrder/Address"*
ase:AmendMeterRouteDetails/SiteAddressDetails	*"/ase:aseXML/Transactions/Transaction/AmendMeterRouteDetails/SiteAddressDetails/Address"*
ase:ServiceOrderResponse	*"/ase:aseXML/Transactions/Transaction/ServiceOrderResponse/ServiceOrder/Address"*
ase:CustomerDetailsNotification	*"/ase:aseXML/Transactions/Transaction/CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress"*

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Table 5-6: *ase:Address* XPaths

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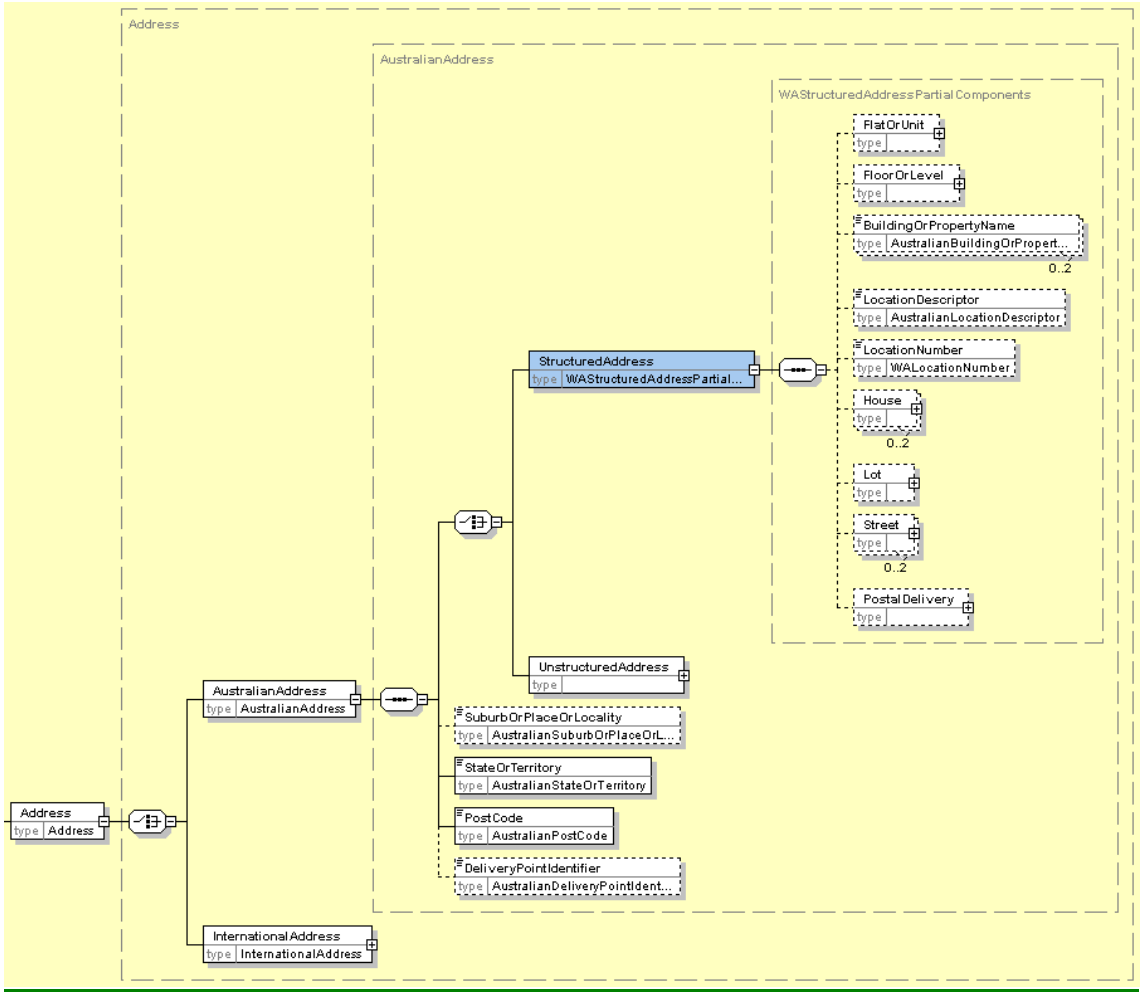

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Figure 5-3 *ase:Address* type

Even though the Address type allows use of an *AustralianAddress* and *InternationalAddress,* only *AustralianAddress* is used in the transactions.

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ase:Address			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
AustralianAddress	O	M	Implemented as *ase:AustralianAddress* defined in Table 5-8: ase:AustralianAddress data
InternationalAddress	O	N	***InternationalAddress is not used for B2B Electricity***

2975 **Table 5-7 *ase:Address* type**

ase:AustralianAddress			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
StructuredAddress	O	O	Implemented as *ase:WAStructuredAddressPartialComponents* defined in Table 5-9 ase:WAStructuredAddressPartialComponents data ***Mandatory*** if an unstructured address is not provided.
UnstructuredAddress/AddressLine	O	O	***Mandatory*** if a structured address is not provided.
SuburbOrPlaceOfLocality	O	M	Defines the suburb or locality as per Australian Standard AS4590-1999
StateOrTeritory	C	M	A code that defines the state as per Australian Standard AS4590-1999.
PostCode	C	M	Defines the postcode as per Australian Standard AS4590-1999
DeliveryPointIdentifier	O	O	Defines the delivery point identifier as per Australian Standard AS4590-1999

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Table 5-8: ase:AustralianAddress data

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ase:WAStructuredAddressPartialComponents			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
FlatOrUnit/FlatOrUnit Type	C	O	Code that defines the type of flat or unit as per Australian Standard AS4590-1999. ***Mandatory*** if known to Sender.
FlatOrUnit//FlatOrUnit Number	C	O	Defines the flat or unit number as per Australian Standard AS4590-1999. ***Mandatory*** if known to Sender.
FloorOrLevel/FloorOrLevelType	C	O	Code that defines the floor or level type as per Australian Standard AS4590-1999. ***Mandatory*** if known to Sender.
FloorOrLevel/FloorOrLevelNumber	O	O	Defines the floor or level number as per Australian Standard AS4590-1999. ***Mandatory*** if known to Sender.
BuildingOrPropertyName	O	O	Defines the building or property name as per Australian Standard AS4590-1999. Note: This field may occur up to two times. ***Mandatory*** if known to Sender.
LocationDescriptor	O	O	Defines the location descriptor as per Australian Standard AS4590-1999. This is a catch all field for non-standard address information. ***Mandatory*** if known to Sender.
LocationNumber	O	O	Defines the location number as used specifically in Western Australia. Note: The word "LOC" is not required in the field value. ***Mandatory*** if known to Sender.
House/HouseNumber	C	O	Defines the house number as per Australian Standard AS4590-1999. Note: The combination of House Number and House Number Suffix may occur up to two times. ***Mandatory*** if known to Sender.
House/HouseNumberSuffix	O	O	Defines the house number suffix as per Australian Standard AS4590-1999. Note: The combination of House Number and House Number Suffix may occur up to two times. ***Mandatory*** if known to Sender.
Lot/LotNumber	C	O	Defines the lot number as per Australian Standard AS4590-1999 ***Mandatory*** if known to Sender.

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ase:WAStructuredAddressPartialComponents			
aseXML Schema		**B2B Procedure**	
Data Element Path	**Mandatory/ Optional/**	**Mandatory/ Optional/ Not Used**	**Definition & Usage**
Street/StreetName	C	O	Defines the street name as per Australian Standard AS4590-1999. Note: The combination of Street Name, Street Type and Street Suffix may occur up to two times. ***Mandatory*** if known to Sender.
Street/StreetType	O	O	A code that defines the street type as allowed for use in MSATS. This refers the StreetType definition in the schema. ***Mandatory*** if known to Sender.
Street/StreetSuffix	O	O	A code that defines the street suffix as per Australian Standard AS4590-1999. ***Mandatory*** if known to Sender.
PostalDelivery/PostalDeliveryType	C	O	A code that defines the postal delivery type as per Australian Standard AS4590-1999. ***Mandatory*** if known to Sender.
PostalDelivery/PostalDeliveryNumber/PostalDeliveryNumberPrefix	O	O	Defines the postal delivery number prefix as per Australian Standard AS4590-1999 ***Mandatory*** if known to Sender.
PostalDelivery/PostalDeliveryNumber/PostalDeliveryNumberValue	O	O	Defines the postal delivery number value as per Australian Standard AS4590-1999 ***Mandatory*** if known to Sender.
PostalDelivery/PostalDeliveryNumber/PostalDeliveryNumberSuffix	O	O	Defines the postal delivery number suffix as per Australian Standard AS4590-1999 ***Mandatory*** if known to Sender.

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Table 5-9 ase:WAStructuredAddressPartialComponents data

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Appendix A. Data Dictionary

A.1. Transaction Data Elements

Each row of this table provides a unique combination of aseXML element / attribute and its local Xpath. As such, all B2B Procedure fields that map to the aseXML element or attribute are listed in the 3rd column.

aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
@actionType	*@actionType*	ActionType	A code used to indicate: • New = New ServiceOrderRequest • Cancel = Cancel a previously raised ServiceOrderRequest • Replace = Replacement Request for an incorrectly rejected ServiceOrderRequest.	xsd:string with enumerations	VARCHAR(7)	Enumerated list • New • Cancel • Replace
@checksum	*NMI@checksum*	NMIChecksum	NMI Checksum (as used by MSATS).	xsd:integer minIncl = 0; maxIncl = 9;	CHAR(1)	A numeric value between “0” and “9”
@context	*PartyIdentifier@context*			xsd:string		
@description	*PartyIdentifier@description*			xsd:string		

aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
@initiatingTransactionID	*Transaction@initiatingTransactionID*	RequestID	▪ Response document The *RequestID* of the initiating transaction. ***Not used*** when transaction sent as part of the normal notification process. ***Mandatory*** when the transaction is sent to the requesting Participant as a response to a request in category 1 above	xsd:string minLen = 1 maxLen = 36	VARCHAR (15)	
@nameType	*PersonName@nameType*	PersonNameType	Defines the types of people's names as per Australian Standard AS4590-1999. Implemented as an attribute of PersonName	xsd:string with enumerations	VARCHAR(3)	LGL,MDN,BTH,TRB,PRF,AKA,XFR,STG Default value of “LGL”
@rebateType	*ConcessionCard@rebateType*	RebateCode	Type of Rebate Only required in the ACT.	xsd:string with emumerations	VARCHAR(20)	Enumerated List ▪ Pension Card ▪ Health Care Card ▪ Health Benefit Card ▪ Veteran Affairs Card
@responseType	*ServiceOrderResponse@responseType*	ResponseType		xsd:string with emumerations	VARCHAR(15)	Enumerated List ▪ Closure ▪ Appointment

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
@serviceType	*PhoneNumber@serviceType*	ServiceType	Used to describe the type of telephone service. Implemented as an attribute of AustralianPhoneNumber.	xsd:string with enumerations: "Fixed Voice" "Mobile Voice", "Fax", "Modem", "Pager"	VARCHAR(12)	Fixed Voice Mobile Voice Fax Pager
@transactionID	*Transaction@transactionID*	RequestID	Request document ProvideMeterDataRequest or VerifyMeterDataRequest. (or ServiceOrderRequest) Participant defined reference, used for reference and tracking. Must be a new (unused) number, unique for the Participant/MDP combination.	xsd:string minLen = 1 maxLen = 36	VARCHAR (15)	
@workSubType	*WorkType@workSubType*	ServiceOrderSubType	Sub category of the *WorkType*. Each *WorkType* may have a set of allowed SubType codes. It should only be used where the type of work required is known and covered by the available codes.	xsd:string with enumerations	VARCHAR (40)	The allowed codes for each WorkType are: **New Connection:** ▪ Temporary ▪ Temporary In Permanent ▪ Permanent **Re-energisation:** ▪ After Disconnection For Non-Payment ▪

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
						De-energisation: ▪ Warning ▪ Remove Fuse ▪ Remove Fuse (Non-Payment) **Adds And Alts** ▪ Install Meter ▪ Remove Meter ▪ Exchange Meter **Special Read** ▪ Check Read ▪ Final Read **Meter Reconfiguration** ▪ Change Tariff **Meter Investigation** ▪ Tamper ▪ Inspect ▪ Meter Test

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<#>Pillar-Box Pit Or Pole-Top (Non-Payment)¶
Sticker

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<#>Install Controlled Load¶
<#>Move Meter¶

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<#>Change Timeswitch¶

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
AccessDetails	*ServicePoint/AccessDetails*	AccessDetails	Any special access details advised by the Customer to the Retailer.. Any access requirements should be fully described, without using abbreviations. Ref: [2]for more information. SiteAccessNotification Allowed values: ▪ ”Customer Reports No Access Requirements”, or ▪ <Description of access requirement> ServiceOrderRequest Allowed values: ▪ ”Customer Reports No Access Requirements”, or ▪ “Not Known To Retailer” for De-energisation for Non-Payment or other Requests not initiated by Customer, or ▪ <Description of access requirement>	xsd:string maxLen = 160	VARCHAR(160)	Standard values (not enumerated): ▪ ”Customer reports no access requirements”, ▪ “Not Known To Retailer” ▪ “Description of access requirement”
ActualDateTime	*ActualDateTime*	ActualDateAndTime	Actual date and time work was attempted or completed.	xsd:dateTime	DATETIME	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
AddressLine	*Address/AustralianAddress/UnstructuredAddress/Address*	UnstructuredAddress1, 2 and 3	Mandatory if a structured address is not provided.	xsd:string maxLen = 80 x 3	VARCHAR(80)	
AppointmentDetail/Reference	*AppointmentDetail/Reference*	AppointmentReference	Reference for an appointment agreed by the Retailer with the Customer and the Service Provider.	xsd:string minLen = 1 maxlen = 36	VARCHAR(15)	
AttendanceRequired	*License/AttendanceRequired*	REC-Attendance Required	Does Registered Electrical Contractor need to be present when the Service Provider performs the Field Work? True = Yes = REC to be present. False = No = No need to have REC present.	true/false	YESNO	▪ True ▪ False
AustralianAddress	*ServiceOrder/Address/AustralianAddress,*	SiteAddress ServiceOrderAddress	Site/service point address in a structured format where available. For details of the Address structure, Ref: [4]. This field is Mandatory for New Connection ServiceOrderRequest if the NMI is not provided. This field is Mandatory if the NMI is not provided in the Response.		ADDRESS	AustralianAddress
AverageDailyLoad	*RequestData/AverageDailyLoad*	AverageDailyLoad	Estimated numerical load value in kWh.	xsd:integer	NUMERIC(10)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
BeginDate	*RequestPeriod/BeginDate*	StartReadDate	The first day of the period the Participant is requesting or querying MDFF Data or has data missing.	xsd:date	DATE	
BuildingOrPropertyName	*Address/AustralianAddress/StructuredAddress/ BuildingOrProperty*	BuildingOrPropertyName	Defines the building or property name as per Australian Standard AS4590-1999. Note: This field may occur up to two times.	xsd:string maxLen = 30 x 2	VARCHAR(30)	
BusinessName	*CustomerDetail/ BusinessName*	BusinessName	In aseXML BUSINESSNAME format (see Technical Guidelines for B2B Process Specifications)	xsd:string maxLen = 200	BUSINESSNAME VARCHAR(200)	
BusinessName	*License/BusinessName*	REC-BusinessName	Registered Electrical Contractor Business Name.	xsd:string maxLen = 200	BUSINESSNAME VARCHAR(200)	
Code	*Product/Code*	ProductCode1 ProductCode2 ProductCode3	Standard Codes: “No Charge” = used where there is no fee for the service provide. “Cost TBA” = Used where the Service Provider needs to do further investigation to determine what work was attempted or completed at the Site. “As Quoted” = Used where the	xsd:string maxLen= 10	VARCHAR(10)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
			parties have previously agreed the price for the work. At least one ProductCode must be provided in all jurisdictions. Up to three ProductCodes can be used per Response, that is, the field may be repeated 3 times. This field is the same as the NetworkRateCode in the NSW Network Billing specification and the ExcludedServicesCode in the Vic/SA Network Billing specification. The ProductCodes for each jurisdiction are published on various websites for each of jurisdiction. At the time of publication these were: The Victorian Product Codes are published in the Essential Services Commission website: http://www.esc.vic.gov.au/electricity210.html - see Schedule of Standard Service Charges and Miscellaneous Service Charges (effective 1 January 2002. The ACT, NSW, SA, WA codes are as published by each DNSP.			

aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
CommentLine	*SpecialInstructions/CommentLine*	SpecialInstructions	Any special instructions the Retailer wishes to convey to the Service Provider.	xsd:string maxLen = 80 x 3	VARCHAR(240)	
CommentLine	*SpecialNotes/CommentLine*	SpecialNotes	Any special notes related to the Request and fieldwork that the Service Provider wishes to make the Retailer aware of. This field is Mandatory if an *ExceptionCode* value of “Other”, “Service Provider Cancellation”, or “Documentation Not Provided” is provided, or a *ServiceOrderStatus* of “Partially Completed ” is used.	xsd:string maxLen = 80 x 3	VARCHAR(240)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
ConfirmedDe-energisation	*RequestData/ConfirmedDe-energisation*	ConfirmedDe-energisation	false = Default value. The normal business rules regarding De-energisation apply. true = Used only where the Retailer has confirmed with the Customer that the Customer details in the ServiceOrderRequest are accurate. The value of true can only be used by the Retailer where the earlier De-energisation Request was not performed by the Service Provider due to a Re-energisation Request from another Retailer.	true/false Default = false	YESNO	▪ False(Default value) ▪ True

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
Consumption	*Current/Consumption*	CurrentConsumption	Original consumption figure (in kWh) in the MDFF Data that is being queried. Must be provided if CurrentRead is populated.	xsd:decimal	NUMERIC(15,3)	
ContactDetail/PersonName	*ContactDetail/PersonName*	ContactName RetailerContactName ServiceProviderContactName	Contact name of customer or customer's agent, to be provided where Service Provider may need to contact customer/agent. Contact name of Service Provider, to be provided where Retailer may need to contact the Service Provider.	PersonName	PERSONNAME	In aseXML PERSONNAME format (see Technical Guidelines for B2B Process Specifications)
ContactName	*CustomerDetail/ContactName*	BusinessContactName	In aseXML PERSONNAME format (see Technical Guidelines for B2B Process Specifications)	PersonName	PERSONNAME	
CSVConsumptionData	*CSVConsumptionData*	CSVConsumptionData	Contains embedded data in CSV format for basic meters. This is the standard file format for basic meter data defined in a valid MDFF.	xsd:string	CSVDATA	
CSVIntervalData	*CSVIntervalData*	CSVIntervalData	Contains embedded data in CSV format for interval meters. This is the standard file format for interval meter data defined in a valid MDFF.	xsd:string	CSVDATA	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
CustomerConsultationRequired	*RequestData/CustomerConsultationRequired*	CustomerConsultationRequired	Allowed value: true. true = The Retailer requests the Service Provider consult with the Customer to make arrangements for the completion of the work requested. False= The Retailer does not request the Service Provider consult with the Customer to make arrangements for the completion of the work requested. Where true is used, the reason for the need to consult with the Customer must be provided in SpecialInstructions.	true/false	YESNO	True False
CustomerType	*ServiceOrderRequest/RequestData*	CustomerType	Code indicating Customer type.	xsd:string with enumerations	VARCHAR(11)	Industrial Commercial Domestic Farm Lighting

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
Date *Time*	*AppointmentDetail/Preferred/Date* *AppointmentDetail/Preferred/Time*	CustomersPreferredDate	Preferred date and time for the work to be undertaken as discussed between Retailer and the Customer. If no appointment time is specified, indicate this by using 00:00.	xsd:date xsd:time	DATE TIME	
DeliveryPointIdentifier	*Address/AustralianAddress/DeliveryPointIdentifier*	SiteAddressDPID DeliveryPointIdentifier	Defines the delivery point identifier as per Australian Standard AS4590-1999	xsd:nonNegativeInteger minIncl = 10000000 **maxIncl = 99999999**	NUMERIC(8)	In range: 10000000 - 99999999

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
Description	*Hazard/Description*	HazardDescription	SiteAccessNotification and ServiceOrderRequest Allowed values: ▪ Customer Reports No Hazard ▪ Dog ▪ Electric Fence ▪ Customer Caution ▪ Not Known To Retailer Any other hazards should be fully described, without using abbreviations.	xsd:string maxLen = 80	VARCHAR (80)	Standard values (not enumerated). One or more of the following standard values should be used, where applicable. ▪ Customer Reports No Hazard ▪ Dog ▪ Electric Fence ▪ Customer Caution ▪ Not Known To Retailer Any other hazards should be fully described, without using abbreviations.
EndDate	*RequestPeriod/EndDate*	EndReadDate	The last day of the period the Participant is requesting or querying MDFF Data querying or has data missing. If querying a single day's interval data or a single basic meter reading, this date is the same as the StartReadDate.	xsd:date	DATE	
FamilyName	*PersonName/FamilyNameMultiple.*	PersonNameFamily	Defines a person's family name as per Australian Standard AS4590-1999	xsd:string maxLen = 40	VARCHAR(40)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
FlatOrUnit Number	*Address/AustralianAddress/StructuredAddress/FletOrUnit/FlatOrUnitNumber*	FlatOrUnit Number	Defines the flat or unit number as per Australian Standard AS4590-1999.	xsd:string pattern: [\p{L}\p{N}\p{P}\s]{1,7}	VARCHAR(7)	
FlatOrUnit Type	*Address/AustralianAddress/StructuredAddress/FletOrUnit/FlatOrUnitType*	FlatOrUnit Type	Code that defines the type of flat or unit as per Australian Standard AS4590-1999. This field does not contain the following characters: ` Grave accent; ~ Tilde; $ Dollar sign; ^ Circumflex; & Ampersand; + Plus sign; = *Equals sign;* | Vertical line; < Less-than sign; > Greater-than sign; / Forward slash.	xsd:string with enumerations	VARCHAR(4)	Allowable codes include: APT, CTGE, DUP, FY, F, HSE, KSK, MSNT, MB, OFF, PTHS, RM, SHED, SHOP, SITE, SL, STU, SE, TNHS, U, VLLA, WARD, WE
FloorOrLevelNumber	*Address/AustralianAddress/StructuredAddress/FloorOrLevel/FloorOrLevelNumber*	FloorOrLevelNumber	Defines the floor or level number as per Australian Standard AS4590-1999. This field does not contain the following characters: ` Grave accent; ~ Tilde; $ Dollar sign; ^ Circumflex; & Ampersand; + Plus sign; = *Equals sign;* | Vertical line; < Less-than sign; > Greater-than sign; / Forward slash.	xsd:string [\p{L}\p{N}\p{P}\s]{1,5}	VARCHAR(5)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
FloorOrLevelType	*Address/AustralianAddress/StructuredAddress/FloorOrLevel/FloorOrLevelType*	FloorOrLevelType	Code that defines the floor or level type as per Australian Standard AS4590-1999.	xsd:string with enumerations	VARCHAR(2)	Allowable codes include: B, FL, G, LG, M, UG.
FormDocumentReference	*License/DocumentReference/FormReference*	DocumentReference (type of the form)	Reference to the forms associated with New Connections and Meter Adds and Alts used in each jurisdiction. Only used in Vic, SA and ACT. (Not used in NSW). This field should be the number on the form (if it is numbered), otherwise it must be the type of the form. Required field for *Supply Abolishment* in SA.	xsd:string maxlen = 30	VARCHAR(15)	In Victoria ▪ EWR ▪ NOMW In SA ▪ FORM A In ACT ▪ RFS
FormNumber	*License/DocumentReference/FormNumber*	DocumentReference (the number on the form)	Reference to the forms associated with New Connections and Meter Adds and Alts used in each jurisdiction. Only used in Vic, SA, WA and ACT. (Not used in NSW). This field should be the number on the form (if it is numbered), Required field for *Supply Abolishment* in SA.	xsd:string maxlen = 15	VARCHAR(15)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
From	*/ase:aseXML/Header/From*	RetailerID FRMP MDPID	Participant ID as published in MSATS. PartyIdentifier. Occurs in message header.	PartyIdentifier xsd:string	VARCHAR(10)	
FromDate	*ConcessionCard/FromDate*	FromDate	Effective date at which card is valid. Only required in the ACT	xsd:date	DATE	
GivenName	*PersonName/GivenName*	PersonNameGiven	Defines a person's given name as per Australian Standard AS4590-1999	xsd:string maxLen = 40	VARCHAR(40)	
HouseNumber	*Address/AustralianAddress/StructuredAddress/House/HouseNumber*	HouseNumber	Defines the house number as per Australian Standard AS4590-1999. Note: The combination of House Number and House Number Suffix may occur up to two times.	xsd:nonNegativeInteger maxIncl = 99999	NUMERIC(5)	In range: 0-99999
HouseNumberSuffix	*Address/AustralianAddress/StructuredAddress/House/HouseNumberSuffix*	HouseNumberSuffix	Defines the house number suffix as per Australian Standard AS4590-1999. Note: The combination of House Number and House Number Suffix may occur up to two times.	xsd:string pattern: [\p{L}\p{N}]{1}	VARCHAR(1)	This field may only contain alphanumeric characters.

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
InstallationType	*RequestData/InstallationType*	InstallationType	Code indicating the type of installation required	xsd:string	VARCHAR(30)	▪ Underground ▪ Overhead ▪ Underground To Overhead Mains ▪ Overhead To Underground Mains ▪ Transformer Overhead ▪ Transformer Ground Level
InstallationTypeCode	*NMIStandingData/MeterRegister/Meter/MeterInstallationTypeCode*	MeterInstallCode	Code indicating the type of installation at the meter.	xsd:string maxLen = 8	CHAR(8)	▪ BASIC ▪ MRIM ▪ COMMS1 ▪ COMMS2 ▪ COMMS3 ▪ COMMS4
InvestigationCode	*VerifyRequestData/InvestigationCode*	InvestigationCode		xsd:string with enumerations	VARCHAR (40)	Allowed values: ▪ Confirm Reading For Vacant Site ▪ Confirm Zero Consumption ▪ Incomplete Data ▪ Invalid MDFF Data ▪ Invalid Standing Data ▪ Missing

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
						Datastream ▪ Scheduled Reading Required ▪ Require Actual Reading or Substitute ▪ Require Final Substitute ▪ Require Latest Version ▪ Service Order Reading Required ▪ Verify High Reading ▪ Verify Low Reading ▪ Recipient Not Responsible For The NMI ▪ Other
InvestigationDescription	*VerifyRequestData/InvestigationDescription*	InvestigationDescription	Free text that must be used to assist the investigation. The Participant must clearly define the reading, the period and the description of the problem.	xsd:string maxLen = 80 x 3 - concatenate	VARCHAR(240)	
LastModifiedDateTime	*Customer/LastModifiedDateTime*	LastModifiedDateTime	Date and time that the record was updated in the Retailer's system.	xsd:dateTime	DATETIME	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
Licensee	*License/Licensee*	REC-Name	Registered Electrical Contractor name.	PersonName	PERSONNAME	
LicenseNumber	*License/LicenseNumber*	REC-ID	Registered Electrical Contractor ID/ licence number.	xsd:string maxLen = 20	VARCHAR(20)	
LocationNumber	*Address/AustralianAddress/StructuredAddress/ LocationNumber*	LocationNumber	Defines the location number as used specifically in Western Australia. Note: The word "LOC" is not required in the field value.	xsd:string pattern: [\p{L}\p{N}\p{P}\s]{1,6}	VARCHAR(6)	
LocationDescriptor	*Address/AustralianAddress/StructuredAddress/ LocationDescriptor*	LocationDescriptor	Defines the location descriptor as per Australian Standard AS4590-1999. This is a catch all field for non-standard address information. This field does not contain the following characters: ` Grave accent; ~ Tilde; $ Dollar sign; ^ Circumflex; & Ampersand; + Plus sign; = *Equals sign;* | Vertical line; < Less-than sign; > Greater-than sign; / Forward slash.	xsd:string pattern: [\p{L}\p{N}\p{P}\s]{1,30}	VARCHAR(30)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
LotNumber	*Address/AustralianAddress/StructuredAddress/ Lot/LotNumber*	LotNumber	Defines the lot number as per Australian Standard AS4590-1999. This field does not contain the following characters: ` Grave accent; ~ Tilde; $ Dollar sign; ^ Circumflex; & Ampersand; + Plus sign; = *Equals sign;* | Vertical line; < Less-than sign; > Greater-than sign; / Forward slash.	xsd:string pattern: [\p{L}\p{N}\p{P}\s]{1,6}	VARCHAR(6)	
MaximumDemand	*RequestData/MaximumDemand*	MaximumDemand	Maximum demand in kw of installation in accordance with Australian Standard AS3000 (calculated at 240 volts).	xsd:integer maxLen = 8	NUMERIC(4)	
MeteringType	*RequestData/MeteringType*	MeteringRequired	Code indicating new type of metering required for Basic Metered and MRIM Sites (Types 5 and 6) only: If “Other ” used, then further details must be provided as SpecialInstructions.	xsd:string with enumerations	VARCHAR(12)	Enumerated list ▪ Flat Rate ▪ Two Rate [not in the schema] ▪ Time Of Use ▪ CT Meter ▪ Other

