

B2B MAPPING TO ASEXML

FORMELY THE ELECTRICITY B2B BUILD PACK

OCTOBER 2013



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AEMO has prepared this B2B Mapping to aseXML (Guide) to provide guidance on the use of the <Enter Software Name> under the National Gas or Electricity Rules (Rules), as at the date of publication.

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Notes

Complies with MSATS release 46.82. aseXML schema version r32.

Documents made obsolete

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

Further Information

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Contents

1 Introduction	1
1.1 Purpose	1
1.2 Document organisation	1
1.2.1 Mapping of business items in business documents	2
1.2.2 Mapping of business items in business signals	2
1.2.3 Alphabetically-sequenced list of aseXML types used in mapping	3
1.3 Ways of using this document	3
1.4 Document Relationships	4
1.5 Useful references	5
1.6 Conventions	5
1.6.1 aseXML Diagrams	5
1.6.2 XPath	5
2 Business Documents	6
2.1 Customer and Site Details Notification Process	6
2.1.1 Common Customer and Site Details Notification Process business items	7
2.1.2 CustomerDetailsNotification business document	8
2.1.3 CustomerDetailsReconciliation business document	11
2.1.4 CustomerDetailsRequest business document	11
2.1.5 SiteAccessNotification business document	12
2.1.6 SiteAddressNotification business document	13
2.2 Meter Data Process	14
2.2.1 Common Meter Data Process business items	16
2.2.2 MeterDataNotification business document	17
2.2.3 ProvideMeterDataRequest business document	19
2.2.4 VerifyMeterDataRequest business document	22
2.3 One Way Notification Process	26
2.3.1 OneWayNotification business document	27
2.4 RoLR Process	28
2.5 Service Order Process	34
2.5.1 ServiceOrderRequest business document	35
2.5.2 ServiceOrderResponse business document	41
2.5.3 ServiceOrderAppointmentNotification business document	44
3 Business Signals	47
3.1 BusinessReceipt business document	49
3.1.1 ase:MessageAcknowledgement	49
3.1.2 ase:Event	51
3.2 BusinessAcceptance/Rejection business document	52
4 B2B e-Hub Implementation	54
4.1 Hub Acknowledgements	54
5 aseXML Types	55
5.1 Type ase:AccessDetail (string ≤ 160 chars.)	55

5.2Type ase:Acknowledgements (complex)	55
5.3Type ase:ActionType (enumerated list)	56
5.4Type ase:Address (complex)	56
5.5Type ase:AmendMeterRouteDetails (complex)	56
5.6Type ase:AppointmentDateTime (complex)	57
5.7Type ase:AppointmentDetail (complex)	58
5.8Type ase:AustralianAddress (complex)	58
5.9Type ase:AustralianAddressLine (string, ≤ 80 chars.)	60
5.10Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.)	60
5.11Type ase:AustralianDeliveryPointIdentifier (integer 10000000-99999999 incl.)	60
5.12Type ase:AustralianFlatOrUnitNumber (string with pattern)	60
5.13Type ase:AustralianFlatOrUnitType (enumerated list)	61
5.14Type ase:AustralianFloorOrLevelNumber (string with pattern)	61
5.15Type ase:AustralianFloorOrLevelType (enumerated list)	61
5.16Type ase:AustralianHouseNumber (integer, 0-99999 incl.)	62
5.17Type ase:AustralianHouseNumberSuffix (string with pattern)	62
5.18Type ase:AustralianLocationDescriptor (string with pattern)	62
5.19Type ase:AustralianLotNumber (string with pattern)	62
5.20Type ase:AustralianPartialAddress (complex)	63
5.21Type ase:AustralianPhoneNumber (complex)	64
5.22Type ase:AustralianPostalDeliveryNumberPrefix (string with pattern)	64
5.23Type ase:AustralianPostalDeliveryNumberSuffix (string with pattern)	65
5.24Type ase:AustralianPostalDeliveryNumberValue (integer, 0-99999 incl.)	65
5.25Type ase:AustralianPostalDeliveryType (enumerated list)	65
5.26Type ase:AustralianPostCode (string with pattern)	66
5.27Type ase:AustralianStateOrTerritory (enumerated list)	66
5.28Type ase:AustralianStreetName (string with pattern)	66
5.29Type ase:AustralianStreetSuffix (enumerated list)	66
5.30Type ase:AustralianStreetType (enumerated list)	67
5.31Type ase:AustralianStructuredAddressComponents (complex)	68
5.32Type ase:AustralianStructuredAddressPartialComponents (complex)	70
5.33Type ase:AustralianSuburbOrPlaceOrLocality (string ≤ 46 chars.)	73
5.34Type ase:AustralianTelephoneNumber (string ≤ 15 chars.)	73
5.35Type ase:AustralianTelephonePrefix (string ≤ 4 chars.)	73
5.36Type ase:AustralianTelephoneServiceComment (string ≤ 40 chars.)	73
5.37Type ase:AustralianTelephoneServiceType (enumerated list)	74
5.38Type ase:AveragedDailyLoad (integer)	74
5.39Type ase:BusinessName (complex)	74
5.40Type ase:BusinessNameBase (string ≤ 200 chars.)	75

5.41Type ase:BusinessNameTypeCode (enumerated list)	75
5.42Type ase:ConcessionCard (complex)	75
5.43Type ase:CommentLine (string ≤ 80 chars.)	76
5.44Type ase:CSVDataWithName (complex)	76
5.45Type ase:CSVRequestFormat (complex)	76
5.46Type ase:CustomerData (complex)	77
5.47Type ase:CustomerDetail (complex)	77
5.48Type ase:CustomerDetailsNotification (complex)	78
5.49Type ase:CustomerDetailsRequest (complex)	79
5.50Type ase:CustomerFundedMeter (boolean)	79
5.51Type ase:CustomerType (enumerated list)	80
5.52Type ase:DataStreamType (enumerated list)	80
5.53Type ase:DirectionIndicator (enumerated list)	80
5.54Type ase:DisplayType (string 1–20 chars.)	80
5.55Type ase:DistanceFromSubstation (decimal, format = 9999.999)	81
5.56Type ase:DistributionLossFactorCode (string ≤ 4 chars.)	81
5.57Type ase:DocumentReferenceType (complex)	81
5.58Type ase:ElectricityDataStream (complex)	82
5.59Type ase:ElectricityDataStreams (complex)	82
5.60Type ase:ElectricityMasterStandingData (complex)	83
5.61Type ase:ElectricityMeter (complex)	84
5.62Type ase:ElectricityMeterReadData (complex)	87
5.63Type ase:ElectricityMeterRegisterConfiguration (complex)	87
5.64Type ase:ElectricityMeterRegisterDetail (complex)	88
5.65Type ase:ElectricityMeters (complex)	89
5.66Type ase:ElectricityProvideMeterRequestData (complex)	90
5.67Type ase:ElectricityServiceOrderDetails (complex)	90
5.68Type ase:ElectricityServiceOrderNotificationData (complex)	92
5.69Type ase:ElectricityServiceOrderType (complex)	93
5.70Type ase:ElectricityStandingData (complex)	94
5.71Type ase:ElectricityVerifyMeterRequestData (complex)	95
5.72Type ase:EmbeddedNetworkIdentifier (string ≤ 10 chars.)	96
5.73Type ase:EMSD_CustomerClassificationCode (string 1-20 chars.)	96
5.74Type ase:EMSD_CustomerThresholdCode (string 1-20 chars.)	96
5.75Type ase:EnergyMarket (enumerated list)	97
5.76Type ase:Envelope (complex)	97
5.77Type ase:Event (complex)	98
5.78Type ase:EventClass (enumerated)	99
5.79Type ase:EventCode (complex)	99

5.80Type ase:EventCodeBase (nonNegativeInteger)	100
5.81Type ase:EventContext (string ≤ 80 chars.)	100
5.82Type ase:EventKeyInfo (string ≤ 80 chars.)	100
5.83Type ase:EventSeverity (enumerated)	101
5.84Type ase:EventSupportedVersions (complex)	101
5.85Type ase:FeederClass (string 1-15 chars.)	101
5.86Type ase:GasMeterDogCode (enumerated)	102
5.87Type ase:GasMeterPosition (enumerated)	102
5.88Type ase:HazardCode (string)	102
5.89Type ase:HazardDescription (string ≤ 80 chars.)	103
5.90Type ase:Header (complex)	103
5.91Type ase:HighLowConsumption (complex)	104
5.92Type ase:IndexInvestigationCode (enumerated)	104
5.93Type ase:InstallationType (enumerated list)	104
5.94Type ase:InternationalAddress (complex)	105
5.95Type ase:InternationalAddressLine (string, ≤ 80 chars.)	106
5.96Type ase:InternationalCountryCode (string, patterned)	106
5.97Type ase:InternationalPostCode (string, patterned)	106
5.98Type ase:JurisdictionCode (string ≤ 3 chars.)	107
5.99Type ase:KeyCode (string 1–8 chars.)	107
5.100Type ase:License (complex)	107
5.101Type ase:MessageAcknowledgement (complex)	108
5.102Type ase:MessageIdentifier (string, 1-36 chars.)	109
5.103Type ase:MessageSecurityContext (string, ≤ 15 chars.)	110
5.104Type ase:MessageStatus (enumerated)	110
5.105Type ase:MeterAdditionalSiteInformation (string ≤ 100 chars.)	110
5.106Type ase:MeterAssetManagementPlan (string ≤ 50 chars.)	110
5.107Type ase:MeterCalibrationTables (string ≤ 50 chars.)	111
5.108Type ase:MeterCommunicationsEquipmentType (string ≤ 4 chars.)	111
5.109Type ase:MeterCommunicationsProtocol (string ≤ 50 chars.)	111
5.110Type ase:MeterConsumptionType (enumerated)	111
5.111Type ase:MeterControlledLoad (string ≤ 100 chars.)	112
5.112Type ase:MeterDataConversion (string ≤ 50 chars.)	112
5.113Type ase:MeterDataMissingNotification (complex)	112
5.114Type ase:MeterDataNotification (complex)	113
5.115Type ase:MeterDataValidations (string ≤ 50 chars.)	116
5.116Type ase:MeterDataVerifyRequest (complex)	116
5.117Type ase:MeterDemand (integer, 8 digits)	117
5.118Type ase:MeterDialFormat (string ≤ 50 chars.)	117