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
MethodSent	*SafetyCertificate/MethodSent*	SafetyCertificateMethodSent	Code indicating how the safety certificate has been provided: ▪ "Faxed" = Faxed by Retailer to Service Provider ▪ "Email" = Emailed by Retailer to Service Provider ▪ "Online" = Available to Service Provider from an internet Site ▪ "OnSite" = Left on Site or already provided by Customer/Agent (eg. REC) Note that the safety certificate must be available to the Service Provider by the ScheduledDate.	xsd:string with enumerations	VARCHAR(6)	Allowed values: ▪ Faxed ▪ Email ▪ Online ▪ OnSite
MovementType	*Customer/MovementType*	MovementType	CustomerDetailsNotification Allowed Codes: ▪ Site Vacant ▪ Update ▪ Move in CustomerDetailsReconciliation Allowed Code: ▪ Reconciliation	xsd:string with enumerations	VARCHAR(14)	Enumerated List: ▪ Reconciliation ▪ Site Vacant ▪ Update ▪ Move in
NameSuffix	*PersonName/NameSuffix*	PersonNameSuffix	Defines a person's name suffix as per Australian Standard AS4590-1999	xsd:string maxLen = 12	VARCHAR(12)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
NameTitle	*PersonName/NameTitle*	PersonNameTitle	Defines a person's title as per Australian Standard AS4590-1999	xsd:string maxLen = 12	VARCHAR(12)	
NetworkTariffCode	*NMIStandingData/MeterRegister/Meter/RegisterConfiguration/Register/NetworkTariffCode*	ProposedTariff	The new network tariff required by the Retailer. The field can be repeated as necessary if multiple tariffs are required	xsd:string maxLen = 10	VARCHAR(10)	Allowed values are the code for the Network's published tariff assigned within MSATS at the meter register ID level and as gazetted by the Regulator.
NMI	*ServiceOrder/NMI*	NMI	NMI (as used by MSATS). This field is Mandatory for all Responses except Responses to Allocate NMI or New Connection Requests with a ServiceOrderStatus of "Not Completed". This field is Mandatory if the *ServiceOrderAddress* is not provided in the Request.	xsd:string maxLen = 10	CHAR(10)	
NMIConfiguration	*VerifyRequestData/NMIConfiguration*	NMIConfiguration	The *NMIConfiguration* provided in the MDFF Data being queried.	xsd:string maxLen = 2 multiple values	VARCHAR(240)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
Number	*ConcessionCard/Number*	PensionHealthCard Number	Nine numeric and one alpha unique identifier issued by Department Social Security or Department Veterans Affairs Only required in the ACT.	xsd:string maxLen = 10	VARCHAR(10)	
Number	*PhoneNumber/Number*	Number	Defines Australian telephone number as per Australian Standard AS4590-1999	xsd:string maxLen = 15	VARCHAR(15)	
OffPeakRequirements	*RequestData/OffPeakRequirements*	OffPeakRequirements	Details of any off-peak requirements, such as: Space heating, Climate Saver, Hot Water etc	xsd:string maxLen = 80 x 3	VARCHAR(240)	
ParentEmbeddedNetworkIdentifier	*NMIStandingData/MasterData/ParentEmbeddedNetworkIdentifier*	EmbeddedNetwork ParentName	Valid MSATS parent identifier.	xsd:string maxLen = 10	VARCHAR(10)	Valid MSATS parent identifier.
Party	*NMIStandingData/RoleAssignments/RoleAssignment/Party*	ParticipantID RP MDP MPB MPC	ProvideMeterDataRequest and MeterDataVerifyRequest Participant on whose behalf the data is being queried or provided. Participant ID as published in MSATS. ServiceOrderRequest RP, MDP, MPB and MPC: MSATS Participant Ids.	ParticipantID xsd:string	VARCHAR(10)	Participant ID as published by the IMO

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
PersonName	*CustomerDetail/PersonName*	CustomerName	In aseXML PERSONNAME format (see Technical Guidelines for B2B Process Specifications)	PersonName	PERSONNAME	
PersonName	*ContactDetail/PersonName*	RetailerContactName	Contact name of Retailer, to be provided where Service Provider may need to contact the Retailer.	PersonName	PERSONNAME	
PhoneNumber	*ContactDetail/PhoneNumber*	ContactTelephoneNumber RetailerContactTelephoneNumber ServiceProviderContactTelephoneNumber	Contact telephone number of customer/agent or Service Provider.	AustralianPhoneNumber	TELEPHONE	AustralianPhoneNumber
PhoneNumber	*CustomerDetail/PhoneNumber*	PhoneNumber		AustralianPhoneNumber	TELEPHONE	AustralianPhoneNumber
PhoneNumber	*License/PhoneNumber*	REC-Telephone	Registered Electrical Contractor telephone number	AustralianPhoneNumber	TELEPHONE	
PhoneNumber	*ContactDetail/PhonrNumber*	RetailerContactTelephoneNumber	Contact telephone number of Retailer.	AustralianPhoneNumber	TELEPHONE	
PostalAddress	*CustomerDetail/PostalAddress*	PostalAddress	Postal address for the customer	Address		An aseXML compliant structured address is required, otherwise an unstructured address must be provided.

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
PostalDeliveryNumberPrefix	*Address/AustralianAddress/StructuredAddress/PostalDelivery/PostalDeliveryNumber/PostalDeliveryNumberPrefix*	PostalDeliveryNumberPrefix	Defines the postal delivery number prefix as per Australian Standard AS4590-1999	xsd:string pattern: [\p{Lu}]{1,3}	VARCHAR(3)	This field may only contain a maximum of 3 capital letters.
PostalDeliveryNumberSuffix	*Address/AustralianAddress/StructuredAddress/PostalDelivery/PostalDeliveryNumber/PostalDeliveryNumberSuffix*	PostalDeliveryNumberSuffix	Defines the postal delivery number suffix as per Australian Standard AS4590-1999	xsd:string pattern: [\p{Lu}]{1,3}	VARCHAR(3)	This field may only contain a maximum of 3 capital letters.
PostalDeliveryNumberValue	*Address/AustralianAddress/StructuredAddress/PostalDelivery/PostalDeliveryNumber/PostalDeliveryNumberValue*	PostalDeliveryNumberValue	Defines the postal delivery number value as per Australian Standard AS4590-1999	xsd:nonNegativeInteger **maxIncl = 99999**	NUMERIC(5)	IN RANGE: 0-99999
PostalDeliveryType	*Address/AustralianAddress/StructuredAddress/PostalDelivery/PostalDeliveryType*	PostalDeliveryType	A code that defines the postal delivery type as per Australian Standard AS4590-1999.	xsd:string with enumerations	VARCHAR(11)	Allowable codes include: CARE PO, CMA, CMB, CPA, GPO BOX, LOCKED BAG, MS, PO BOX, PRIVATE BAG, RSD, RMB, RMS

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
PostCode	*Address/AustralianAddress/PostCode*	SiteAddressPostcode	Defines the postcode as per Australian Standard AS4590-1999	xsd:string pattern: [\p{N}]{4}	CHAR(4)	This field may only contain 4 numbers.
Prefix	*PhoneNumber/Prefix*	Prefix	Defines Australian telephone number prefix as per Australian Standard AS4590-1999	xsd:string maxLen = 4	VARCHAR(4)	
ProposedNetworkTariff	*RequestData/ProposedNetworkTariff*	ProposedTariff	The new network tariff required by the Retailer.	xsd:string maxLen = 10	VARCHAR(10)	Allowed values are the code for the Network's published tariff assigned within the network operator's registry at the meter register ID level and published on the network operator's web site..
Read	*Current/Read*	CurrentRead	Original meter reading provided in the MDFF Data that is being queried. This must be presented as a Register Read. Example of values: 1234567.123 or 0012456.123. Values must include leading zeros. Values must be exclusive of meter multipliers.	xsd:string maxLen = 15	VARCHAR(15)	

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
ReadDate	*Current/ReadDate*	CurrentReadDate	Date of the meter reading in the MDFF Data being queried. Must be provided if CurrentRead is populated.	xsd:date	DATE	
Reason	*CustomerDetailsRequest/Reason*	Reason	Notes regarding the allowed values in the Enumerated list: ▪ "Returned Mail" means the DNSP has received returned mail with the current PostalAddress held by the DNSP. ▪ "Missing Customer Details" means the DNSP reasonably believes the customer details have changed and the Retailer has not provided a Notification of the Changes (e.g. move-in or transfer has occurred). ▪ "Confirm Life Support" means the DNSP requires confirmation of whether the Connection Point has a life support requirement or not. ▪ "Other" means other reasons to the specified ones. If this Code is use, the DNSP must provide the details of the reason in the in SpecialNotes field.	xsd:string with enumerations	VARCHAR(40)	Enumerated List: ▪ Returned Mail ▪ Missing Customer Details ▪ Confirm Life Support ▪ Other

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
RegisterID	*NMIStandingData/MeterRegister/WAMeter/RegisterConfiguration/Register/RegisterID*	RegisterID	Register identifier. Defined the same as the RegisterID field in the CATS_Register_Identifier table. VerifyMeterDataRequest Required if the data being queried is at the single register level.	xsd:string maxLen = 10	VARCHAR (10)	
ResponseCode	*NotificationData/ResponseCode*	ExceptionException Code	The following exception codes should be used where the ServiceOrderStatus is "'Not Completed". ▪ De-energisation Not Completed Due To A Re-energisation ▪ Documentation Not Provided ▪ No Supply ▪ Other ▪ Request Submitted By Another Retailer ▪ Retailer Cancellation ▪ Service Provider Cancellation ▪ Unable To Access ▪ Unknown Load ▪ Unsafe The following codes are specific to De-energisation service orders where the ServiceOrderStatus is "Not Completed".	xsd:string with enumerations	VARCHAR(21)	Enumerated list ▪ Customer On-Site ▪ Customer Prevented ▪ De-energisation Not Completed Due To A Re-energisation ▪ Documentation Not Provided ▪ Metering Problem ▪ Meter Reading Only Undertaken Due To Prior Re-energisation ▪ New Customer On-Site ▪ No Supply ▪ Other ▪ Reading Problem ▪ Request Submitted

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
			▪ Customer Prevented ▪ Customer On-Site ▪ New Customer On-Site ▪ Sensitive Load The following exception codes should be used where the ServiceOrderStatus is "Partially Completed ": ▪ Metering Problem ▪ Reading Problem ▪ Other The following exception codes may be used where the ServiceOrderStatus is "Completed ": ▪ Meter Reading Only Undertaken Due To Prior Re-energisation			By Another Retailer ▪ Retailer Cancellation ▪ Sensitive Load ▪ Service Provider Cancellation ▪ Unable To Access ▪ Unknown Load ▪ Unsafe
Role	*NMIStandingData/RoleAssignments/RoleAssignment/Role*	ParticipantRole	The market role of the Participant on whose behalf the data is being queried or provided. Participant Role as published in MSATS.	xsd:string maxLen = 4	VARCHAR(4)	FRMP LR LNSP MDP MDA MDB MDC ROLR

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
SafetyCertificateID	*SafetyCertificate/ID*	SafetyCertificateID	Reference to the safety certificate number associated with New Connections and Meter Adds and Alts used in each jurisdiction. Victoria = CES; SA = ECC; ACT = Inspection Certificate; NSW = not applicable. Used in Vic, SA and ACT only. This must be provided in Victoria for sites that have been physically de-energised for more than 12 months.	xsd:string minLen = 1 maxLen = 15	VARCHAR(15)	
ScheduledDate	*AppointmentDetail/Scheduled Date*	ScheduledDate	The ServiceOrderRequest must be performed on or after this date.	xsd:date	DATE	

aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
SensitiveLoad	*Customer/SensitiveLoad*	SensitiveLoad	This field indicates if there are economic, health or safety issues with loss of supply of the Connection Point. This value 'None' field must be provided where the site is vacant The value 'Life Support' is as defined by the relevant jurisdictional instrument. The value 'Sensitive Load' is used to indicate that the Retailer reasonably believes there are economic, health or safety issues with loss of supply of the Connection Point, other than life support ones. Where Life Support and Sensitive Load both apply to a Connection Point, the Life Support value must be provided.	xsd:string with enumerations	VARCHAR(20)	Allowed Values ▪ Life Support ▪ Sensitive Load ▪ None

aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
SerialNumber	*NMIStandingData/MeterRegister/WAMeter/SerialNumber/*	MeterSerialNumber MeterSerial	Meter serial number. This is the number used by the DNSP. It is not the manufacturer's serial number. VerifyMeterDataRequest Required if the data being queried is at the single meter level or is at an individual data stream level.	xsd:string maxLen = 12	VARCHAR (12)	
	ElectricityMeter/SerialNumber	MeterSerialNumber MeterSerial	Meter serial number. This is the number used by the DNSP. It is not the manufacturer's serial number. ServiceOrderRequest This should be provided where any work is specific to a given meter.	xsd:string maxLen = 12	VARCHAR (12)	
ServiceComment	*PhoneNumber/ServiceComment*	ServiceComment	Telephone service comment.	xsd:string maxLen = 40	VARCHAR(40)	Home Business

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
ServiceOrderNumber	*ServiceOrder/ServiceOrderNumber*	RetServiceOrder	Retailer defined reference, used for reference and tracking. Must be a previously provided number if the ActionType = "Cancel". Otherwise (*ActionType* = "New" or "Replace") must be a new (unused) number, unique for the Retailer/Service Provider combination.	xsd:string minLen = 1 maxLen = 15	VARCHAR (15)	UniqueIdentifier
ServiceOrderStatus	*NotificationData/ServiceOrderStatus*	ServiceOrderStatus	Indicates status of Service Order: ▪ Completed ▪ Partially Completed (primary work done, but an actual read has not been obtained – see relevant *ExceptionCodes*). ▪ Not Completed (primary work not done - see relevant *ExceptionCodes*). Note: "Primary work" means the activity described by the *WorkType* field.	xsd:string with enumerations	VARCHAR(20)	Enumerated list ▪ Completed ▪ Partially Completed ▪ Not Completed

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
ServiceProviderReference	*ServiceOrder/ServiceProviderReference*	ServiceProviderReference	Service Provider defined reference, used for reference and tracking. Not necessarily unique. This field is for information only and must not be used for validation of the Notification/Response.	xsd:string maxlen = 15	VARCHAR(15)	
ServiceTime	*RequestData/ServiceTime*	ServiceTime	Indicates time the Retailer requires the service to be performed.	xsd:string maxLen = 40 with enumerations	VARCHAR (40)	Allowed values: ▪ Any Time ▪ Business Hours ▪ Non-Business Hours
StateOrTerritory	*Address/AustralianAddress/StateOrTerritory*	SiteAddressState	A code that defines the state as per Australian Standard AS4590-1999.	xsd:string with enumerations	VARCHAR(3)	Allowable codes include: AAT, ACT, NSW, NT, QLD, SA, TAS, VIC, WA
Status	*NMIStandingData/MasterData/Status*	NMIStatusCode	Status Code that the NMI is to become after completion of the Service Order.	xsd:string maxlen = 1	CHAR (1)	Allowed values defined in List of Codes.
StreetName	*Address/AustralianAddress/StructuredAddress/ Street/StreetName*	StreetName	Defines the street name as per Australian Standard AS4590-1999. Note: The combination of Street Name, Street Type and Street Suffix may occur up to two times.	xsd:string pattern: [\p{L}\p{N}\s\-']{1,30}	VARCHAR(30)	This field may only contain letters, numbers, hyphens (‘-‘) and spaces.

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
StreetSuffix	*Address/AustralianAddress/StructuredAddress/ Street/ StreetSuffix*	StreetSuffix	A code that defines the street suffix as per Australian Standard AS4590-1999.	xsd:string with enumerations	VARCHAR(2)	Allowable codes include: CN, E, EX, LR, N, NE, NW, S, SE, SW, UP, W
StreetType	*Address/AustralianAddress/StructuredAddress/ Street/ StreetType*	StreetType	A code that defines the street type as allowed for use in MSATS. This refers the StreetType definition in the schema.	xsd:string with enumerations	VARCHAR(4)	
SuburbOrPlaceOfLocality	*Address/AustralianAddress/SuburbOrPlaceOfLocality*	Locality (SiteAddressCity)	Defines the suburb or locality as per Australian Standard AS4590-1999	xsd:string maxLen = 46	VARCHAR(46)	
Suffix	*NMIStandingData/MeterRegister/Meter/RegisterConfiguration/Register/DataStreams/DataStream/Suffix*	NMISuffix	As defined in the National Metering Identifier Procedures (Document No:ME_GN059vxxx). Only Required if a single NMISuffix is the subject of the Request. Eg. “E1”,”K1”,”Q2” etc.	xsd:string length = 2	CHAR(2)	
SupplyPhase	*RequestData/SupplyPhase*	SupplyPhases	Code indicating number of phases supply is to support: If “Other Multi-phase” used, then further details must be provided as SpecialInstructions.	xsd:string with enumerations	VARCHAR (20)	Enumerated list ▪ 1-phase ▪ 2-phase ▪ 3-phase ▪ Other Multi-phase

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aseXML Element/Attribute Name	aseXML Element Name/ Local Path	B2B Procedure Element Name(s)	Definition	aseXML Data Type	B2B Procedure Format	Allowed Values
SwitchingServiceRequired	*RequestData/SwitchingServiceRequired*	SwitchingServiceRequired	Service Provider expected to provide and install a switching service (eg. time-switch or ripple controller)?	xsd:boolean	YESNO	TRUE FALSE
To	*/ase:aseXML/Header/To*	MDPID ServiceProviderID ParticipantID	Participant ID as published in MSATS. PartyIdentifier. Occurs in message header. Service Provider (DNSP or MDP or MPB).	PartyIdentifier xsd:string	VARCHAR(10)	
ToDate	*ConcessionCard/ToDate*	ToDate	Date at which card expires. Only required in the ACT.	xsd:date	DATE	
WorkType	*ServiceOrderType/ WorkType*	ServiceOrderType	Code indicating type of ServiceOrderRequest	xsd:string with enumerations	VARCHAR (22)	Enumerated list: ▪ New Connection ▪ Re-energisation ▪ De-energisation ▪ Special Read ▪ Adds And Alts ▪ Meter Reconfiguration ▪ Meter Investigation ▪ Supply Abolishment ▪ Miscellaneous

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Table A-1: Data Dictionary – Transactions

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A.2. Generic Interface Data Elements

aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
@duplicate	*/ase:aseXML/Acknowledgements/MessageAcknowledgement*		Indicates if the receiver believes it has already processed the message and returned an acknowledgement.	xsd:string with enumerations		Yes No
@duplicate	*/ase:aseXML/Acknowledgements/TransactionAcknowledgement*		Indicates if the receiver believes it has already processed the transaction and returned an acknowledgement.	xsd:string with enumerations		Yes No
@initatingMessageID	*/ase:aseXML/Acknowledgements/MessageAcknowledgement*		*ase:MessageID* element in the header of the message being acknowledged.	xsd:string minLen = 1 maxlen = 36		
@initiatingTransactionID	*/ase:aseXML/Acknowledgements/TransactionAcknowledgement*		Corresponds to the value of the *ase:@transactionID* attribute on the container element for the transaction.	xsd:string minLen = 1 maxlen = 36		
@receiptDate	*/ase:aseXML/Acknowledgements/MessageAcknowledgement*		DateTime at which the message was processed/validated	xsd:dateTime		
@receiptDate	*/ase:aseXML/Acknowledgements/TransactionAcknowledgement*		DateTime at which the transaction was queued for processing.	xsd:dateTime		

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aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
@receiptID	*/ase:aseXML/Acknowledgements/MessageAcknowledgement*		The *ase:receiptID* is a unique identifier assigned by the receiver of a message to identify the processing they intend to perform as a result of receiving it.	xsd:string minLen = 1 maxlen = 36		
@receiptID	*/ase:aseXML/Acknowledgements/TransactionAcknowledgement*		A unique identifier, assigned by the receiver of a transaction, to identify the processing they intend to perform as a result of receiving it.	xsd:string minLen = 1 maxlen = 36		
@status	*/ase:aseXML/Acknowledgements/MessageAcknowledgement*		Indicates if the Message was accepted or rejected by the Recipient.	xsd:string with enumerations		Accept Reject
@status	*/ase:aseXML/Acknowledgements/TransactionAcknowledgement*	*Status*	Indicates if the Transaction was accepted or rejected by the Recipient.	xsd:string with enumerations	Enumeration	Accept Partial Reject
Code	*/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event* */ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event*	*EventCode*	A code to indicate acceptance or the reason for the rejection.	xsd:nonNegativeNumber	NUMERIC(4)	

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aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
Code@description	*/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event* */ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event*			xsd:string		
Context	*/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event* */ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event*	*Context*	The Data Element in the received Business Document that caused the Event. Meter Data For an error in the .csv data block (*KeyInfo* is populated) this will be a copy of the line where the event was found. Note: A complete copy of the line may not be possible in all cases, in which case (up to) the first 80 characters should be provided.	xsd:string maxlen = 80	EVENT CONTEXT [VARCHAR(80)]	

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aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
Explanation	*/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event* */ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event*	*Explanation*	An explanation of the event.	xsd:string	UNLIMITED VARCHAR	
From	*/ase:aseXML/Header*		Identifies the business party (Participant) who sends the message.	PartyIdentifier xsd:string		
From@context	*/ase:aseXML/Header*		A context attribute defines the format of the identifier. By default, National Electricity Market participant identifiers are assumed (*Context*= ”NEM”).	xsd:string with enumerations		ABN NEM
From@description	*/ase:aseXML/Header*		Long name or description of the identifier	xsd:string		
KeyInfo	*/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event* */ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event*	*KeyInfo*	Provide further detail (to *Class* and *Code*) as to the information needed to locate the source of the event within the original transaction. For CSV data carried as the content of an element, the value of the <KeyInfo> field should be the key column values for the	xsd:string maxlen = 80	Service Orders VARCHAR(15) Meter Data NUMERIC(8) Customer	

aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
			line in error, separated by commas if necessary. Service Orders The *RetServiceOrder* of the transaction being accepted or rejected. Customer & Site Details Notification The *NMI* of the transaction being rejected. Meter Data If this field is populated with a number, the number is the line number within the CSV data block that the event occurred. If the field is not populated, the *EventCode* refers to the aseXML transaction, not the .csv data.		and Site Details Notification VARCHAR(10)	

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aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
Market	*/ase:aseXML/Header*		Identifies the energy market to which the transactions in the message belong. The value of "NEM" must be provided for B2B Transactions. "NEM" indicates the National Electricity Market. In WA "WAELEC" indicates the WA Electricity Market	xsd:string with enumerations		NEM WAELEC
MessageDate	*/ase:aseXML/Header*		DateTime at which the message was generated by the sender and should be indicated to the millisecond.	xsd:datetTme		
MessageID	*/ase:aseXML/Header*		Message identifier; It needs to be unique for the sender.	xsd:string minLen = 1 maxlen = 36		Participants must not commence their identifier with "B2BM", as this prefix is resered for use by the B2B Browser.
Priority	*/ase:aseXML/Header*		Indicate sender's preference in terms of timeliness of processing for the payload.	xsd:string with enumerations		High Medium Low

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aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
SecurityContext	*/ase:aseXML/Header*		Information to determine whether or not the sender is authorised to submit the transactions within the message.	xsd:string maxlen = 15		Not used for B2B Electricity
SupportedVersions	*/ase:aseXML/Acknowledgements/MessageAcknowledgement/Event* */ase:aseXML/Acknowledgements/TransactionAcknowledgement/Event*		Indicates the versions of the transaction that are supported by the receiver via one or more <Version> sub-elements.	xsd:string with enumerations		schema versions: r_x.
To	*/ase:aseXML/Header*		Identifies the business party (Participant) who receives the message.	PartyIdentifier xsd:string		
To@context	*/ase:aseXML/Header*		A context attribute defines the format of the identifier. By default, National Electricity Market participant identifiers are assumed (context=”NEM”)	xsd:string with enumerations		ABN NEM
To@description	*/ase:aseXML/Header*		Long name or description of the identifier	xsd:string		
Transaction	*/ase:aseXML/Transactions*		Contains the transactions.			

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aseXML Element Name	aseXML Element Name/Path	B2B Procedure Element Name(s) [Not specified in most cases]	Definition	aseXML Data Type	B2B Procedure Format [Not specified in most cases]	Allowed Values
Transaction @transactionDate	*/ase:aseXML/Transactions*		DateTime at which the transaction was generated.	xsd:dateTime		
Transaction@initiatingTransactionID	*/ase:aseXML/Transactions*	RequestID (where the initiating Transaction is an ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest)	Where the transaction is a response to a previous request, the value matches that of the *ase:@transactionID* attribute of the initiating request transaction.	xsd:string minLen = 1 maxlen = 36		
Transaction@transactionID	*/ase:aseXML/Transactions*	RequestID (where the Transaction is a ase:MeterDataMissingNotification or ase:MeterDataVerifyRequest)	Unique (for sender) identifier of the transaction.	xsd:string minLen = 1 maxlen = 36		Participants must not commence their identifier with “B2BT”, as this prefix is resered for use by the B2B Browser.
TransactionGroup	*/ase:aseXML/Header*		This is the transaction group of all transactions and acknowledgments.	xsd:string with enumerations		CUST SORD MTRD SITE

Table A-2: Data Dictionary – Generic Interface

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Appendix B. Listing of Fields Grouped by B2B Transaction

This section provides a listing of fields in each B2B Transaction with the aseXML Element Name and Path.

B.1. ServiceOrderRequest

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B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
ActionType	*@actionType*	*@actionType*
RetServiceOrder	*ServiceOrderNumber*	*ServiceOrder/ServiceOrderNumber*
RetailerID	*From*	*/ase:aseXML/Header/From*
ServiceProviderID	*To*	*/ase:aseXML/Header/To*
ServiceOrderType	*WorkType*	*ServiceOrderType/WorkType*
ServiceOrderSubType	*@workSubType*	*WorkType@workSubType*
ConfirmedDe-energisation	*Confirmed De-energisation*	*RequestData/Confirmed De-energisation*
ServiceTime	*ServiceTime*	*RequestData/ServiceTime*
NMI	*NMI*	*ServiceOrder/NMI*
NMIChecksum	*@checksum*	*NMI@checksum*
MeterSerialNumber	*SerialNumber*	*RequestData/ElectricityMeter/Meter/SerialNumber*
RetServiceOrder	*ServiceOrderNumber*	*ServiceOrder/ServiceOrderNumber*
ServiceOrderAddress	*AustralianAddress*	*ServiceOrder/Address/AustralianAddress*
HazardDescription	*Description*	*Hazard/Description*
AccessDetails	*AccessDetails*	*ServicePoint/AccessDetails*
DocumentReference	*FormReference*	*DocumentReference/FormReference*

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B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
DocumentReference	*FormNumber*	*DocumentReference/FormNumber*
SafetyCertificateId	*ID*	*SafetyCertificate/ID*
SafetyCertificateMethodSent	*MethodSent*	*SafetyCertificate/MethodSent*
SpecialInstructions	*CommentLine*	*SpecialInstructions/ CommentLine*
CustomerConsultationRequired	*CustomerConsultationRequired*	*RequestData/CustomerConsultationRequired*
ContactName	*PersonName*	*CustomertDetail/PersonName*
ContactTelephoneNumber	*PhoneNumber*	*CustomertDetail/PhoneNumber*
RetailerContactName	*PersonName*	*ContactDetail/ PersonName*
RetailerContactTelephoneNumber	*PhoneNumber*	*ContactDetail/PhoneNumber*
ScheduledDate	*ScheduledDate*	*AppointmentDetail/ScheduledDate*
AppointmentReference	*AppointmentDetail/Reference*	*AppointmentDetail/Reference*
CustomersPreferredDateAndTime	*Date and Time*	*AppointmentDetail/Preferred/Date and AppointmentDetail/Preferred/Time*
NMIStatusCode	*Status*	*NMIStandingData/MasterData/Status*
EmbeddedNetworkParentName	*ParentEmbeddedNetworkIdentifier*	*NMIStandingData/MasterData/ParentEmbeddedNetworkIdentifier*
CustomerType	*CustomerType*	*RequestData/CustomerType*
AverageDailyLoad	*AverageDailyLoad*	*RequestData/AverageDailyLoad*

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Deleted: *Party*

B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
MaximumDemand	*MaximumDemand*	*RequestData/MaximumDemand*
InstallationType	*InstallationType*	*RequestData/InstallationType*
SupplyPhases	*SupplyPhase*	*RequestData/SupplyPhase*
MeteringRequired	*MeteringType*	*RequestData /MeteringType*
OffPeakRequirements	*OffPeakRequirements*	*RequestData /OffPeakRequirements*
MeterInstallCode	*InstallationTypeCode*	*RequestData/ElectricityMeter/InstallationTypeCode*
SwitchingServiceRequired	*SwitchingServiceRequired*	*RequestData/SwitchingServiceRequired*
ProposedTariff	*ProposedNetworkTariff*	*RequestData/ProposedNetworkTariff*

Table B-1: ServiceOrderRequest Field Mapping

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Deleted: *License/PhoneNumber*

Deleted: *PhoneNumber*

Deleted: *REC-ID*

Deleted: *License/LicenseNumber*

Deleted: *LicenseNumber*

Deleted: *REC-AttendanceRequired*

Deleted: *License/AttendanceRequired*

Deleted: *AttendanceRequired*

Deleted: *NMIStandingData/MeterRegister/Meter*

Deleted: *Code*

Deleted: *NMIStandingData/MeterRegister/Meter/RegisterConfiguration/Register/NetworkTariffCode*

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B.2. ServiceOrderResponse

B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
ResponseType	*@responseType*	*ServiceOrderResponse@responseType*
RetServiceOrder	*ServiceOrderNumber*	*ServiceOrder/ServiceOrderNumber*
RetailerID	*To*	*/ase:aseXML/Header/To*
ServiceProviderID	*From*	*/ase:aseXML/Header/From*
NMI	*NMI*	*ServiceOrder/NMI*
NMIChecksum	*@checksum*	*NMI/@checksum*
ServiceOrderAddress	*AustralianAddress*	*ServiceOrder/Address/AustralianAddress*
ServiceOrderStatus	*ServiceOrderStatus*	*NotificationData/ServiceOrderStatus*
ExceptionCode	*ResponseCode*	*NotificationData/ResponseCode*
ActualDateAndTime	*ActualDateTime*	*NotificationData/ActualDateTime*
SpecialNotes	*CommentLine*	*SpecialNotes/CommentLine*
ServiceProviderContactName	*PersonName*	*ContactDetail/ PersonName*
ServiceProviderContactTelephoneNumber	*PhoneNumber*	*ContactDetail/PhoneNumber*
ServiceProviderReference	*ServiceProviderReference*	*ServiceOrder/ServiceProviderReference*
ProductCode1	*Code*	*Product/Code*
ProductCode2	*Code*	*Product/Code*
ProductCode3	*Code*	*Product/Code*