5.119Type ase:MeterEstimationInstructions (string ≤ 50 chars.)	117
5.120Type ase:MeterHazard (string ≤ 12 chars.)	117
5.121Type ase:MeteringType (enumerated list)	118
5.122Type ase:MeterInstallationTypeCode (string ≤ 8 chars.)	118
5.123Type ase:MeterInstallationTypeDescription (string ≤ 50 chars.)	118
5.124Type ase:MeterLocation (string ≤ 50 chars.)	118
5.125Type ase:MeterManufacturer (string ≤ 15 chars.)	119
5.126Type ase:MeterMeasurementType (string ≤ 4 chars.)	119
5.127Type ase:MeterModel (string ≤ 12 chars.)	119
5.128Type ase:MeterMultiplier (decimal)	119
5.129Type ase:MeterNetworkAdditionalInformation (string)	120
5.130Type ase:MeterPassword (string ≤ 20 chars.)	120
5.131Type ase:MeterPoint (string ≤ 2 chars.)	120
5.132Type ase:MeterProgram (string ≤ 30 chars.)	120
5.133Type ase:MeterReadingGroup (complex)	121
5.134Type ase:MeterReadingGroupId (string, ≥ 1 char.)	121
5.135Type ase:MeterReadingGroupType (enumerated)	121
5.136Type ase:MeterReadTypeCode (string ≤ 4 chars.)	122
5.137Type ase:MeterRegisterIdentifier (string ≤ 10 chars.)	122
5.138Type ase:MeterRegisterStatusCode (enumerated)	122
5.139Type ase:MeterRemotePhoneNumber (string ≤ 12 chars.)	122
5.140Type ase:MeterRoute (string ≤ 12 chars.)	123
5.141Type ase:MeterSerialNumber (string ≤ 12 chars.)	123
5.142Type ase:MeterStatusCode (enumerated list)	123
5.143Type ase:MeterTestCalibrationProgram (string ≤ 50 chars.)	123
5.144Type ase:MeterTestPerformedBy (string ≤ 20 chars.)	124
5.145Type ase:MeterTestResultAccuracy (decimal, format 999.99999)	124
5.146Type ase:MeterTestResultNotes (string ≤ 50 chars.)	124
5.147Type ase:MeterTimeOfDay (string ≤ 10 chars.)	124
5.148Type ase:MeterTransformerLocation (string ≤ 30 chars.)	125
5.149Type ase:MeterTransformerRatio (string ≤ 20 chars.)	125
5.150Type ase:MeterTransformerType (string ≤ 20 chars.)	125
5.151Type ase:MeterUnitOfMeasure (string ≤ 5 chars.)	125
5.152Type ase:MeterUse (string ≤ 10 chars.)	126
5.153Type ase:MeterUserAccessRights (string ≤ 50 chars.)	126
5.154Type ase:MethodSent (enumerated list)	126
5.155Type ase:MovementType (enumerated list)	126
5.156Type ase:NetworkTariffCode (string ≤ 10 chars.)	127
5.157Type ase:NMI (complex)	127

5.158Type ase:NMIBase (string ≤ 10 chars.)	127
5.159Type ase:NMIChecksum (integer, 0–9)	128
5.160Type ase:NMIClassificationCode (string ≤ 8 chars.)	128
5.161Type ase:NMIConfigurationType (complex)	128
5.162Type ase:NMIDataStreamSuffix (string = 2 chars.)	129
5.163(abstract) Type ase:NMIStandingData (complex)	129
5.164Type ase:NMIStatusCode (string = 1 char.)	129
5.165(abstract) Type ase:NMITransactionBase (complex)	130
5.166Type ase:NonZeroLengthString (string ≥ 1 char.)	130
5.167Type ase:OneWayNotification (complex)	131
5.168Type ase:OpenPeriod (complex)	131
5.169Type ase:PartyIdentifier (complex)	132
5.170Type ase:PersonName (complex)	133
5.171Type ase:PersonNameFamily (string ≤ 40 chars.)	133
5.172Type ase:PersonNameGiven (string ≤ 40 chars.)	134
5.173Type ase:PersonNameSuffix (string ≤ 12 chars.)	134
5.174Type ase:PersonNameTitle (string ≤ 12 chars.)	134
5.175Type ase:PersonNameType (enumerated list)	134
5.176Type ase:PoleNumber (string 1-40 chars.)	135
5.177Type ase:Priority (enumerated)	135
5.178Type ase:Product (complex)	135
5.179Type ase:ProfileName (string ≤ 10 chars.)	136
5.180Type ase:RebateType (enumerated list)	136
5.181Type ase:ReceiptIdentifier (string, 1-36 chars.)	136
5.182Type ase:RecordCount (integer, 10 significant digits)	137
5.183Type ase:ReleaseIdentifier (string with pattern)	137
5.184Type ase:RequestReason (enumerated)	137
5.185Type ase:ResponseType (enumerated)	137
5.186Type ase:RoleAssignment (complex)	138
5.187Type ase:RoleAssignments (complex)	138
5.188Type ase:RoleIdentifier (string, ≤ 4 chars.)	138
5.189Type ase:SafetyCertificateType (complex)	139
5.190Type ase:SensitiveLoadType (enumerated list)	139
5.191Type ase:ServiceOrderHeader (complex)	139
5.192(abstract) Type ase:ServiceOrderNotificationData (complex)	140
5.193Type ase:ServiceOrderRequest (complex)	141
5.194(abstract) Type ase:ServiceOrderRequestData (complex)	142
5.195Type ase:ServiceOrderResponse (complex)	142
5.196Type ase:ServiceOrderStatus (enumerated list)	143

5.197Type ase:ServiceOrderSubType (enumerated list)	144
5.198Type ase:ServiceOrderType (enumerated list)	144
5.199(abstract) Type ase:ServiceOrderTypeBase (complex)	144
5.200Type ase:ServicePoint (complex)	145
5.201Type ase:ServiceTimeType (enumerated list)	145
5.202Type ase:ShortUniquelIdentifier (string 1-15 chars.)	146
5.203Type ase:SiteAccessDetails (complex)	146
5.204Type ase:SiteAddressDetails (complex)	146
5.205Type ase:SiteHazard (complex)	147
5.206Type ase:SORDResponseCode (enumerated list)	147
5.207Type ase:SpecialComments (complex)	148
5.208Type ase:SupplyPhase (enumerated list)	148
5.209Type ase:Transaction (complex)	148
5.210Type ase:TransactionAcknowledgement (complex)	151
5.211Type ase:TransactionGroup (enumerated)	152
5.212Type ase:TransactionIdentifier (string, 1-36 chars.)	153
5.213Type ase:TransactionPriority (enumerated)	154
5.214Type ase:Transactions (complex)	154
5.215Type ase:TransactionStatus (enumerated)	154
5.216Type ase:TransmissionNodeIdentifier (string ≤ 4 chars.)	155
5.217Type ase:UniquelIdentifier (string, 1-36 chars.)	155
5.218Type ase:VoltageType (string 1-10 chars.)	155
5.219Type ase:YesNo (enumerated list)	156
6 aseXML message	157

Abbreviations and Symbols

These abbreviations, symbols, and special terms assist the reader's understanding of the terms used in this document. For definitions of these terms, the reader should always refer to the applicable market Rules.

There are no new abbreviations or terms introduced by this guide in addition to those in the source and reference documents (refer to the list in *Document Relationships* (§1.4 on page 4)). For convenience, some are cross-referenced below.

Abbreviation	Abbreviation Explanation
B2B procedure	One of the collection of B2B Procedures listed in <i>Document Relationships</i> (§1.4 on page 4)
Business document	"Business Documents ... are mapped onto aseXML Transactions ..." (see [B2BTDS2.1 d])
Business item	Any component of a business document or business signal
Business signal	"... Business Signals are mapped onto ... Acknowledgements" (see [B2BTDS2.1 d])
CSV	Comma-separated values; a file format for exchanging data using commas as delimiters. For help with the CSV format, see the "AEMO CSV Data Format Standard".
Procedure	Here, usually one of the collection of B2B Procedures listed in <i>Document Relationships</i> (§1.4 on page 4), but can apply to all procedures under the Rules.
Rules	National Electricity Rules
Transaction	"Business Documents ... are mapped onto aseXML Transactions ..." (see [B2BTDS2.1 d])
XPath	See <i>XPath</i> (§1.6.2 on page 5)

1 Introduction

The B2B procedures say what the energy businesses need to achieve and the aseXML is a key part of the mechanism to deliver a solution to those business needs.

This document, “B2B Mapping to aseXML”, is derived from the B2B procedures, the aseXML guidelines and the published aseXML release appropriate for the business context (as modified from time to time). If there are any discrepancies between this document and its sources, then the sources prevail.

1.1 Purpose

The purpose of this document is to map the business documents, business signals and business items to their implementations. The implementation is to aseXML, sometimes including CSV payloads.

The prime driver for the creation of this document is to satisfy various references in the B2B procedures, the aseXML guidelines and the aseXML releases to:

- “Business Document Mapping to aseXML”.
- “Business Document/Signal Mapping to aseXML”.
- “Participant Build Pack 1 - B2B System Interface Definitions”.
- “Build Pack: A document that details the specific aseXML interfaces to be used in the implementation of B2B transactions”.
- Or similar names.

1.2 Document organisation

This document is a reference document, rather than a teaching document or a document to be read from beginning to end. The arrangement has the specific intention of being an aid to implementation of the B2B procedures.

The direction of the mapping is from the business items (documents, signals, items, etc.) to the aseXML nodes (elements and attributes), in a top-down manner. If an item in an aseXML transaction is mandatory, then it must be supplied. If an item in an aseXML transaction is optional, the business procedure is the authority for whether or not the item is required for the business transaction.

This document starts with the mapping of the business documents and their items to aseXML nodes (elements and attributes), then follows with a similar level of detail for the business signals. The rest of the document is the supporting detail, including all the aseXML types used, including those indirectly referenced.

References to the source documents are included frequently in this document. The references are abbreviated using the document abbreviation followed by the relevant section identification, all in square brackets. The document abbreviations are listed in *Document Relationships* (§1.4 on page 4). For example, [B2BCSDNP 1.10.b] refers to section 1.10 b in “B2B Procedure: Customer And Site Details Notification Process”.

1.2.1 Mapping of business items in business documents

The main mapping sections of this document (§2 Business Documents) drill successively lower in greater detail based on the following general hierarchy:

1. Name of the B2B procedure (at Heading 2 level), with:
 - a. The list of the business documents in that process.
 - b. The corresponding aseXML transaction node and version.
 - c. Diagrams of the aseXML schema for the aseXML transactions.
2. Business document (at Heading 3 level) or a common section for multiple business documents.

Each common section has:

- a. References to sections in the procedure relevant for the set of business documents.
- b. An alphabetically-sequenced list of all business items identified in the references cross-referenced to the aseXML node, type and restrictions.

Each business document section has:

- a. References to sections in the procedure relevant for the business document.
- b. Records of the corresponding aseXML implementation.
- c. Diagrams of the aseXML schema for the aseXML nodes.
- d. An alphabetically-sequenced list of all business items identified in the references, cross-referenced to the aseXML node, type and restrictions.

Each list of business items includes:

- All indirectly referenced aseXML nodes (that is, each of the elements in the path to nodes mapped from a business item), so these may not have an identifying business item.
- Any versioning in any of the XPath in the list.
- Specific reference to each need to use “xsi:type” for implementation complying to the relevant B2B procedure.
- Hyperlinks from each aseXML type to details for that type.

1.2.2 Mapping of business items in business signals

The two business signals (BusinessReceipt and BusinessAcceptance/Rejection business documents) are described in a similar way to the main business documents.

1.2.3 Alphabetically-sequenced list of aseXML types used in mapping

1. aseXML type details (Heading 2 level):
 - a. Documentation extracted from the schema, without editorial corrections.
 - b. Diagram of the aseXML type (from XMLSpy on the schema).
 - c. An alphabetically-sequenced list of the aseXML items in the aseXML type.
 - i. Restrictions applied at the aseXML node level, if any.
 - ii. aseXML type implementing the node.

1.3 Ways of using this document

To implement, or refer to, a business document, start with the section describing that business document. For example, for the *ServiceOrderRequest* business document as described in the Service Order Process procedure, refer to *ServiceOrderRequest business document* (§2.5.1 on page 35).

To implement, or refer to, all business documents in a procedure, start with the section named after the procedure. For example, for the Meter Data Process procedure, refer to *Meter Data Process* (§2.2 on page 14).

To find a particular business item used in one of the procedures, either:

- Use a search tool to find the item, especially looking for the item in the first column of the tables in each business document.
- Go to the section with the name of the procedure [the procedure names are in alphabetical sequence at heading level 2 in *Business Documents* (§2 on page 6)] and check the table in each level 3 section [the business item names are also in alphabetical sequence].

To find a business item knowing the aseXML name, use a search tool to find the aseXML name, especially looking for the item in the second column of the tables in each business document.

To follow the aseXML hierarchy, seeing the full description of each element at each level, start at the /aseXML description in *aseXML message* (§6 on page 157), then choose a branch by clicking on the hyperlink to the aseXML type (in the third column) unless the node is a basic XML Schema node type.

To see the details for an aseXML type, either:

- Search the current aseXML schema for the definition of the type (the schema is the primary reference).
- Refer to the alphabetically-sequenced list of aseXML types in *aseXML Types* (§5 on page 55), where the schema definition has been re-formatted into a more human-readable form.

1.4 Document Relationships

This document is based upon the following primary documents (each with its abbreviation used within this document, in square brackets []).

This document is not a legally binding document nor does it affect the interpretation of any B2B procedure (see, for example, [B2BCSDNP 1.10.b]).

Some jurisdictions may have additional material relevant to B2B implementation and usage. These are permitted by the Rules (ref [R 7.2A.4 k], where such private agreements are called “B2B Communications”. This document does not reference or address any such “B2B Communications”.

B2B procedures

The B2B Procedures are legally binding, since they comply with the Rules (clause 7.2A.4(i)). There are the key legally-binding documents in the B2B set (although there are other documents, including those above the B2B procedures and under the Rules).

- *B2B Procedure: Technical Guidelines For B2B Procedures* [B2BTG] .
- *B2B Procedure: Technical Delivery Specification* [B2BTDS].
- *B2B Procedure: Customer And Site Details Notification Process* [B2BCSDNP].
- *B2B Procedure: Meter Data Process* [B2BMDP].
- *B2B Procedure: One Way Notification Process* [B2BOWNP].
- *B2B Procedure: Service Order Process* [B2BSOP].

Available on AEMO’s website: <http://www.aemo.com.au/Electricity/Policies-and-Procedures/B2B/BB-Procedures>.

NEM RoLR Processes

- *NEM RoLR Processes: Part B - B2B Procedure: RoLR Process* [B2BRP].
<http://www.aemo.com.au/Electricity/Policies-and-Procedures/B2B/NEM-RoLR-Processes>.

aseXML Guidelines

The aseXML Guidelines document [Ga] is specifically included as legally binding by clauses in the B2B Procedures.

- *Guidelines for Development of A Standard for Energy Transactions in XML (aseXML)*, [Ga].
<http://www.aemo.com.au/About-the-Industry/Information-Systems/aseXML-Standards/aseXML-Guidelines>

1.5 Useful references

- “aseXML Standards” primary starting point, <http://www.asexml.com>.
- “aseXML Document Samples”, <http://www.aemo.com.au/asexml/samples.html>.
- “aseXML Schemas” previous aseXML releases, including supporting documentation, <http://www.aemo.com.au/asexml/schemas.html>.
- “Metering Services” MDFF Specification, Meter Data File Format Specification NEM12 and NEM13 <http://www.aemo.com.au/electricityops/mdff.html>.

1.6 Conventions

1.6.1 aseXML Diagrams

The diagrams in this document are snapshots from Altova XMLSpy® screens, using aseXML schema files for the documented element version (e.g. *ase:Transaction/...*), or aseXML Release (if not otherwise versioned). For a comprehensive description of the diagram artifacts, refer to the *XMLSpy® 2010 Enterprise Edition User & Reference Manual*, available from Altova’s website (http://www.altova.com/download_doc/).

An alternative tool for visualising aseXML is Enterprise Architect® from Sparx Systems (see <http://sparxsystems.com/>).

1.6.2 XPath

For XML Path Language (XPath) 2.0, W3C Recommendation 23 January 2007, see <http://www.w3.org/TR/2007/REC-xpath20-20070123/>.

Hints for XPaths in this document are:

- A single dot (“.”) means the name of the element using the given aseXML type (that is, equivalent to the XPath of ‘self()’).
- An ‘at’ symbol (“@”) means an attribute.
- Square brackets (“[...]”) is a condition, perhaps best read with the word ‘where’ for the opening bracket.
- A single slash (“/”) at the beginning of a path expression is an abbreviation to begin the path at the root node of the tree that contains the context node (that is, in effect, from the beginning of the aseXML file).
- A double slash (“//”) at the beginning of a path expression is an abbreviation to establish an initial node sequence that contains the root of the tree in which the context node is found, plus all nodes descended from this root (that is, in effect, “//xxx” matches any element ‘xxx’ starting from ‘/aseXML’ and looking down the tree of elements).

2 Business Documents

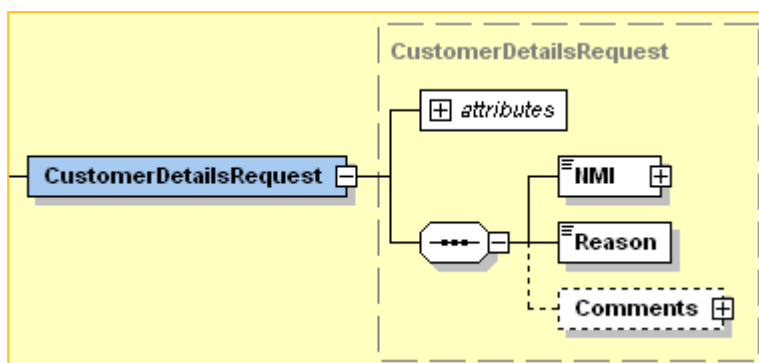
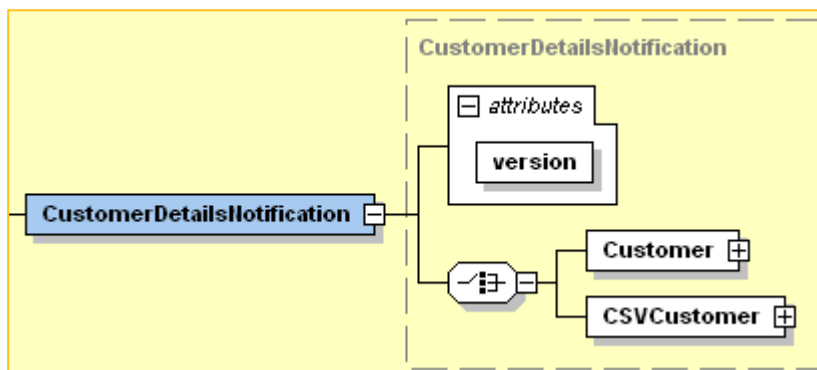
“Business Documents ... are mapped onto aseXML Transactions ...” (see [B2BTDS2.1 d]).