Table B-2: ServiceOrderResponse Field Mapping

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B.3. ServiceOrderAppointmentNotification

B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
ResponseType	*@responseType*	*ServiceOrderResponse@responseType*
RetServiceOrder	*ServiceOrderNumber*	*ServiceOrder/ServiceOrderNumber*
RetailerID	*From*	*/ase:aseXML/Header/From*
ServiceProviderID	*To*	*/ase:aseXML/Header/To*
NMI	*NMI*	*ServiceOrder/NMI*
NMIChecksum	*@checksum*	*NMI/@checksum*
ServiceOrderAddress	*AustralianAddress*	*ServiceOrder/Address/AustralianAddress*
AppointmentReference	*Reference*	*AppointmentDetail/Reference*
CustomersPreferredDateAndTime	*Date and Time*	*AppointmentDetail/Preferred/Date and AppointmentDetail/Preferred/Time*
ServiceProviderReference	*ServiceProviderReference*	*ServiceOrder/ServiceProviderReference*

3000 **Table B-3: ServiceOrderAppointmentNotification Field Mapping**

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B.4. ProvideMeterDataRequest

B2B Procedure Field Name	aseXML Element / Attribute Name	aseXML Element /Attribute Name/Path
ParticipantID	*From*	*/ase:aseXML/Header/From*
ParticipantRole	*Role*	*NMIStandingData/RoleAssignments/RoleAssignment/Role*
MDPID	*To*	*/ase:aseXML/Header/To*
RequestID	*@transactionID*	*Transaction@transactionID*
NMI	*NMI*	*MissingMeterData/NMI*
NMIChecksum	*@checksum*	*NMI/@checksum*
StartReadDate	*BeginDate*	*RequestPeriod/BeginDate*
EndReadDate	*EndDate*	*RequestPeriod/EndDate*

Table B-4: ProvideMeterDataRequest Field Mapping

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B.5. VerifyMeterDataRequest

B2B Procedure Field Name	aseXML Element /Attribute Name	aseXML Element /Attribute Name/Path
ParticipantID	*From*	*/ase:aseXML/Header/From*
ParticipantRole	*Role*	*NMIStandingData/RoleAssignments/RoleAssignment/Role*
MDPID	*To*	*/ase:aseXML/Header/To*
RequestID	*@transactionID*	*Transaction@transactionID*
NMI	*NMI*	*VerifyRequestData/NMI*
NMIChecksum	*@checksum*	*NMI/@checksum*
NMIConfiguration	*NMIConfiguration*	*VerifyRequestData/NMIConfiguration*
MeterSerial	*SerialNumber*	*NMIStandingData/MeterRegister/WAMeter/SerialNumber*
NMISuffix	*Suffix*	*MeterRegister/WAMeter/RegisterConfiguration/Register/Suffix*
RegisterID	*RegisterID*	*MeterRegister/WAMeter/RegisterConfiguration/Register/RegisterID*
CurrentRead	*Read*	*Current/Read*
CurrentReadDate	*ReadDate*	*Current/ReadDate*
CurrentConsumption	*Consumption*	*Current/Consumption*
StartReadDate	*BeginDate*	*RequestPeriod/BeginDate*
EndReadDate	*EndDate*	*RequestPeriod/EndDate*
InvestigationCode	*InvestigationCode*	*VerifyRequestData/InvestigationCode*
InvestigationDescription	*InvestigationDescription*	*VerifyRequestData/InvestigationDescription*

3005 **Table B-5: VerifyMeterDataRequest Field Mapping**

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B.6. MeterDataNotification

B2B Procedure Field Name	aseXML Element /Attribute Name	aseXML Element /Attribute Name/Path
MDPID	*From*	*/ase:aseXML/Header/From*
ParticipantID	*To*	*/ase:aseXML/Header/To*
ParticipantRole	*Role*	*NMIStandingData/RoleAssignments/RoleAssignment/Role*
RequestID	*@initiatingTransactionID*	*Transaction@initiatingTransactionID*
CSVConsumptionData	*CSVConsumptionData*	*MeterDataNotification/CSVConsumptionData*
CSVIntervalData	*CSVIntervalData*	*MeterdataNotification/CSVIntervalData*

Table B-6: MeterDataNotification Field Mapping

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B.7. CustomerDetailsRequest

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B2B Procedure Field Name	aseXML Element /Attribute Name	aseXML Element /Attribute Name/Path
NMI	*NMI*	*CustomerDetailsRequest/NMI*
NMIChecksum	*@checksum*	*NMI@checksum*
Reason	*Reason*	*CustomerDetailsRequest/Reason*
SpecialNotes	*CommentLine*	*Comments/CommentLine*

Table B-7: CustomerDetailsRequest Field Mapping

B.8. CustomerDetailsNotification

B2B Procedure Field Name	aseXML Element /Attribute Name	aseXML Element /Attribute Name/Path
NMI	*NMI*	*Customer/NMI*
NMIChecksum	*@checksum*	*NMI/@checksum*
CustomerName	*PersonName*	*CustomerDetail/ PersonName*
BusinessName	*BusinessName*	*CustomerDetail/ BusinessName*
BusinessContactName	*ContactName*	*CustomerDetail/ ContactName*

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B2B Procedure Field Name	aseXML Element /Attribute Name	aseXML Element /Attribute Name/Path
PostalAddress	*PostalAddress*	*CustomerDetail/PostalAddress*
DeliveryPointIdentifier	*DeliveryPointIdentifier*	*PostalAddress/AustralianAddress/DeliveryPointIdentifier*
PhoneNumber1	*PhoneNumber*	*CustomerDetail/PhoneNumber*
PhoneNumber2	*PhoneNumber*	*CustomerDetail/PhoneNumber*
SensitiveLoad	*SensitiveLoad*	*Customer/SensitiveLoad*
MovementType	*MovementType*	*Customer/MovementType*
LastModifiedDateTime	*LastModifiedDateTime*	*Customer/LastModifiedDateTime*
RebateCode	*@rebateType*	*ConcessionCard/@rebateType*
PensionHealthCardNumber	*Number*	*ConcessionCard/Number*
FromDate	*FromDate*	*ConcessionCard /FromDate*
ToDate	*ToDate*	*ConcessionCard /ToDate*

Table B-8: CustomerDetailsNotification Field Mapping

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B.9. SiteAccessNotification

B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
NMI	*NMI*	*AmendSiteAccessDetails/NMI*
NMIChecksum	*@checksum*	*NMI@checksum*
AccessDetails	*AccessDetails*	*AmendSiteAccessDetails /AccessDetails*
HazardDescription	*Description*	*Hazard/Description*
LastModifiedDateTime	*LastModifiedDateTime*	*AmendSiteAccessDetails /LastModifiedDateTime*

Table B-9: SiteAccessNotification Field Mapping

B.10. SiteAddressNotification

B2B Procedure Field Name	aseXML Element/Attribute Name	aseXML Element /Attribute Name/Path
NMI	*NMI*	*AmendSiteAddressDetails/NMI*
NMIChecksum	*@checksum*	*NMI@checksum*
SiteAddress	*AustralianAddress*	*AmendSiteAddressDetails/Address/AustralianAddress*
LastModifiedDateTime	*LastModifiedDateTime*	*AmendSiteAddressDetails /LastModifiedDateTime*
DeliveryPointIdentifier	*DeliveryPointIdentifier*	*Address/AustralianAddress/DeliveryPointIdentifier*
CustomerType	*CustomerType*	*AmendSiteAddressDetails/CustomerType*

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3020 **Table B-10: SiteAddressNotification Field Mapping**

B.11. *ase:MessageAcknowledgement*

B2B Procedure Field Name	aseXML Element Name	aseXML Element Name/Path
ReceiptID		@receiptID
ReceiptDate		@receiptDate
Status		@status
Event		Event
Class		Event/@class
Severity		Event/@severity
EventCode		Event/Code
EventCodeDescription		Event/Code/@description
KeyInfo		Event/KeyInfo
Context		Event/Context
Explanation		Event/Explanation
InitiatingMessageID		@initiatingMessageID
Duplicate		@duplicate

Table B-11: ase:MessageAcknowledgement Field Mapping

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B.12. Alternative format of message acknowledgement

An alternative format of message acknowledgment can be sent in the case of transportation errors, uncompression failure etc. These acknowledgement only contains an Event element. An example of this option is shown in Table B-1.

Another difference between normal message acknowledgement and the alternative format is the ability to provide multiple Events. The alternative format supports a single event only.

B2B Procedure Field Name	aseXML Element Name	aseXML Element Name/Path
Event		Event
Class		Event/@class
Severity		Event/@severity
EventCode		Event/Code
EventCodeDescription		Event/Code/@description
KeyInfo		Event/KeyInfo
Context		Event/Context
Explanation		Event/Explanation

Table B-12: Alternative ase:MessageAcknowledgement Field Mapping

```
<?xml version="1.0"?>
<ase:Event class="Message" xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">
    <Code>5</Code>
</ase:Event>
```

Figure B-1: Event - only acknowledgment - Uncompression failure

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B.13. ase:TransactionAcknowledgement

B2B Procedure Field Name	aseXML Element Name	aseXML Element Name/Path
ReceiptID		@receiptID
ReceiptDate		@receiptDate
Status		@status
Event		Event
Class		Event/@class
Severity		Event/@severity
EventCode		Event/Code
EventCodeDescription		Event/Code/@description
KeyInfo		Event/KeyInfo
Context		Event/Context
Explanation		Event/Explanation
InitiatingTransactionID		@initiatingTransactionID
Duplicate		@duplicate
AcceptedCount		@acceptedCount

3040 **Table B-13: ase:TransactionAcknowledgement Field Mapping**

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Appendix C. Event Codes

Key to Invoking Transactions

1	ase:ServiceOrderRequest
2	ase:ServiceOrderResponse
3	ase:CustomerDetailsRequest
4	ase:CustomerDetailsNotification
5	ase:AmendMeterRouteDetails/AmendSiteAddressDetails
6	ase:AmendMeterRouteDetails/AmendSiteAccessDetails
7	ase:MeterDataNotification
8	ase:MeterDataMissingNotification
9	ase:MeterDataVerifyRequest
10	All

Values from 0 to 999 are reserved for definition by the aseXML standard. The NEM code range is 1000 – 1999. Where the code is not in the reserved range, a description attribute should also be provided. Ref: [6]s11.3.

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
0	Accept.	Information	+	+	+	+	10		
1	Not well formed	Error	+	+	+	+	10	Message level event code.	
2	Schema validation failure	Error	+	+	+	+	10	Message level event code.	

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
3	Transaction not supported within Transaction Group	Error	+	+	+	+	10	Message level event code.	
4	Transaction version not supported	Error	+	+	+	+	10	Message level event code.	
5	Uncompression failure	Error	+	+	+	+	10	Message level event code.	
6	Message too big	Error	+	+	+	+	10	Message level event code.	
7	Header mismatch	Error	+	+	+	+	10	Message level event code.	
8	Incorrect market	Error	+	+	+	+	10	Message level event code.	
9	Unknown Transaction Group	Error	+	+	+	+	10	Message level event code.	
101	Database update error, typically the result of data integrity rule violation	Error					Not applicable.	Process level event code.	
102	Database system error, typically due to major database problem	Error					Not applicable.	Process level event code.	
111	Participant Outbox full, message cannot be delivered	Error	+	+	+	+	10	Delivery event code.	

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
200	Record(s) not found	Error					Not applicable.	Application level event code, as are all of the codes listed below.	
201	Data missing.	Error	+	+	+	+	10		Yes
202	Invalid data.	Error	+	+	+	+	10		Yes
202	Data Invalid Scheduled Date cannot be in the past.	Error	+				1		Yes
202	Meter not linked to a Metering Point	Error	+				1		
202	Meter Point is abolished / greenfield	Error	+				1		
202	Service order type not allowed. Other service order types already open	Error	+				1		
202	Transaction rejected by recipient: Status=Reject Duplicate=Yes AcceptedCount=1	Error	+				2		Yes
202	Invalid Data. Details provided in Explanation.	Error	+				2		Yes
202	NMI is not contestable	Error				+	8		

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
203	Unknown report	Error					Not applicable.		
204	Missing or invalid report parameters	Error					Not applicable.		
206	Recipient did not initiate request	Error	+	+		+	2, 4, 7	For 4 & 7, this can only be used where the Transaction is provided in response to a Request.	Yes
207	Unrecognised *EventCode*	Error					Not applicable.		
999	Unexpected Error	Error	+	+	+	+	10		Yes
1156	NMI and Checksum do not match	Error	+	+	+	+	1,2,3,4,5,6,8,9	Existing MSATS value.	
1910	*ServiceOrderSubType* does not match *ServiceOrderType.*	Error	+				1		
1912	Unable to perform the work within the required timeframe, alternate date provided in *Explanation*.	Warning	+				1		Yes
1913	New request with previously used *RequestID.*	Error				+	8,9		Yes

Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1914	New request with previously used *RetServiceOrder.*	Error	+				1		
1915	Service Provider does not support this *ServiceOrderType* or *SubType*	Error	+				1		
1916	Invalid *AppointmentReference*.	Error	+				1		
1917	Unable to cancel ServiceOrderRequest. Requested work has commenced or is completed.	Error	+				1		
1918	NMI already allocated for this address.	Error	+				1		
1919	Requested metering configuration is incorrect.	Error	+				1		Yes
1921	*ActualDateAndTime* is after the date and time the ServiceOrderResponse was sent.	Error	+				2		

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1922	Appointment Notification does not match a ServiceOrderRequest.	Error	+				2		
1923	Recipient is not responsible for the supplied NMI.	Error	+	+	+	+	1,2,3, 4, 5, 6, 8, 9		Yes
1923	NMI does not exist	Error	+	+		+	1,5,6,8,9		
1923	Participant not FRMP for NMI	Error	+				1		
~~1924~~	~~*NMIChecksum* invalid.~~	~~Error~~	~~+~~	-		~~+~~		~~Not used as this serves same purpose as 1156.~~[15]	
1925	Format problem found in MDFF	Error				+	7		Yes
1931	No data found.	Error				+	8, 9		
1932	Participant is not authorised to receive the requested data.	Error		+		+	3, 8, 9		

[15] Replacement of this Event with 1156 supported by the the Build Pack review workshop 9-11 March 2005.