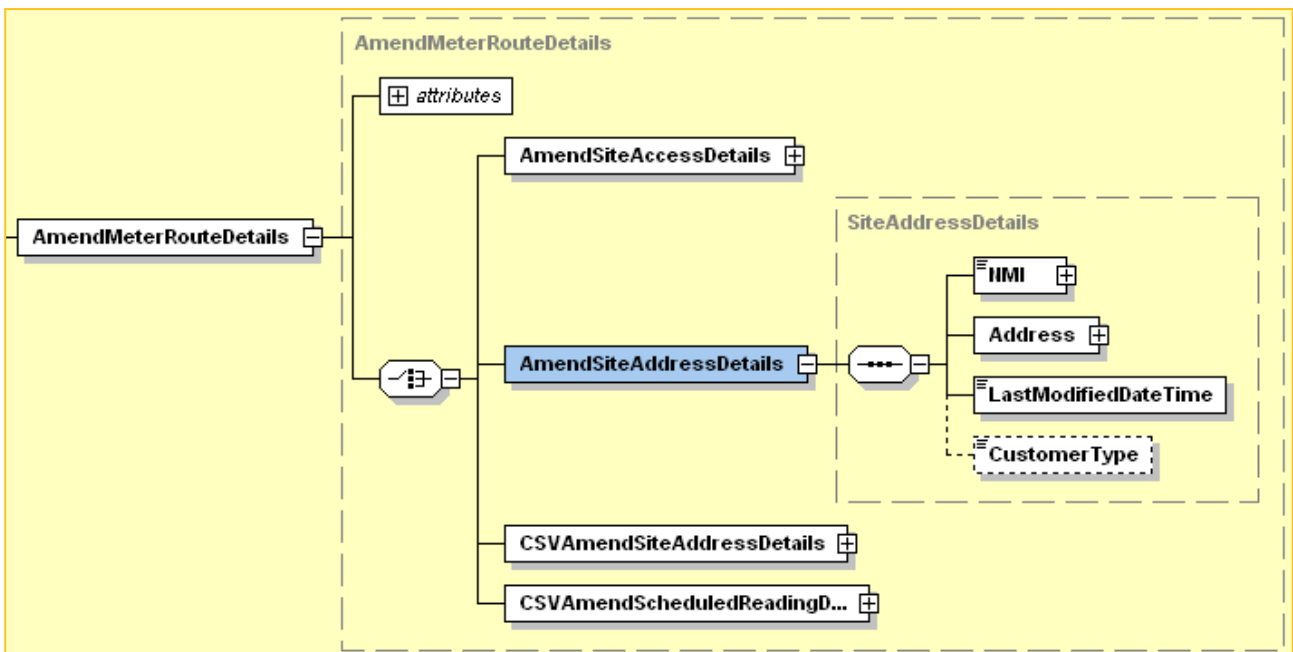
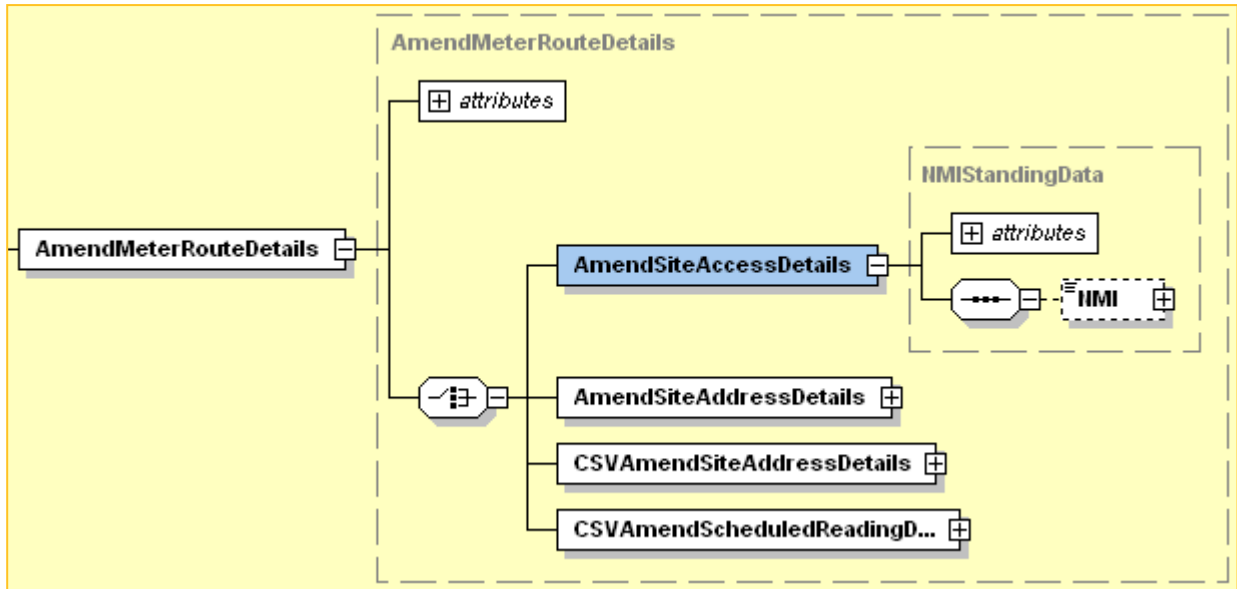
2.1 Customer and Site Details Notification Process

The list of business documents is in the Customer and Site Details Notification Process [B2BCSDN 1.9.1 a]. The following table is in alphabetical sequence of business document. The aseXML Transactions are relative to ase:aseXML/Transactions/Transaction:

Business Document	XPath to aseXML node	Transaction version
CustomerDetailsNotification	CustomerDetailsNotification	r18
CustomerDetailsReconciliation	CustomerDetailsNotification	r18
CustomerDetailsRequest	CustomerDetailsRequest	r17
SiteAccessNotification	AmendMeterRouteDetails/AmendSiteAccessDetails	r19
SiteAddressNotification	AmendMeterRouteDetails/AmendSiteAddressDetails	r19

The five Business Documents are implemented in four aseXML transactions.





The rest of this section expands on each of the business documents, with common material to all the business documents first.

2.1.1 Common Customer and Site Details Notification Process business items

The references to the business items, data groups and data values relevant to the aseXML implementation of all transactions in the Customer and Site Details Notification Process are:

- [B2BCSDNP 2.2.2] (Common business rules for Notifications).
- [B2BCSDNP 3] (Timing Requirements).

In alphabetical sequence of business item common to all transactions in the Customer and Site Details Notification Process, the following table provides the mapping to aseXML, with each XPath relative to ase:aseXML:

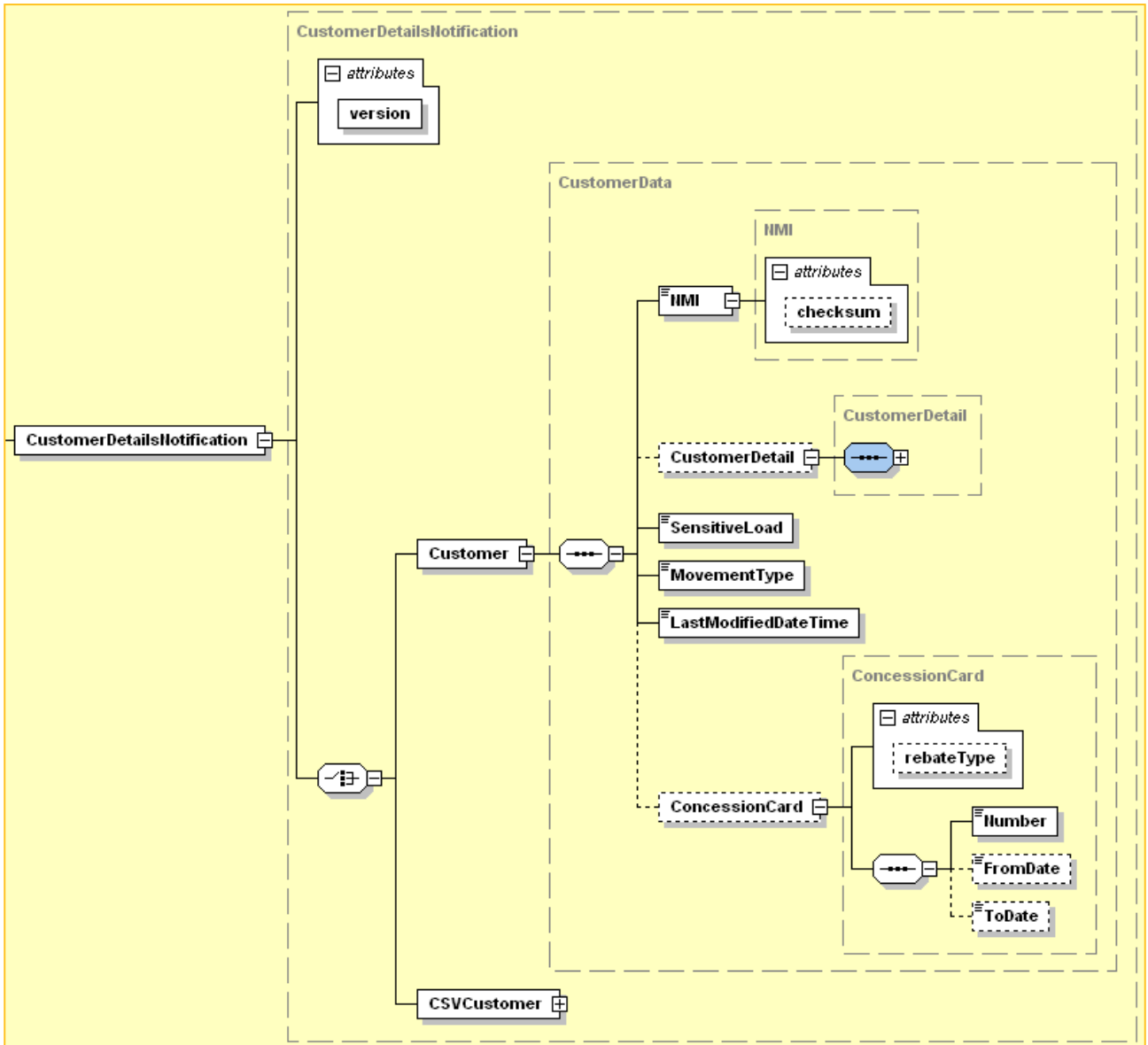
Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:Envelope (complex) (§5.76 on page 97)—see message (§6 on page 157)
	Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
	Acknowledgements /TransactionAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98); minOccurs="0" maxOccurs="unbounded"
	Transactions	Type ase:Transactions (complex) (§5.214 en page 154)
	Transactions/Transaction	Type ase:Transaction (complex) (§5.209 en page 148)
	Transactions/Transaction /AmendMeterRouteDetails	Type ase:AmendMeterRouteDetails (complex) (§5.5 on page 56)
BusinessAcceptance/Rejection	Acknowledgements /TransactionAcknowledgement	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151); minOccurs="0" maxOccurs="unbounded"—see BusinessAcceptance/Rejection business document (§3.2 on page 52)
BusinessReceipt	Acknowledgements /MessageAcknowledgement	Type ase:MessageAcknowledgement (complex) (§5.101 on page 108); minOccurs="0" maxOccurs="unbounded"—see BusinessReceipt business document (§3.1 on page 49)
CustomerDetailsNotification	Transactions/Transaction /CustomerDetailsNotification	Type ase:CustomerDetailsNotification (complex) (§5.48 on page 78)—see CustomerDetailsNotification business document (§2.1.2 below)
CustomerDetailsRequest	Transactions/Transaction /CustomerDetailsRequest	Type ase:CustomerDetailsRequest (complex) (§5.49 on page 79)—see CustomerDetailsRequest business document (§2.1.4 on page 11)
EventCode	Acknowledgements /TransactionAcknowledgement/Event /Code	Type ase:EventCode (complex) (§5.79 on page 99)
ServiceOrderRequest	Transactions/Transaction /ServiceOrderRequest	Type ase:ServiceOrderRequest (complex) (§5.193 on page 141)—see ServiceOrderRequest business document (§2.5.1 on page 35)
SiteAccessNotification	Transactions/Transaction /AmendMeterRouteDetails /AmendSiteAccessDetails	Type ase:SiteAccessDetails (complex) (§5.203 on page 146)—see SiteAccessNotification business document (§2.1.5 on page 12)
SiteAddressNotification	Transactions/Transaction /AmendMeterRouteDetails /AmendSiteAddressDetails	Type ase:SiteAddressDetails (complex) (§5.204 on page 146)—see SiteAddressNotification business document (§2.1.6 on page 13)

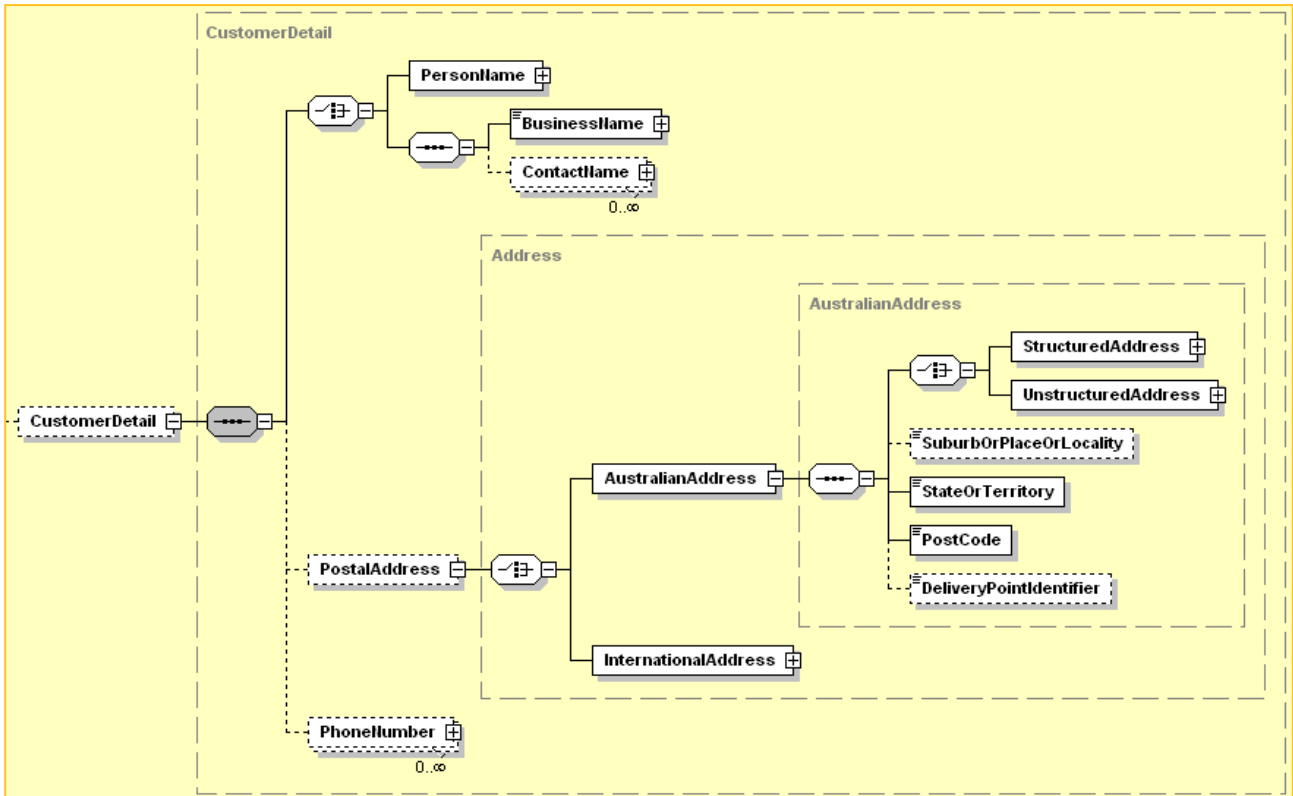
2.1.2 CustomerDetailsNotification business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the CustomerDetailsNotification business document, in addition to those in *Common Customer and Site Details Notification Process business items* (§2.1.1 on page 7) are:

- [B2BCSDNP 2.2.4] (Customer Details Notification).
- [B2BCSDNP 4.2] (CustomerDetailsNotification Transaction Data).

The element in aseXML implementing the CustomerDetailsNotification business document has the XPath *aseXML/Transactions/Transaction/CustomerDetailsNotification*, with the short name of ase:CustomerDetailsNotification.





In alphabetical sequence of business item in the CustomerDetailsNotification and CustomerDetailsReconciliation business documents, the following table provides the mapping to aseXML, with each XPath relative to ase:CustomerDetailsNotification:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:CustomerDetailsNotification (complex) (§5.48 on page 78)
	@version	r18—Type ase:ReleaseIdentifier (string with pattern), (§5.183 on page 137); use="required"
Customer	Customer	Type ase:CustomerData (complex) (§5.46 on page 77)
Customer/ConcessionCard	Customer/ConcessionCard	Type ase:ConcessionCard (complex) (§5.42 on page 75); minOccurs="0"
Customer/CustomerDetail	Customer/CustomerDetail	Type ase:CustomerDetail (complex) (§5.47 on page 77); minOccurs="0"
Customer/CustomerDetail/PostalAddress/AustralianAddress	Customer/CustomerDetail/PostalAddress/AustralianAddress	Type ase:AustralianAddress (complex) (§5.8 on page 58)
Customer/NMI	Customer/NMI	Type ase:NMI (complex) (§5.157 on page 127)
BusinessContactName	Customer/CustomerDetail/ContactName	Type ase:PersonName (complex) (§5.170 on page 133); minOccurs="0" maxOccurs="unbounded"
BusinessName	Customer/CustomerDetail/BusinessName	Type ase:BusinessName (complex) (§5.39 on page 74)
CustomerName	Customer/CustomerDetail/PersonName	Type ase:PersonName (complex) (§5.170 on page 133)
DeliveryPoint Identifier	Customer/CustomerDetail/PostalAddress/AustralianAddress/DeliveryPointIdentifier	Type ase:AustralianDeliveryPointIdentifier (integer 1000000-9999999 incl.) (§5.11 on page 60); nillable="true" minOccurs="0"
FromDate	Customer/ConcessionCard/FromDate	xsd:date; minOccurs="0"
LastModifiedDateTime	Customer/LastModifiedDateTime	xsd:dateTime
MovementType	Customer/MovementType	Type ase:MovementType (enumerated list) (§5.155 on page 126)

Business Item	XPath to aseXML node	aseXML type and restrictions
NMI	Customer/NMI	Type ase:NMIBase (string ≤ 10 chars.) (§5.158 on page 127)
NMI Checksum	Customer/NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"
PensionHealthCardNumber	Customer/ConcessionCard/Number	xsd:string; maxLength value="10"
PhoneNumber1	Customer/CustomerDetail/PhoneNumber[1]	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64); minOccurs="0" maxOccurs="unbounded"
PhoneNumber2	Customer/CustomerDetail/PhoneNumber[2]	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64); minOccurs="0" maxOccurs="unbounded"
PostalAddress	Customer/CustomerDetail/PostalAddress	Type ase:Address (complex) (§5.4 on page 56); minOccurs="0"
RebateCode	Customer/ConcessionCard@rebateType	Type ase:RebateType (§5.180 on page 136)
SensitiveLoad	Customer/SensitiveLoad	Type ase:SensitiveLoadType (§5.190 on page 139)
ToDate	Customer/ConcessionCard/ToDate	xsd:date; minOccurs="0"

2.1.3 CustomerDetailsReconciliation business document

The reference to the business items, data groups and data values relevant to the aseXML implementation of the CustomerDetailsReconciliation business document, in addition to those in *Common Customer and Site Details Notification Process business items* (§2.1.1 on page 7) are:

- [B2BCSDNP 2.2.5] (Customer Details Reconciliation).
- [B2BCSDNP 4.2] (CustomerDetailsNotification Transaction Data).

The element in aseXML implementing the CustomerDetailsReconciliation business document has the XPath *aseXML/Transactions/Transaction/CustomerDetailsNotification*, with the short name of ase:CustomerDetailsNotification.