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1933	Participant is not entitled to requested data for date range requested.	Error				+	8, 9		
1934	Participant is not entitled to requested data for part of the date range requested	Information / Error				+	8, 9	This Event Code has a Severity of Information when used with an ase:MeterDataMissingNotification and an Error Severity when used with an ase;MeterDataVerifyRequest.	
1936	Requested data has previously been sent in response to a previous ProvideMeterDataRequest.	Error				+	8		
1937	Unable To Cancel, Original Request Not Received	Error	+				1		
1938	Previous Cancellation Already Processed	Error	+				1		
1939	Not Current FRMP	Error		+	+		4,5,6		

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1940	Unable to perform the work after hours, alternative time provided in *Explanation*.	Warning	+				1		Yes
1941	No Meter At Site	Error	+				1		
1942	Address identical to address held by DNSP	Information			+				
1943	Address not accepted.	Error			+		5		
1944	Rejection – site already de-energised.	Error	+				1		
1945	Retailer Is Not Permitted To Raise This Service Order Type	Error	+				1		
1946	Requested data is no longer on-line	Error				+	8,9		
1947	Address not accepted.	Error			+				
1948	NSRD not past yet (ie allowed timeframe to provide reading has not expired yet).	Error				+	9		
1949	Medical Certificate not received in time	Error		+			4	SA only	Yes

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1950	Mandatory field not populated. Missing field(s) listed in Explanation.	Error	+	+	+	+	10		Yes
1951	Product Code does not match requested work	Warning	+				2		
1952	Invalid Multiple Service Order Combination	Error	+				1		Yes
1953	Documentation required, see Explanation for details	Warning	+				1		Yes
1954	*ScheduledDate* greater than 100 calendar days in the future.	Error	+				1		
1955	*RetServiceOrder* value of the rejected Request is not in *SpecialInstructions*	Error	+				1		
1956	Request submitted by another Retailer	Error	+				1		
1957	The Request falls outside the Service Provider's regulatory and contractual obligations.	Error	+				1		Yes

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1958	Insufficient information provided to action Request.	Error				+	9		Yes
1959	Query has been investigated and no change made to the MDFF Data.	Error				+	9		Yes
1960	*StartReadDate* is before the MDP SLR on-line storage requirement.	Information				+	8,9		
1961	NMI abolished	Error				+	8		
1961	NMI is extinct	Error				+	9		
1962	No active meters	Error				+	8,9		
1963	Recipient is not the MDP for the whole period.	Information / Error				+	8,9	This Event Code has a Severity of Information when used with an ase:MeterDataMissingNotification and an Error Severity when used with an ase;MeterDataVerifyRequest.	
1964	Unable to Cancel, Original Request Rejected.	Error	+				1		

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Event Code	Business Event	Severity	Group				Invoking Transaction	Notes	*Explanation* Required
			SORD	CUST	SITE	MTRD			
1965	Request matches an existing Request. The *TransactionID* of the related Request is provided in *Explanation*.	Error		+		+	3, 8, 9		Yes
1966	No further data available.	Information				+	8		Yes
1967	"Replace" ServiceOrderRequest sent without the prior agreement of the Receiver.	Error	+				1		
1969	Invalid Request.	Error				+	9		Yes
1970	Agree that NMI is not Sender's	Information				+	9	Used in response to an *ase:InvestigationCode* of "Recipient not responsible for the NMI".	
1999	Miscellaneous error, not covered by the other Event Codes.	Information / Error	+	+	+	+	10		Yes

Table C-1: Event Codes Listing

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Appendix D. Event Usage Rules

D.1. Generic Usage Rules for selected Events

Introduction

All events in the aseXML reserved range (0-999) fall into one of the following classes. Ref: [6] 11.1, 11.3 and 11.8.

- Message

  The Message class covers validation of the aseXML message structure. Examples of errors at this level include inconsistent header elements, unsupported transactions and unsupported transaction versions.

  The Message class Event Codes are in the range 1-99.

- Application (default)

  This class covers application level validation. Events of this class will normally only appear in *ase:TransactionAcknowledgement* elements or in Response Transactions.

  The Application class Event Codes are in the range 100-199.

- Processing

  The processing class covers environmental issues. An example might be the long-term unavailability of target applications or the corruption of a database.

  The Processing class Event Codes are in the range 200-998.

- The Events 0 and 999 may be used for all classes.

The Events outside the aseXML reserved range are allocated to specific markets or functions. This allocation is not an exclusive allocation; some Events are used in multiple markets. For example, some Events used in the SA/WA Gas Market are from the Victorian Gas Market range.

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Use	Range
aseXML Reserved	0-999
National Electricity Market (including WA Electricity Market)	1000-1999
New South Wales Gas Market	2000-2999
Victorian Gas Market	3000-3999
Faults	4000-4099
SA/WA Gas Market	5000-5999

Table D-1: Allocated Event Code Ranges

Generic Events Usage

This table details Event usage rules that apply to more than one specific Transaction; for example, all messages or transactions or fields appearing in more than one Transaction, such as *NMI*.

Validated item	Validation	Event	Description	Reference
All Messages, Transactions or Acknowledgements	The Message, Transaction or Acknowledgement contains no errors.	0	Message, Transaction or Acknowledgement is accepted with no errors detected. Accept.	Ref: [6] 10.3.4, 10.4.4, 11.8.
Message	Compliance of Message with aseXML requirements.	1	Not well formed	Ref: [6] 11.8.
Message	Compliance of Message with aseXML schema requirements.	2	Schema validation failure	Ref: [6] 11.8.
Message	Transaction belongs to the Transaction Group provided.	3	Transaction not supported within Transaction Group	Ref: [6] 11.8.

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Validated item	Validation	Event	Description	Reference
Message	Transaction version used is supported by the Recipient.	4	Transaction version not supported	Ref: [6] 11.8.
Message	Message uncompresses without error and contains an appropriate file within the compressed format container.	5	Uncompression failure. This covers both errors in the uncompression process and the absence of the appropriate file within the compressed format container.	Ref: [6] 11.8.
Message	Message size is less than an uncompressed Message size of 1 MB.	6	Message too big.	Ref [5] 4.8.a.
Message	Information provided by transport layer is consistent with the message header.	7	Header mismatch.	Ref: [6] 11.8.
Message	Correct Market value ('NEM') used in Header.	8	Incorrect market	
Message	Valid Transaction Group.	9	Unknown Transaction Group	
Application level (B2B Handler)	OutBox of Recipient has capacity to receive Message.	111	Participant Outbox full, message cannot be delivered.	
All data elements	All information required to process the Transaction is provided. This test applies to data elements that are Mandatory on the basis of other data elements being provided (ie Required in the B2B Procedures).	201	Data missing. Details provided in *Explanation.*	
All data elements	The information provided in the Transaction is valid.	202	Invalid data. Details provided in *Explanation.*	
Transaction@initiating TransactionID (RequestID) element	The Request ID is an ID generated by the Recipient.	206	Recipient did not initiate request	

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Validated item	Validation	Event	Description	Reference
Code element	The Code value is a valid value.	207	Unrecognised *EventCode*	
All Messages, Transactions or Acknowledgements	Error found does not fit one of the existing Event Codes.	999	Unexpected Error. Must be accompanied by an *Explanation* element. Only to be used where an error can't reasonably be mapped to an existing error code.	
All data elements	All Mandatory data elements (Procedure imposed rather than schema imposed) are provided. This test applies to data elements that are Mandatory in all cases in the B2B Procedures.	1950	Mandatory field not populated. Missing field(s) listed in *Explanation*.	
All data elements	Used where the other applicable Event Codes do not apply to the error situation.	1999	Miscellaneous error, not covered by the other Event Codes.	
To element	The Recipient has a relevant Role for the NMI that is the subject of the Transaction.	1923	Recipient is not responsible for the supplied NMI.	
	Participant ID is a published MSATS ID.	202	Invalid Participant ID.	
From element	Participant ID is a published MSATS ID.	202	Invalid Participant ID.	
NMI element	The Recipient is responsible for the NMI supplied.	1923	Recipient is not responsible for the supplied NMI.	
	Valid NMI.	1923	NMI Does not exist	
	Valid NMI.	1085	Invalid NMI.	
	NMI created and still exists.	1961	NMI is abolished.	

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Validated item	Validation	Event	Description	Reference
NMI@checksum element	If provided, the NMI Checksum is valid.	1156	*NMI* and *NMIChecksum* do not match.	

Duplicates: Processing requirements where a Participant receives a Transaction that duplicates an existing Transaction (same Message or Transaction ID) are described in Ref [6] 10.6.

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D.2. Transaction Validation Rules - ase:MeterDataNotification

Field Level Validation

Data Element	Validation	Event	Description	Reference
ParticipantRole	Participant Role is the published MSATS Role for this Participant ID.	1932	Participant ID with provided role cannot be verified as a valid recipient according to MSATS	Ref: [1] 4.3.a, 2.7.a
Transaction@initiating TransactionID (RequestID)	The Request ID is an ID generated by the Recipient.	206	Recipient did not initiate Request	Ref: [1] 4.3.a
CSVConsumptionData Or *CSVIntervalData*	The data element is a valid MDFF format.	1925	Format problem found in MDFF.	Ref: [1] 2.8.a, 4.3.a
CSVConsumptionData	The data element is a valid MDFF format for basic meter data.	1925	Format problem found in MDFF.	Ref: [1] 2.8.a, 4.3.a
CSVIntervalData	The data element is a valid MDFF format for interval meter data.	1925	Format problem found in MDFF.	Ref: [1] 2.8.a, 4.3.a

Process Level Validation

Validation	Event	Description	Reference
The MDFF Data for all NMIs in the MDFF Data is readable and correctly formatted.	1925	Partial – One or more NMIs' data in the MDFF Data is corrupt or incorrectly formatted. Provide details in *KeyInfo* and *Context* fields.	Ref: [1] 4.3.a

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Validation	Event	Description	Reference
	1925	Reject – All MDFF Data is corrupt or incorrectly formatted.	Ref: [1] 4.3.a
The CSV data element in the MDFF Data is either a valid MDFF format for basic meter data or a valid MDFF format for interval meter data.	1925	Reject – The CSV data elements contain a mix of basic and interval meter data.	Ref: [1] 2.8.a

D.3. Transaction Validation Rules - ase:MeterDataMissingNotification

Field Level Validation

Data Element	Validation	Event	Description	Reference
From (ParticipantID)	The Sender has a relevant Role for the NMI.	1932	Participant is not authorised to receive the requested data. The Sender does not have a relevant Role for the NMI recorded in MSATS.	Ref: [1] 4.1.a
RoleAssignments /RoleAssignment/Role	The Participant Role is the Sender's published MSATS Role for the NMI.	1932	Participant is not authorised to request the data. The Participant ID and Role combination cannot be verified as a valid recipient according to MSATS.	Ref: [1] 4.1.a
To (MDPID)	MDP ID = Recipient's MSATS Participant ID.	202	Incorrect MDP ID for Recipient.	Ref: [1] 4.1.a
Transaction@transactionID (RequestID)	The Request ID is unique for the Sender.	1913	New Request received with previously used Request ID.	Ref: [1] 4.1.a
NMI	NMI has an active meter.	1962	NMI has no active meters.	Ref: [1] 4.1.a

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Data Element	Validation	Event	Description	Reference
	NMI is contestable	202	NMI is not contestable	
	NMI exists	1961	NMI abolished.	Ref: [1] 4.1.a
StartDate	Start date is less than 13 months ago.	1960	Partial - The Start Read Date is before the MDP SLR on-line storage requirement.	Ref: [1] 4.1.a, 2.9.a
EndDate	End date is after Start date.	202	Invalid data. Unable to calculate date range as End Date is before Start Date.	Ref: [1] 4.1.a

Process Level Validation

3085

Validation	Event	Description	Reference
MDFF Data available within the requested date range.	1931	No data found for the data range requested.	Ref: [1] 2.9b, 2.9.c
Participant is authorised to receive requested data.	1932	Participant is not authorised to receive requested data. That is, the Participant does not have a relevant Participant Relationship with the NMI.	Ref: [1] 4.1.a, 2.7.a, 2.9.i
Sender is responsible for this NMI for any part of the date range provided.	1933	Participant is not entitled to data for the entire date range requested.	Ref: [1] 2.9.f
	1934	Participant is not entitled to data for part of date range requested.	Ref: [1] 2.9.f
A previous ase:MeterDataMissingNotification with the same *NMI*, *StartDate* and *EndDate* (or a date range encompassing this date range) has been processed for the Sender.	1936	Requested data has already been sent in response to a previous ProvideMeterDataRequest.	Ref: [1] 4.5.d, 2.9.d
Recipient of Request has been the MDP for the whole period.	1963	Recipient was not the MDP for the entire period.	Ref: [1] 2.9.f
Data for the requested period is available on-line.	1946	Requested data is no longer on-line	Ref: [1] 4.1.a, 2.9.a

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Validation	Event	Description	Reference
The MDP is able to provide all the data they have but this does not fully satisfy a ProvideMeterDataRequest.	1966	No further data available.	