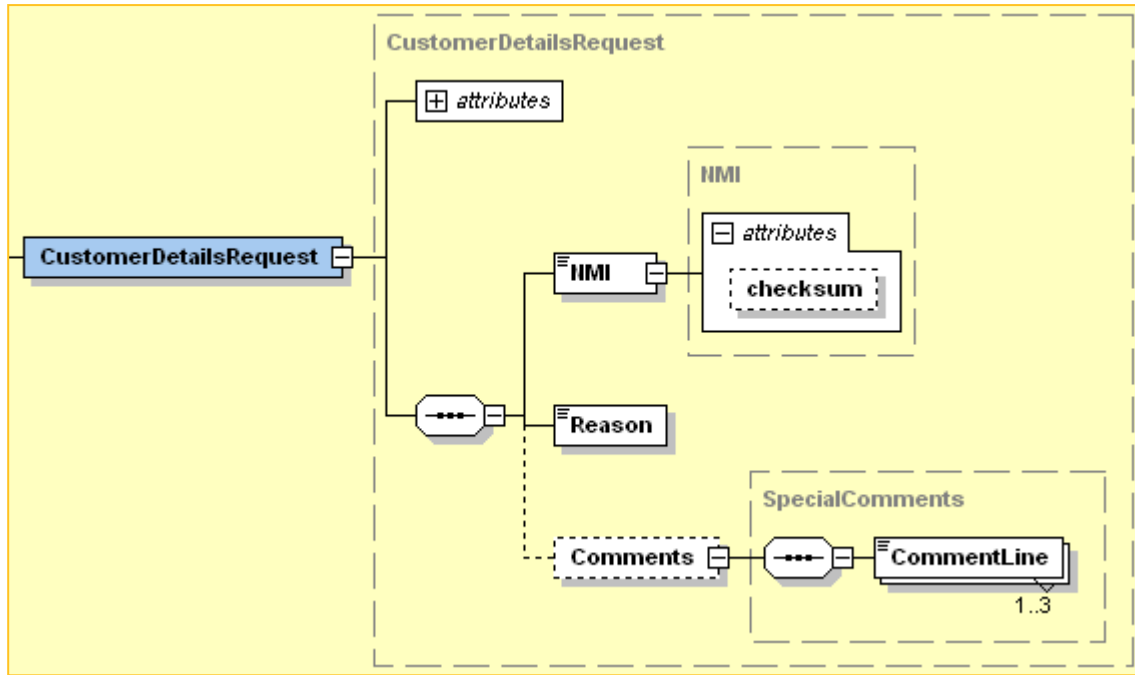
In alphabetical sequence of business item in the CustomerDetailsReconciliation business document, the table providing the mapping to aseXML, with each XPath relative to ase:CustomerDetailsNotification is in *CustomerDetailsNotification business document* (§2.1.2 on page 8).

2.1.4 CustomerDetailsRequest business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the CustomerDetailsRequest business document, in addition to those in *Common Customer and Site Details Notification Process business items* (§2.1.1 on page 7) are:

- [B2BCSDNP 2.2.3] (Customer Details Request).
- [B2BCSDNP 3.2.4] (Timing Requirement for Sending CustomerDetailsRequests).
- [B2BCSDNP 4.1] (CustomerDetailsRequest Transaction Data).

The element in aseXML implementing the CustomerDetailsRequest business document has the XPath *aseXML/Transactions/Transaction/CustomerDetailsRequest*, with the short name of ase:CustomerDetailsRequest.



In alphabetical sequence of business item in the CustomerDetailsRequest business document, the following table provides the mapping to aseXML, with each XPath relative to ase:CustomerDetailsRequest:

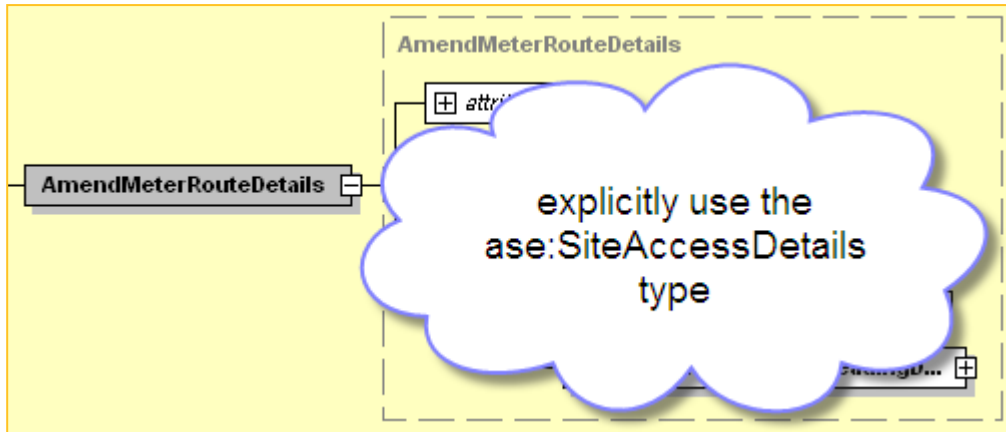
Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:CustomerDetailsRequest (complex) (§5.49 on page 79)
	@version	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137); use="required"
	Comments	Type ase:SpecialComments (complex) (§5.207 on page 148); minOccurs="0"
	NMI	Type ase:NMI (complex) (§5.157 on page 127)
NMI	NMI	Type ase:NMIBase (string ≤ 10 chars.) (§5.158 on page 127)
NMI Checksum	NMI/@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"
Reason	Reason	Type ase:RequestReason (enumerated) (§5.184 on page 137)
SpecialNotes	Comments/CommentLine	Type ase:CommentLine (string ≤ 80 chars.) (§5.43 on page 76); maxOccurs="3"

2.1.5 SiteAccessNotification business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the SiteAccessNotification business document, in addition to those in *Common Customer and Site Details Notification Process business items* (§2.1.1 on page 7) are:

- [B2BCSDNP 2.2.6] (Site Address Notification)
- [B2BCSDNP 4.3] (SiteAccessNotification Transaction Data)

The element in aseXML implementing the the SiteAccessNotification business document has the XPath aseXML/Transactions/Transaction/AmendMeterRouteDetails/AmendSiteAccessDetails, with the short name of ase:AmendSiteAccessDetails.



To implement the SiteAccessNotification business document, explicitly use the ase:SiteAccessDetails type for the ase:AmendSiteAccessDetails, like:

```
<AmendSiteAccessDetails xsi:type="ase:SiteAccessDetails" version="r19">
```

For detail of the ase:SiteAccessDetails type, see Type ase:SiteAccessDetails (complex) on page 146.

In alphabetical sequence of business item in the SiteAccessNotification business document, the following table provides the mapping to aseXML, with each XPath relative to ase:AmendSiteAccessDetails:

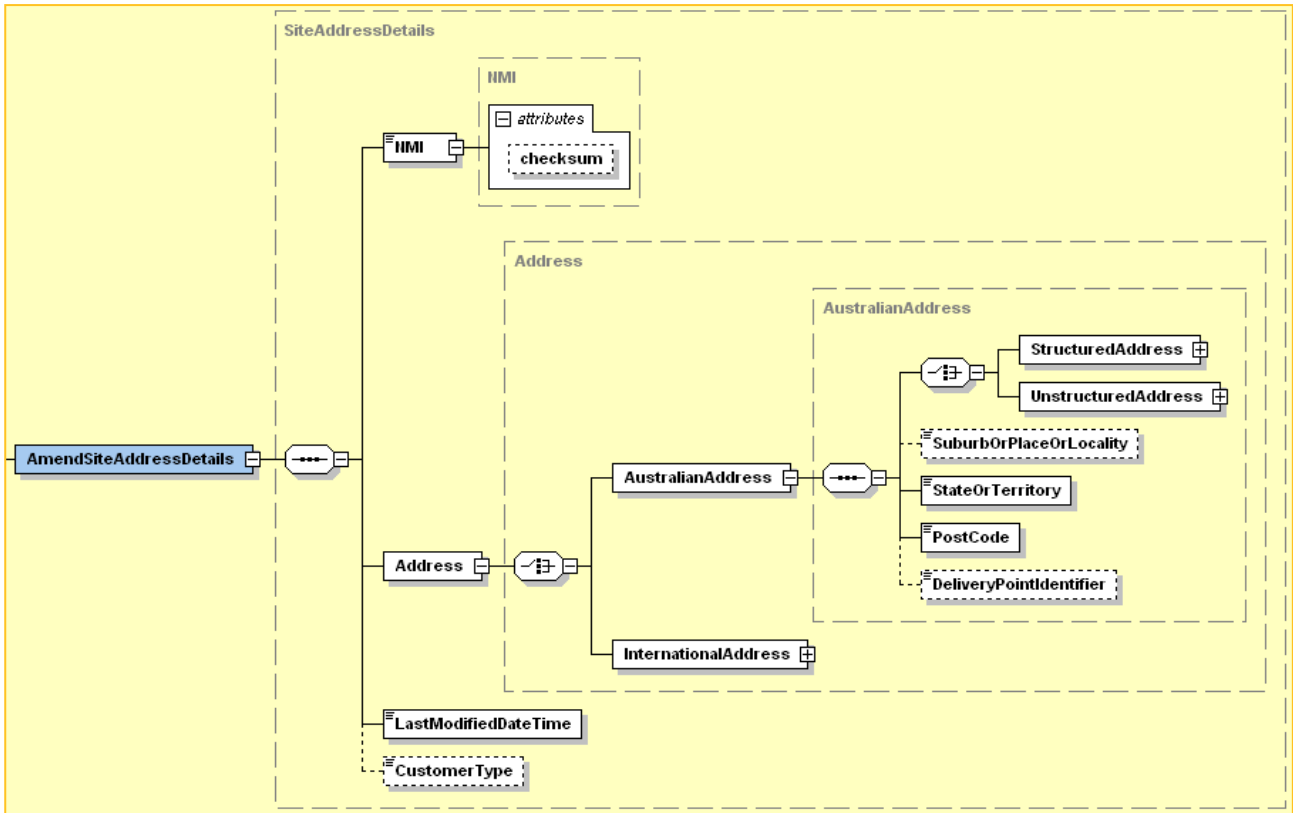
Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:SiteAccessDetails (complex) (§5.203 on page 146)
	@version	r19— Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137); use="required"
	Hazard	Type ase:SiteHazard (complex) (§5.205 on page 147); maxOccurs="unbounded"
	NMI	Type ase:NMI (complex) (§5.157 en page 127); minOccurs="0"
AccessDetails	AccessDetail	Type ase:AccessDetail (string ≤ 160 chars.) (§5.1 on page 55)
HazardDescription	Hazard/Description	Type ase:HazardDescription (string ≤ 80 chars.) (§5.89 on page 103)
LastModifiedDateTime	LastModifiedDateTime	xsd:dateTime
NMI	NMI	Type ase:NMIBase (string ≤ 10 chars.) (§5.158 on page 127)
NMI Checksum	NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"

2.1.6 SiteAddressNotification business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the SiteAddressNotification business document, in addition to those in *Common Customer and Site Details Notification Process business items* (§2.1.1 on page 7) are:

- [B2BCSDNP 2.2.6] (Site Address Notification).
- [B2BCSDNP 4.4] (SiteAddressNotification Transaction Data).