D.4. Transaction Validation Rules - ase:MeterDataVerifyRequest

Field Level Validation

Data Element	Validation	Event	Description	Reference
From (ParticipantID)	The Recipient has a relevant Role for the NMI.	1932	Participant is not authorised to receive the requested data. The Sender does not have a relevant Role for the NMI recorded in MSATS.	Ref: [1] 4.2.a, S2.10.e
RoleAssignments/RoleAssignment/Role (ParticipantRole)	The Participant Role is the Sender's published MSATS Role for the NMI.	1932	Participant is not authorised to request the data. The Participant ID and Role combination cannot be verified as a valid recipient according to MSATS.	Ref: [1] 4.2.a, 2.10.e
To (MDPID)	MDP ID = Recipient's MSATS Participant ID.	202	Incorrect MDP ID for Recipient.	Ref: [1] 4.1.a
Transaction@transactionID (RequestID)	The Request ID unique for the Sender.	1913	New Request received with previously used Request ID.	Ref: [1] 4.2.a
NMI	NMI has an active meter.	1962	NMI has no active meters.	Ref: [1] 4.2.a

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Data Element	Validation	Event	Description	Reference
	NMI exists	1961	NMI is extinct	Ref: [1] 4.1.a
	NMI exists	1961	NMI abolished.	Ref: [1] 4.1.a
NMIConfiguration	NMI Configuration provided. Investigation Code and Investigation Description indicate that NMI Configuration must be provided.	201	Data missing. Details provided in *Explanation.*	Ref: [1] 4.2.a, 2.10.b
MeterRegister/Meter/SerialNumber (MeterSerial)	Meter Serial Number provided. Investigation Code and Investigation Description indicate that Meter Serial Number must be provided.	201	Data missing. Details provided in *Explanation.*	Ref: [1] 4.2.a, 2.10.b
DataStreams/DataStream/Suffix (NMISuffix)	NMI Suffix provided. Investigation Code and Investigation Description indicate that NMI Suffix must be provided.	1958	Insufficient information provided to action Request.	Ref: [1] 4.2.a, 2.10.b
		201	Data missing. Details provided in *Explanation.*	
Current/Read (CurrentRead)	Current Read provided. Investigation Code and Investigation Description indicate that Current Read must be provided.	1958	Insufficient information provided to action Request.	Ref: [1] 4.2.a, 2.10.b
		201	Data missing. Details provided in *Explanation.*	
*Current/Read (*CurrentRead*)*	Current Read and NMI Suffix provided.	201	Data missing. Details provided in Explanation. If Current Read is provided, the NMI Suffix must be provided.	Ref: [1] 4.2.a
RequestPeriod/BeginDate (StartReadDate)	Start date is less than 13 months ago.	1960	Partial - The Start Read Date is before the MDP SLR on-line storage requirement.	Ref: [1] 4.2.a, 2.9.a, 2.10.a
RequestPeriod/EndDate (EndReadDate)	End date is after Start date.	202	Invalid data. Unable to calculate date range as End Date is before Start Date.	Ref: [1] 4.2.a

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Process Level Validation

Validation	Event	Description	Reference
MDFF Data available within the requested date range.	1931	No data found for the data range requested.	Ref: [1] 2.10.d
Participant is authorised to receive requested data.	1932	Participant is not authorised to receive requested data. That is, the Participant does not have a relevant Participant Relationship with the NMI.	Ref: [1] 2.10.e
Sender is responsible for this NMI for any part of the date range provided.	1933	Participant is not entitled to data for the entire date range requested.	Ref: [1] 2.10.e
	1934	Participant is not entitled to data for part date range requested.	Ref: [1] 2.10.e
ase:InvestigationCode = "Scheduled Reading Required" and time allowed for providing a read since the last scheduled read has elapsed.	1948	NSRD not yet passed	Ref: [1] 2.10.f
All data elements necessary to complete the request are provided, given the *ase:InvestigationCode*.	1958	Insufficient information provided to complete request.	Ref: [1] 2.10.b
Investigation of the Request has resulted in a change to the MDFF Data.	1959	No MDFF will be sent as a result of this verify request.	Ref: [1] 2.10
Recipient of Request has been MDP for the whole period.	1963	Recipient was not the MDP for the entire period.	Ref: [1] 2.10.f
The ase:MeterDataVerifyRequest is identical to a previous ase:MeterDataVerifyRequest (ie same NMI, date range and Investigation Code). If true, reject.	1965	Request matches an existing Request. The *RequestID* of the related Request is provided in *Explanation*.	
Data for the requested period is available on-line.	1946	Requested data is no longer on-line.	Ref: [1] 4.2.a, 2.10.a

Deleted: The Site's NMI Standing Data has been queried using an ase:MeterDataVerifyRequest before the time allowed to update MSATS has expired. If true, reject.

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Validation	Event	Description	Reference
The Request is not understandable. If true, reject.	1969	Invalid Request.	

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D.5. Transaction Validation Rules – ase:ServiceOrderRequest

Field Level Validation

Note: For mandatory field and formatting validation, refer to section aseXML Transaction Implementation and Data Elements Generic Events Usage.

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Data Element	Validation	Event	Description	Reference
ServiceOrder/Address	If provided, there is no NMI allocated for this address.	1918	NMI already allocated for this address.	Ref: [3] 4.4.1
	If provided, is a valid address.	202	Invalid Data. Details provided in *Explanation*.	
WorkType	Valid type supported by the Service Provider.	1915	Service Provider does not support this ServiceOrderType.	

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Data Element	Validation	Event	Description	Reference
	If *ase:WorkType* = De-energisation or Meter Reconfiguration or Miscellaneous or Supply Abolishment, the Sender is the current FRMP for the NMI.	1945	Retailer not permitted to raise this service order type.	Ref: [3] 2.2.1.b
	If *ase:WorkType* = De-energisation, check whether the site is already energised.	1944	Rejection – site already de-energised.	Ref: [3] 2.12.7c
	If *ase:WorkType* = Meter Investigation, the Sender is the current FRMP or a previous FRMP for the NMI.	1945	Retailer not permitted to raise this service order type.	Ref: [3] 2.2.1.c
	If *ase:WorkType* = Allocate NMI, NMI is not already allocated for the given site.	1918	NMI already allocated for this address.	S Ref: [3] 2.12.4f
	If *ase:WorkType* = New Connection or Adds and Alts, the requested metering configuration is valid.	1919	Requested metering configuration is incorrect.	Ref: [3] 2.12.5c, 2.12.10a
WorkType@workSubType	The given *ase:WorkType* / *ase:@workSubType* combination is valid for the Service Provider..	1915	Service Provider does not support this ServiceOrderSubType.	
	Valid *ase:@workSubType* for the *ase:WorkType* and supported by the Service Provider..	1910	ServiceOrderSubType does not match ServiceOrderType.	
	If *ase:WorkType* = Special Read and *SubType* is blank or is Final Read, the Sender is either the current FRMP or a prospective FRMP for the NMI.	1945	Retailer not permitted to raise this service order type. Where it is **not** a Check Read, the Retailer must be the current or propective FRMP.	Ref: [3], 2.2.1.b
	If *ase:WorkType* = Special Read and *SubType* = Check Read, the Sender is either the current FRMP for the NMI.	1945	Retailer not permitted to raise this service order type.	Ref: [3], 2.2.1.c

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Data Element	Validation	Event	Description	Reference
MeterSerialNumber	If provided, is a valid meter serial number for the NMI and this is NOT a high priority Service Order.	202	Invalid Data. Details provided in explanation.	Ref: [3] 2.12.1g
ServiceOrder/ServiceOrderNumber	If *ase:@actionType* = New, is unique for the Retailer/Service Provider combination.	1914	New request with previously used RetServiceOrder.	
	If *ase:@actionType* = Cancel, is a previous (valid and accepted) value.	1937	Unable To Cancel, Original Request Not Received.	
	If *ase:@actionType* = Cancel, is a duplicate of a previous cancel Request.	1938	Previous cancellation already processed.	
	If *ase:@actionType* = Cancel, Service Provider is able to cancel work.	1917	Unable to cancel ServiceOrderRequest. Requested work has commenced or is completed.	
	If *ase:@actionType* = New or Replace, must be a new (unused) number for the sending participant.	1914	New request with previously used RetServiceOrder.	
ScheduledDate	If provided, date is less than 100 calendar days in the future.	1954	ScheduledDate greater than 100 calendar days in the future.	Ref: [3] 2.6.2e
	Is before *ase:Transaction@transactionDate*.	202	Invalid Data. Scheduled Date cannot be in the past.	Ref: [3] 2.6.2a
Reference	If provided, is a valid appointment reference the Service Provider has for the Request.	1916	Invalid AppointmentReference.	Ref: [3] 2.3a
SpecialInstructions	If *ase:actionType* = Replace, includes the *RetServiceOrder* value of the original Request.	1955	RetServiceOrder value of the original Request that was rejected is not in SpecialInstructions.	Ref: [3] 2.2.1i

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3100 **Process Level Validation**

Validation	Event	Description	Reference
ServiceOrderRequest requires a meter to be present at the Site and there is a meter installed at the Site.	1941	No meter at site.	
ServiceOrderRequest requires a meter to be present at the Site and there is a meter installed at the Site.	202	Meter not linked to a Metering Point	
Where multiple service orders are provided by different Retailers, the second ServiceOrderRequest received is of the same type AND has a an earlier *ase:ScheduledDate* than the first Request.	1956	Request submitted by another Retailer.	Ref: [3] 2.12.14.4.b.1
In a multiple service order from the same Retailer scenario, the combination of Requests is valid.	1952	Invalid Multiple Service Order Combination.	Ref: [3] 2.12.14.6.c
In a multiple service order from the same Retailer scenario, the combination of Requests is valid.	202	Service order type not allowed. Other service order types already open	Ref: [3] 2.12.14.6.c
Scenario: The Service Provider is unable to comply with the regulated or required timeframe, an alternative date is agreed with the Retailer, and the alternative date is provided in the *BusinessAcceptance/Rejection*. If true, send Event. Note: This is an acceptance of the original Request, with a *Status* of Warning.	1912	Unable to perform the work within the required timeframe, alternative date provided in *Explanation*.	Ref: [3] 2.6.3f
ServiceTime is populated with “Non-Business Hours” and the Request can be actioned after hours. Note: This is an acceptance of the original Request, with a *Status* of Warning.	1940	Unable to perform the work after hours, alternative time provided in *Explanation*.	Ref: [3] 2.12.1, 2.12.6c
Request is covered by the Service Provider’s regulatory and contractual obligations.	1957	The request falls outside the Service Provider’s regulatory and contractual obligations.	

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Validation	Event	Description	Reference
The paperwork required for the completion of a ServiceOrderRequest is provided – eg a CES is required for a New Connection, or a Special Read where the meter has been disconnected for more than one year, or the de-energisation for non-payment notice in NSW. Note: This is an acceptance to the original Request, with a *Status* of Warning.	1953	Documentation required, see *Explanation* for details.	
Service Provider has rejected the "New" ServiceOrderRequest and then receives a "Cancel" ServiceOrderRequest. If so, reject the "Cancel" ServiceOrderRequest.	1964	Unable to Cancel, Original Request Rejected.	
"Replace" ServiceOrderRequest sent and the prior agreement of the Service Provider was obtained.	1967	"Replace" ServiceOrderRequest sent without the prior agreement of the Receiver.	Ref: [3] 2.2.1.i.1
Cancellation received for a ServiceOrderRequest that has not yet received; Rejected the "Cancel" ServiceOrderRequest. The missing ServiceOrderRequest arrives. If so reject the ServiceOrderRequest.	1938	Previous Cancellation Already Processed	Ref: [3] 2.10.c.3

D.6. Transaction Validation Rules – ase:ServiceOrderResponse

Field Level Validation

3105 Note: For mandatory field and formatting validation, refer to section aseXML Transaction Implementation and Data Elements Generic Events Usage.

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Data Element	Validation	Event	Description	Reference
ServiceOrder/ServiceOrder Number	The *ServiceOrderNumber* is an ID generated by the Recipient.	206	Recipient did not initiate Request	Ref: [3] 4.2

Data Element	Validation	Event	Description	Reference
NotificationData/SpecialNotes	Data element is provided and *ExceptionCode* has a value of "Other", "Service Provider Cancellation", or "Documentation Not Provided".	201	Data missing. Special Notes must be provided for these cases.	Ref: [3] 2.12.3, 4.2
	Data element is provided and *ServiceOrderStatus* is "Partially Completed".			
ExceptionCode	Data element is provided and *ServiceOrderStatus* is "Not Completed" or "Partially Completed".	201	Data missing. An Exception Code must be provided for these situations.	Ref: [3] 4.2
ActualDateTime	The *ActualDateTime* is before the date and time the ServiceOrderResponse was sent.	1921	*ActualDateAndTime* is after the date and time the ServiceOrderResponse was sent.	
Product/Code	At least one *ProductCode* data element is provided.	1950	Mandatory field not populated. Missing field(s) listed in *Explanation*.	Ref: [3] 2.6.5 b, 4.2

Process Level Validation

Validation	Event	Description	Reference
The *NMI* is provided, except where the *WorkType* of the Request = "Allocate NMI" or "New Connection" and the *ServiceOrderStatus* = "Not Completed".	201	Data Missing. The NMI must be provided for all Responses except Responses to Allocate NMI or New Connection Requests with a *ServiceOrderStatus* of "Not Completed".	Ref: [3] 4.2

Validation	Event	Description	Reference
Scenario: The Service Provider has previously accepted a Cancellation Request for a ServiceOrderRequest, then sends a ServiceOrderResponse with a *ServiceOrderStatus* of "Completed" or "Partially Completed".	1999	Contact the Service Provider to discuss the situation.	
ProductCode matches the requested work.	1951	Product Code does not match requested work.	Ref: [3] 2.6.5 d.
Invalid combination of Exception Code, Service Order Type, Service Order SubType, and Service Order Status.	202	Invalid Data. Add details in Explanation.	Ref: [3]
ServiceOrderStatus of "Partially Completed" is provided for a Special Read ServiceOrderRequest.	202	Invalid Data. A *ServiceOrderStatus* of "Partially Completed" is not valid for a Special Read ServiceOrderRequest.	Ref: [3] 2.12.9 b.

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Deleted: The *ProductCode* "Cost TBA" is provided and the *WorkType* of the Request **is not** "Re-energisation", "De-energisation" or "Special Read". If true, send Event.

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Deleted: Invalid Data. The *ProductCode* "Cost TBA" must not be used for Re-energisation, De-energisation or Special Read ServiceOrderRequests.

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D.7. Transaction Validation Rules – ase:ServiceOrderResponse

(used as ServiceOrderAppointmentNotification)

Field Level Validation

Note: For mandatory field and formatting validation, refer to section 4.2.3.8**:** aseXML Transaction Implementation and Data Elements. D.1, Generic Events Usage section.

Data Element	Validation	Event	Description	Reference
ServiceOrder/ServiceOrder Number	The *ServiceOrderNumber* is an ID generated by the Recipient.	206	Recipient did not initiate Request	Ref: [3] 4.3

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	The *ServiceOrderNumber* is for a New Connection ServiceOrderRequest raised by the Recipient.	1922	Appointment Notification does not match a ServiceOrderRequest.	Ref: [3] 4.3
ServiceOrder/NMI and *ServiceOrder/Address*	Either is provided.	201	Data Missing. The Address must be provided if the NMI is not.	Ref: [3] 4.3

Process Level Validation

Validation	Event	Description	Reference
Site is not located in SA or ACT.	202	Invalid Data. Appointment Notification applies to SA and ACT only.	Ref: [3] 2.2 b.

D.8. Transaction Validation Rules - ase:CustomerDetailsRequest

Field Level Validation

Field	Validation	Event	Description	Reference
From	Sender is the DNSP for the Site.	1932	Participant is not authorised to receive the requested data.	Ref: [2] 2.2.3
Comment/CommentLine	Special Notes is provided, and *ase:Reason* = “Other”	201	Missing Data. Special Notes not provided for the Reason=”Other”	Ref: [2] 2.2.3.a

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Process Level Validation

3125

Validation	Event	Description	Reference
Is the only Request received for the NMI today.	1965	Request matches an existing Request. Reject the Request as a Request has already been processed for the NMI.	Ref: [2] 2.2.3.b
The number of Requests received from the DNSP today is above a specific threshold (considered to be a "mass update").	1999	Reject the request as attempt to use Reconciliation process. Miscellaneous error, not covered by the other Event Codes.	Ref: [2] 2.2.3.d

D.9. Transaction Validation Rules - ase:CustomerDetailsNotification

Field Level Validation

Field	Validation	Event	Description	Reference
ToDate	Is provided and *ConcessionCard/@rebateType* = "Health Care Card"	201	Data Missing. If the Rebate Type is a Health Care Card, the To Date must be provided.	Ref: [2] 4.2
CustomerDetail/PersonName or *CustomerDetail/BusinessName*	Either is provided and *ase:MovementType* = "Update", "Move in" or "Reconciliation".	201	Data Missing. If Site is occupied, the customer's name (personal or business) must be provided.	Ref: [2] 4.2
CustomerDetail/PostalAddress	Is provided and *ase:MovementType* = "Update", "Move in" or "Reconciliation".	201	Data Missing. If Site is occupied, the customer's address must be provided.	Ref: [2] 4.2
SensitiveLoad	Value of "None" provided and *ase:MovementType* = "Site Vacant".	202	Invalid Data. The value 'None' field must be provided where the site is vacant.	Ref: [2] 2.2.4.d

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Process Level Validation

Validation	Event	Description	Reference
Site located in SA and medical certificate received in time.	1949	Medical Certificate not received in time	Ref: [2] 2.2.4.b.
Sender is the current FRMP for the provided NMI.	1939	Not Current FRMP	Ref: [2] 2.2.1.a

D.10. Transaction Validation Rules - ase:AmendMeterRouteDetails/AmendSiteAccessDetails

Field Level Validation

Field	Validation	Event	Description	Reference
See Generic Usage section.				