The element in aseXML implementing the SiteAddressNotification business document has the XPath aseXML/Transactions/Transaction/AmendMeterRouteDetails/AmendSiteAddressDetails, with the short name of ase:AmendSiteAddressDetails.



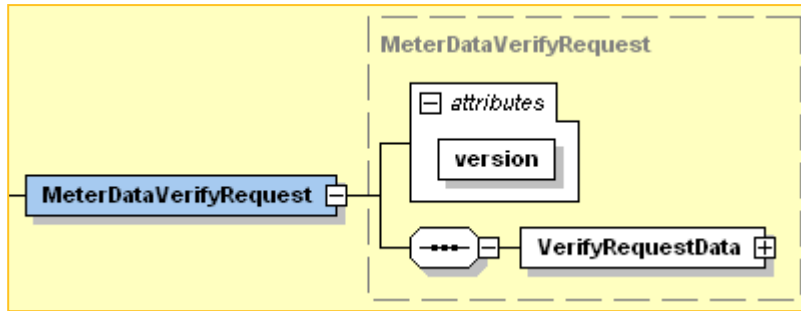
In alphabetical sequence of business item in the SiteAddressNotification business document, the following table provides the mapping to aseXML, with each XPath relative to ase:AmendSiteAddressDetails:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:SiteAddressDetails (complex) (§5.204 on page 146)
	Address/AustralianAddress	Type ase:AustralianAddress (complex) (§5.8 on page 58)
	NMI	Type ase:NMI (complex) (§5.157 on page 127)
DeliveryPointIdentifier	Address/AustralianAddress /DeliveryPointIdentifier	Type ase:AustralianDeliveryPointIdentifier (integer 1000000-99999999 incl.) (§5.11 on page 60); nillable="true" minOccurs="0"
LastModifiedDateTime	LastModifiedDateTime	xsd:dateTime
NMI	NMI	Type ase:NMIBase (string ≤ 10 chars.) (§5.158 on page 127)
NMI Checksum	NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"
SiteAddress	Address	Type ase:Address (complex) (§5.4 on page 56)

2.2 Meter Data Process

The list of business documents is in the Meter Data Process [B2BMDP 1.9.2 b]. The following table is in alphabetical sequence of Business Document. The aseXML transactions are relative to ase:aseXML/Transactions/Transaction:

Business Document	XPath to aseXML node	Transaction version
MeterDataNotification	MeterDataNotification	r25
ProvideMeterDataRequest	MeterDataMissingNotification	r14



The rest of this section expands on each of the business documents, with common material to all the business documents first.

2.2.1 Common Meter Data Process business items

The references to the business items, data groups and data values relevant to the aseXML implementation of all transactions in the Meter Data Process are:

- [B2BMDP 2.7] Common Business Rules.
- [B2BMDP 3] Timing Requirements.

In alphabetical sequence of business item common to all transactions in the Meter Data Process, the following table provides the mapping to aseXML, with each XPath relative to ase:aseXML:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	See <i>message</i> (§6 on page 157)
	Acknowledgements	Type <i>ase:Acknowledgements (complex)</i> (§5.2 on page 55)
	Header	Type <i>ase:Header (complex)</i> (§5.90 on page 103)
	Transactions	Type <i>ase:Transactions (complex)</i> (§5.214 en page 154)
	Transactions/Transaction	Type <i>ase:Transaction (complex)</i> (§5.209 en page 148)
BusinessAcceptance/Rejection	Acknowledgements /TransactionAcknowledgement	Type <i>ase:TransactionAcknowledgement (complex)</i> (§5.210 on page 151); minOccurs="0" maxOccurs="unbounded"
BusinessReceipt	AcknowledgementsMessageAcknowledgement	Type <i>ase:MessageAcknowledgement (complex)</i> (§5.101 on page 108); minOccurs="0" maxOccurs="unbounded"
MeterDataNotification	Transactions/Transaction /MeterDataNotification—see <i>MeterDataNotification business document</i> (§2.2.2 on page 17)	Type <i>ase:MeterDataNotification (complex)</i> (§5.114 on page 113)
Notification Transaction	Transactions/Transaction /MeterDataNotification—see <i>MeterDataNotification business document</i> (§2.2.2 on page 17)	Type <i>ase:MeterDataNotification (complex)</i> (§5.114 on page 113)
ParticipantID (usage 1)	Header/To	Type <i>ase:PartyIdentifier (complex)</i> (§5.169 en page 132)
ParticipantID (usage 2)	Header/From	Type <i>ase:PartyIdentifier (complex)</i> (§5.169 en page 132)
ParticipantID (usage 3)	//RoleAssignment/Party	Type <i>ase:PartyIdentifier (complex)</i> (§5.169 en page 132); nillable="true" minOccurs="0"
ProvideMeterDataRequest	Transactions/Transaction /MeterDataMissingNotification—see <i>ProvideMeterDataRequest business document</i>	Type <i>ase:MeterDataMissingNotification (complex)</i> (§5.113 on page 112)

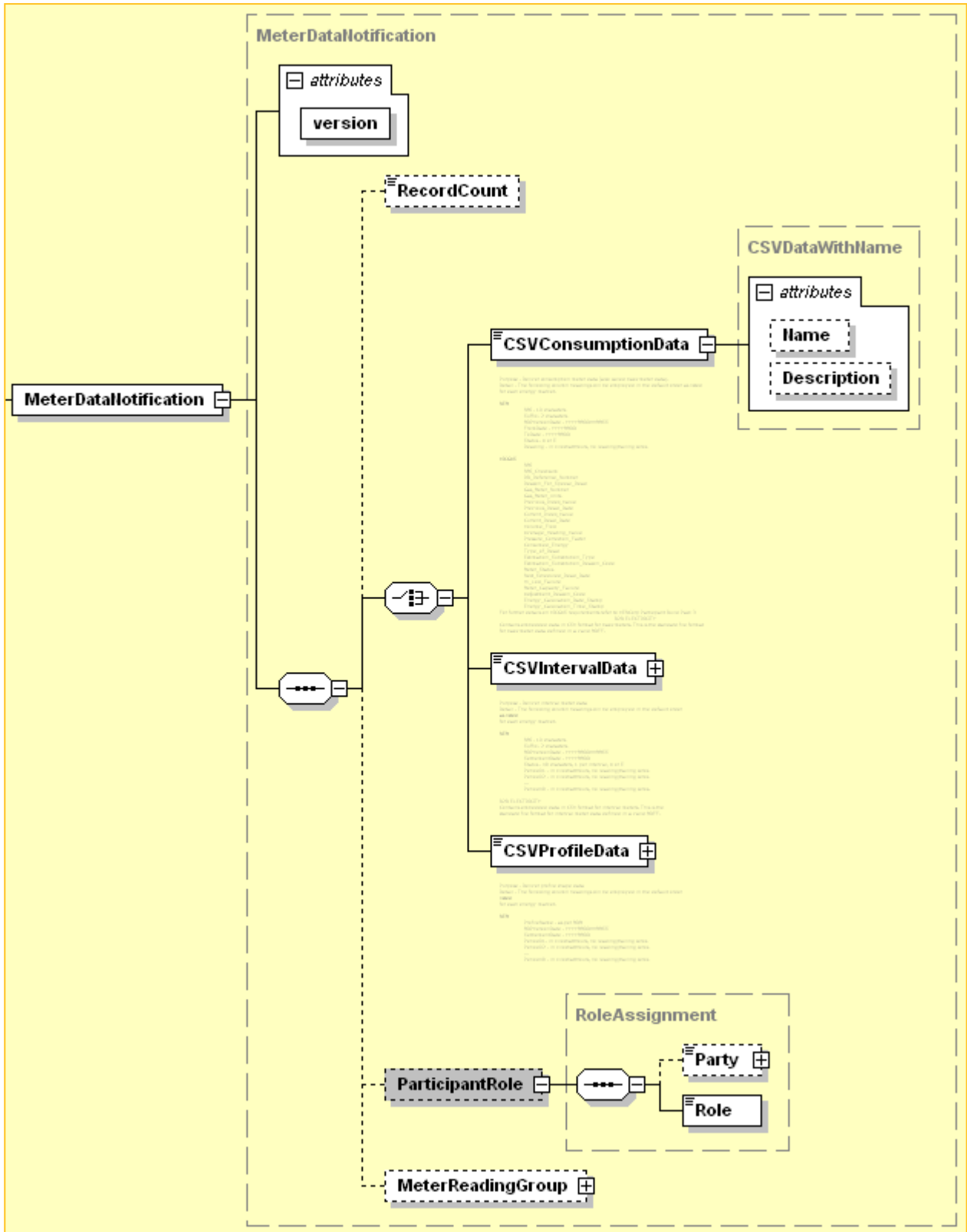
Business Item	XPath to aseXML node	aseXML type and restrictions
	(§2.2.3 on page 19)	
Request Transaction	Transactions/Transaction /MeterDataMissingNotification—see <i>ProvideMeterDataRequest</i> business document (§2.2.3 on page 19) or Transactions/Transaction /MeterDataVerifyRequest—see <i>VerifyMeterDataRequest</i> business document (§2.2.4 on page 22)	<i>Type ase:MeterDataMissingNotification</i> (complex) (§5.113 on page 112) or <i>Type ase:MeterDataVerifyRequest</i> (complex) (§5.116 on page 116)
Role	//RoleAssignment/Role	<i>Type ase:RoleIdentifier</i> (string, ≤ 4 chars.) (§5.188 on page 138)
VerifyMeterDataRequest	Transactions/Transaction /MeterDataVerifyRequest—see <i>VerifyMeterDataRequest</i> business document (§2.2.4 on page 22)	<i>Type ase:MeterDataVerifyRequest</i> (complex) (§5.116 on page 116)

2.2.2 MeterDataNotification business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the MeterDataNotification business document, in addition the common items (in §2.2.1 *Common Meter Data Process* business items on page 16) are:

- [B2BMDP 2.4] (Meter Data Notification Process).
- [B2BMDP 2.8] (Meter Data Notification Business Rules).
- [B2BMDP 4.3 a] (MeterDataNotification Transaction Data).