Process Level Validation

Validation	Event	Description	Reference
The NMI is valid	1923	NMI Does not exist	
The Sender is responsible for the provided NMI.	1939	Not Current FRMP.	Ref: [2] 2.2.1.a

Deleted: National

D.11. Transaction Validation Rules - ase:AmendMeterRouteDetails/AmendSiteAddressDetails

Field Level Validation

Field	Validation	Event	Description	Reference
Address	Address provided identical to the address held by the DNSP and recorded in MSATS. If true, reject.	1943	Address not accepted.	

Deleted: *Address*

Deleted: Address provided is identical to the one held by the DNSP. If true, send Event.

Deleted: 1942

Deleted: Address identical to address held by DNSP

Deleted: MSATS correct.

Deleted: *Address*

Deleted: Address provided is invalid and different to the address recorded in both MSATS and by the DNSP. If true, reject.

Deleted: 1947

Deleted: Address not accepted. MSATS to be updated.

Process Level Validation

Validation	Event	Description	Reference
The Sender is responsible for the provided NMI.	1939	Not Current FRMP	Ref: [2] 2.2.1.a

End of Document

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Includes approved aseXML r17 schema details; changes agreed at an industry review workshop held 30-31/3/2005, and B2B Change Requests supported by the B2B WG at its 28 February and 4 April meetings (see footnotes for details).

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Appendix A

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Update SA values in Data Dictionary for *FormDocumentReference*. Line numbering added to assist review. Sorted Data Dictionary in alphabetical order.

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Updated per comments received from industry review.

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4.2.3.3

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Updated as agreed by the BRCG 28 April 2005.

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Anthony Caruana

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Amendments as per approved change requests B2BT10078, B2BT10084, B2BT10087, B2BT10099, B2BT10100

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Amendments as per approved change requests B2BT10082, B2BT10131, B2BT10153, B2BT10156, B2BT10178, B2BT10184, B2BT10186

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Amendments as per Change Requests B2BT10199, B2BT10204 and B2BT10220. B2BT10205 has been added as a Special Note following the Table of Tables.

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Special Note:

As per Change Request B2BT10205 the following must be noted with regards to Stop File Names. This is to correct an error in the B2B Procedure: Technical Delivery Specification. This will be removed from the Build Pack once the procedure has been corrected.

NEMMCO must ensure that the MSATS B2B Handler's flow control management functionality is based on the use of "flow control" files. Two types of flow control files must be used. The first flow control file is named "**B2Bholdinp.stp**" and is located in the Recipient's Outbox. The second flow control file contains the name of the Recipient who is at the warning limit (**ParticipantID_B2Bholdinp.stp**) and must be located in a special directory "stopbox" located at the same level as Inbox and Outbox and repeated for each Participant.

NEMMCO must ensure that when the number of unacknowledged B2B .zip files in a Participant Outbox exceeds a configurable Warning level, the MSATS B2B Handler creates a flow control file of the form **ParticipantID_B2Bholdinp.stp** in the stopbox directory for each B2B Participant. On a subsequent flow control file processing cycle, when the number of unacknowledged B2B .zip files in a Participants Outbox exceeds a configurable High level set by NEMMCO for that Participant, NEMMCO must ensure that the MSATS B2B Handler writes a flow control file (**B2Bholdinp.stp**) to that Participant's Outbox. NEMMCO must ensure that when the number of files subsequently drops below a certain Lower level, the MSATS B2B Handler removes the **B2Bholdinp.stp** flow control file and Message file movements recommence. On a subsequent cycle of the flow control file processing, the MSATS B2B Handler must remove the **ParticipantID_B2Bholdinp.stp** from all Participant stopbox directories if the number of B2B outstanding files is below the lower level. NEMMCO configures the Warning, High and Lower flow control file levels for each Participant.

The **ParticipantID_B2Bholdinp.stp** file acts as a flow control mechanism so that an Initiator can check before lodging if a Participant is at the Warning flow control file limit. The reason that it must be created in a cycle before the **B2Bholdinp.stp** file is so a race condition is avoided. Similarly, it must be removed after the **B2Bholdinp.stp** file. The flow control file processing runs as a separate configurable process, with a frequent cycle. It is important to only do the two types of flow control files in separate cycles to ensure that the stopbox can stop the flow before the Participant is totally stopped. All of this requires careful tuning by both the MSATS B2B Handler and Participant Gateways.

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While the rest of the Build Pack addresses normal National B2B Electricity processing, this section addresses the specific processing requirements for ServiceOrderRequests that are active when the cutover to the new processes occurs. This only affects the use of the *ase:Transaction@initiatingTransactionID* data element in ase:ServiceOrderResponses (used for both ServiceOrderResponses or ServiceOrderAppointmentNotifications).

The other transactions of Tranche 1:

ase:MeterDataNotification,

ase:MeterDataVerifyRequest,

ase:MeterDataMissingNotification,

ase:ServiceOrderRequest,

ase:CustomerDetailsRequest,

ase:CustomerDetailsNotification,

ase:AmendMeterRouteDetails/AmendSiteAccessDetails and

ase:AmendSiteAddressDetails.

do not have any specific processing requirements for transitioning.

Where an ase:ServiceOrderResponse transaction is sent in response to a Service Order Request which was active when the cutover to the new processes occurred and which does not have an aseXML *ase:Transaction@transactionID*, the value of *ase:Transaction@initiatingTransactionID* in the ase:ServiceOrderResponse must be "CUTOVER".

Users of the B2B Browser will be unable to input the "CUTOVER" value in ase:ServiceOrderResponse transactions. However, they will be able to send ase:ServiceOrderResponse with an *ase:Transaction@initiatingTransactionID* value of "CUTOVER" using the B2B Browser by preparing the transaction externally to the B2B Browser and using the B2B Browser to upload the transaction into their In-Box.

The use of the "CUTOVER" value for the *ase:Transaction@initiatingTransactionID* data element is only valid for Responses to those Service Order Requests that were active when the cutover to the new processes occurred. The DNSPs must cease using the "CUTOVER" value once these Requests have been responded to.

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The net Wh data is sent to MSATS on the N1 data stream suffix.

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The second meter (METSER456) has one register that measures:

• Export Wh (E2)

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The Wh data is sent to MSATS on the N2 data stream suffix.

The data was loaded/updated in the MDP system at 6/12/2005 at 01:11:32 and loaded by MSATS on 7/12/2005 at 01:10:22.

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Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

M

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [112] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Responsible Person MSATS Participant ID.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Role

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

C

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

M

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

M

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [113] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Responsible Person MSATS Participant Role.

Value must be “RP”.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Party

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [114] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Meter Data Provider MSATS Participant ID.

Page 119: [115] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 119: [115] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if the DNSP is not the Responsible Person.
Not used for a "Cancel" ase:ServiceOrderRequest.

Page 119: [116] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 119: [116] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if known to the Retailer.
Not used for a "Cancel" ase:ServiceOrderRequest.

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Role

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

C

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 119: [117] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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N

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Meter Data Provider MSATS Participant Role.

Value must be “MDP”.

Page 119: [118] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 119: [118] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if the DNSP is not the Responsible Person.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 119: [119] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 119: [119] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if known to the Retailer.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Party

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [120] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Meter Provider Type B MSATS Participant ID.

Page 120: [121] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [121] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if the DNSP is not the Responsible Person.

Not used for a "Cancel" ase:ServiceOrderRequest.

Page 120: [122] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [122] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if known to the Retailer.

Not used for a "Cancel" ase:ServiceOrderRequest.

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Role

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

C

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [123] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Meter Provider Type B MSATS Participant Role.

Value must be “MPB”.

Page 120: [124] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [124] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if the DNSP is not the Responsible Person.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [125] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [125] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if known to the Retailer.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Party

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [126] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Meter Provider Type C MSATS Participant ID.

Page 120: [127] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [127] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if the DNSP is not the Responsible Person.

Not used for a "Cancel" ase:ServiceOrderRequest.

Page 120: [128] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [128] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if known to the Retailer.

Not used for a "Cancel" ase:ServiceOrderRequest.

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

RoleAssignments/RoleAssignment/Role

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

C

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

N

Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

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Page 120: [129] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Meter Provider Type C MSATS Participant Role.

Value must be “MPC”.

Page 120: [130] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [130] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if the DNSP is not the Responsible Person.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [131] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

O

Page 120: [131] Deleted **Bevan Cole** **22/07/2008 8:44:00 AM**

Mandatory if known to the Retailer.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

MeterRegister/Meter/SerialNumber

Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

O

Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

O

Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

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Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

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Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

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Page 120: [132] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

Mandatory where any work is specific to a given meter and *ase:SerialNumber* is known by Retailer.

Not used for a “Cancel” ase:ServiceOrderRequest or where requested work affects all meters.

Page 120: [133] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

N

Page 120: [133] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

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Page 120: [133] Deleted **Bevan Cole** **22/07/2008 8:46:00 AM**

N

Page 120: [133] Deleted **Bevan Cole** **22/07/2008 8:46:00 AM**

N

Page 120: [133] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

N

Page 120: [133] Deleted **Bevan Cole** **29/07/2008 9:47:00 AM**

N

Page 120: [134] Deleted **N045115** **23/07/2008 2:07:00 PM**

MeterRegister/Meter/InstallationTypeCode

Page 120: [134] Deleted **N045115** **23/07/2008 2:07:00 PM**

O

Page 120: [134] Deleted **N045115** **23/07/2008 2:07:00 PM**

N

Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

N

Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

N

Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

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Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

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Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

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Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

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Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

O

Page 120: [135] Deleted **N045115** **23/07/2008 2:07:00 PM**

As per

Page 120: [136] Deleted **N045115** **23/07/2008 2:07:00 PM**

List of Codes.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [137] Deleted **N045115** **23/07/2008 2:07:00 PM**

O

Page 120: [137] Deleted **N045115** **23/07/2008 2:07:00 PM**

Mandatory if detail is known by Retailer.

Not used for a “Cancel” ase:ServiceOrderRequest.

Page 120: [138] Deleted **N045115** **23/07/2008 2:02:00 PM**

MeterRegister/Meter/RegisterConfiguration/ Register/NetworkTariffCode	O	N	O	N	N	N	O	O	N	N	O

Page 120: [139] Formatted **Bevan Cole** **22/07/2008 8:57:00 AM**

Body Text 3 Char, Font: (Default) Arial, 10 pt, Font color: Auto

Page 123: [140] Deleted **Administrator** **14/07/2008 2:11:00 PM**

Allocate NMI

Retailer requests a NMI for a site prior to its connection to the network. Customer contracts with a Retailer and the Retailer wants the site to be allocated to the FRMP from the date of creation of the NMI in MSATS.

Sample :

NSW and ACT only

WorkType: Allocate NMI

Subtype: (Not used)

```
<?xml version="1.0" encoding="UTF-8"?>
<ase:aseXML xmlns:ase="urn:aseXML:r17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r17 ../aseXML_r17.xsd">
    <Header>
        <From>AGLE</From>
        <To>INTEGP</To>
        <MessageID>0F9E5ABE-3122-40A5-AE05-C47FFFC77777</MessageID>
        <MessageDate>2005-10-17T09:30:47+10:00</MessageDate>
        <TransactionGroup>SORD</TransactionGroup>
        <Priority>Medium</Priority>
        <Market>NEM</Market>
```

```
    </Header>
    <Transactions>
        <Transaction transactionID="ABCDSOLD663005143f170111111" transactionDate="2005-10-
17T09:30:40+10:00">
            <ServiceOrderRequest version="r17" actionType="New">
                <ServiceOrder>
                    <Address>
                        <AustralianAddress>
                            <StructuredAddress>
                                <House>
                                    <HouseNumber>100</HouseNumber>
                                </House>
                                <Street>
                                    <StreetName>Park</StreetName>
                                    <StreetType>ST</StreetType>
                                </Street>
                            </StructuredAddress>
                            <SuburbOrPlaceOrLocality>Leeton</SuburbOrPlaceOrLocality>
                            <StateOrTerritory>NSW</StateOrTerritory>
                            <PostCode>2705</PostCode>
                            <DeliveryPointIdentifier>12345678</DeliveryPointIdentifier>
                        </AustralianAddress>
                    </Address>
                    <ServiceOrderType xsi:type="ase:ElectricityServiceOrderType" version="r17">
                        <WorkType>Allocate NMI</WorkType>
                    </ServiceOrderType>
                    <ServiceOrderNumber>663005143</ServiceOrderNumber>
                </ServiceOrder>
                <ContactDetail>
                    <PersonName nameType="PRF">
                        <NameTitle>Mr</NameTitle>
                        <GivenName>John</GivenName>
                        <FamilyName>Smith</FamilyName>
                    </PersonName>
                    <PhoneNumber serviceType="Mobile Voice">
                        <Prefix>0411</Prefix>
                        <Number>792805</Number>
                    </PhoneNumber>
                </ContactDetail>
                <RequestData xsi:type="ase:ElectricityServiceOrderDetails">
                    <NMIStandingData xsi:type="ase:ElectricityStandingData">
                        <MasterData>

    <ParentEmbeddedNetworkIdentifier>VPKMCOR</ParentEmbeddedNetworkIdentifier>
                        </MasterData>
                        <RoleAssignments>
                            <RoleAssignment>
                                <Party>INTEGP</Party>
                                <Role>RP</Role>
                            </RoleAssignment>
                            <RoleAssignment>
                                <Party>INTEGM</Party>
                                <Role>MDP</Role>
                            </RoleAssignment>
                            <RoleAssignment>
                                <Party>INTEGMP</Party>
                                <Role>MPB</Role>
                            </RoleAssignment>
                            <RoleAssignment>
                                <Party>INTEGM</Party>
                                <Role>MPC</Role>
                            </RoleAssignment>
                        </RoleAssignments>
                    </NMIStandingData>
                    <CustomerConsultationRequired>false</CustomerConsultationRequired>
                    <AverageDailyLoad>800</AverageDailyLoad>
                    <CustomerType>Industrial</CustomerType>
                    <MaximumDemand>200</MaximumDemand>
                </RequestData>
            </ServiceOrderRequest>
        </Transaction>
```

```
    </Transactions>
</ase:aseXML>
```