The element in aseXML implementing the MeterDataNotification business document has the XPath is /aseXML/Transactions/Transaction/MeterDataNotification, with the short name of ase:MeterDataNotification.



In alphabetical sequence of business item in the MeterDataNotification business document, the following table provides the mapping to aseXML, with each XPath relative to ase:MeterDataNotification:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:MeterDataNotification (complex) (§5.114 on page 113)
	/aseXML	See message (§6 on page 157)
	/aseXML/Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
	/aseXML/Acknowledgements/TransactionAcknowledgement	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Acknowledgements/TransactionAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	/aseXML/Transactions	Type ase:Transactions (complex) (§5.214 on page 154)
	/aseXML/Transactions/Transaction	Type ase:Transaction (complex) (§5.209 on page 148)
	@version	r25—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137); use="required"
	ParticipantRole	Type ase:RoleAssignment (§5.186 on page 138); minOccurs="0"
CSVConsumptionData	CSVConsumptionData	Type ase:CSVDataWithName (§5.44 on page 76); also see note 1 on page 115; nillable="true"
CSVIntervalData	CSVIntervalData	Type ase:CSVDataWithName (§5.44 on page 76); also see note 2 on page 115; nillable="true"
InvestigationCode	/aseXML/Transactions/Transaction/MeterDataVerifyRequest/VerifyRequestData/InvestigationCode—see <i>VerifyMeterDataRequest business document</i> (§2.2.4 on page 22)	Type ase:IndexInvestigationCode (enumerated) (§5.92 on page 104)—for business rules, see [B2BMDP 2.10.1]
KeyInfo	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/KeyInfo	Type ase:EventKeyInfo (string ≤ 80 chars.) (§5.82 on page 100); minOccurs="0"
MDPID	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 on page 132)
ParticipantID	/aseXML/Header/To	Type ase:PartyIdentifier (complex) (§5.169 on page 132)
ParticipantRole	ParticipantRole/Role	Type ase:RoleIdentifier (string, ≤ 4 chars.) (§5.188 on page 138)
RequestID (usage 1)	/aseXML/Transactions/Transaction@transactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153); use="required"
RequestID (usage 2)	/aseXML/Transactions/Transaction@initiatingTransactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153); use="optional"
Status	/aseXML/Acknowledgements/TransactionAcknowledgement@status	Type ase:TransactionStatus (enumerated) (§5.215 on page 154); use="required"

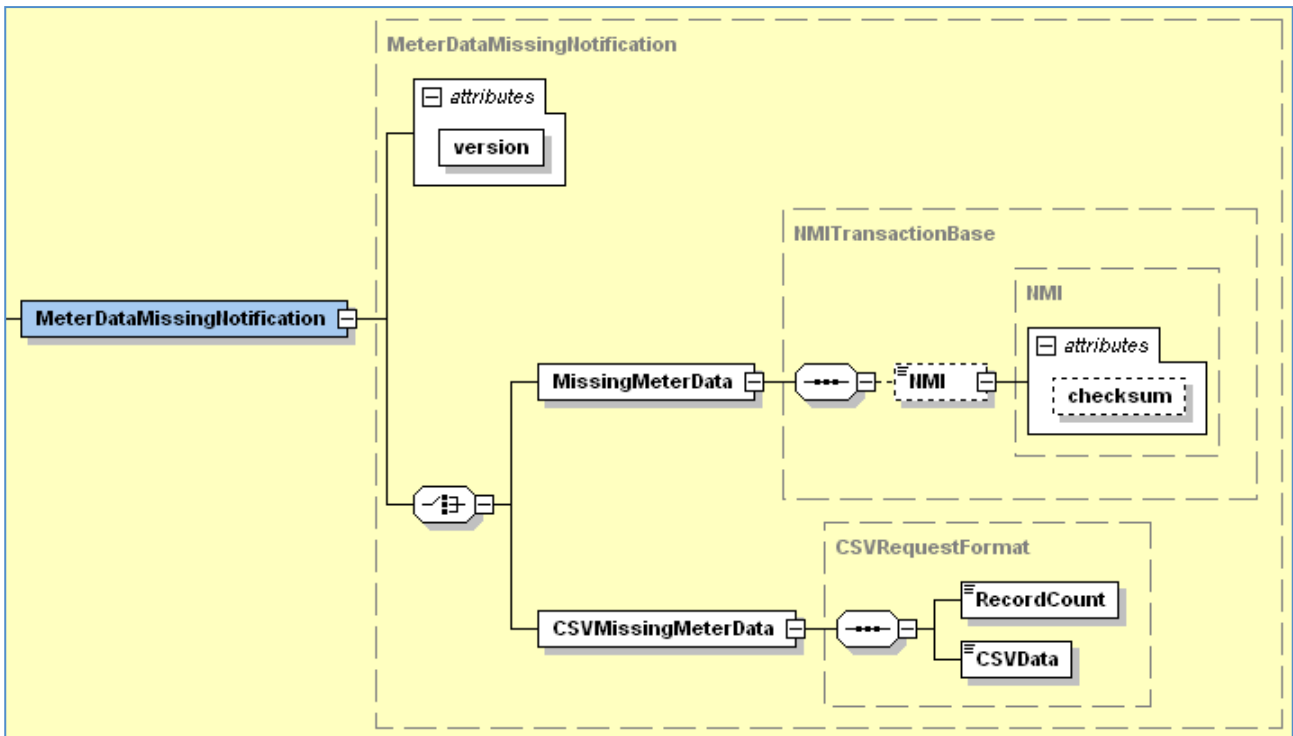
2.2.3 ProvideMeterDataRequest business document

The references to the business items, data groups and data values relevant to the ProvideMeterDataRequest business document are, in addition the common items (in §2.2.1 *Common Meter Data Process* business items on page 16) are:

- [B2BMDP 2.5] (Provide Meter Data Process).

- [B2BMDP 2.9] (Provide Meter Data Process Business Rules).
- [B2BMDP 4.1 a] (ProvideMeterDataRequest Transaction Data).

The element in aseXML implementing the ProvideMeterDataRequest business document has the XPath of /aseXML/Transactions/Transaction/MeterDataMissingNotification, with the short name of ase:MeterDataMissingNotification.



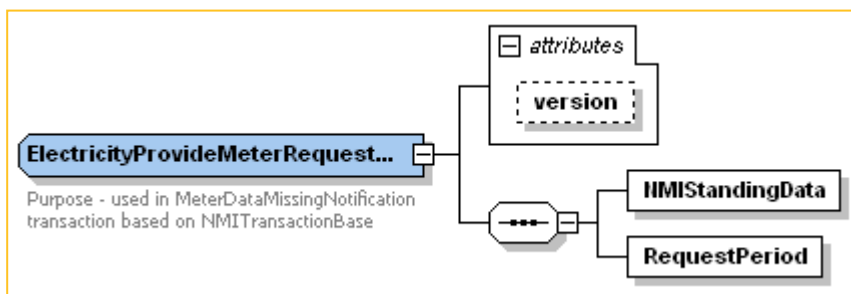
To implement the ProvideMeterDataRequest business document,

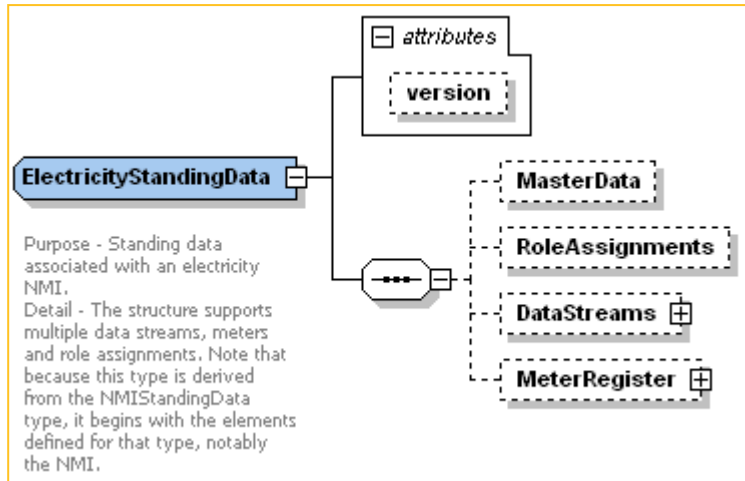
- explicitly use the type ase:ElectricityProvideMeterRequestData for the ase:MissingMeterData element, like:

```
<MissingMeterData xsi:type="ase:ElectricityProvideMeterRequestData">
```

- explicitly use the ase:ElectricityStandingData type for the ase:NMIStandingData element, like:

```
<NMIStandingData xsi:type="ase:ElectricityStandingData" version="r25">
```





In alphabetical sequence of business item in ProvideMeterDataRequest business document, the following table provides the mapping to aseXML, with each XPath relative to ase:MeterDataMissingNotification.

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:MeterDataMissingNotification (complex) (§5.113 on page 112)
	/aseXML	See message (§6 on page 157)
	/aseXML/Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
	/aseXML/Acknowledgements/TransactionAcknowledgement	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Acknowledgements/TransactionAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	/aseXML/Transactions	Type ase:Transactions (complex) (§5.214 en page 154)
	/aseXML/Transactions/Transaction	Type ase:Transaction (complex) (§5.209 en page 148)
	@version	r14— Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137); use="required"
	MissingMeterData	Type ase:ElectricityProvideMeterRequestData (complex) (§5.66 on page 90) implementing (using xsi:type) (abstract) Type ase:NMITransactionBase (§5.165 on page 130)
	MissingMeterData/NMI	Type ase:NMI (complex) (§5.157 en page 127); minOccurs="0"
	MissingMeterData/NMIStandingData	Type ase:ElectricityStandingData (§5.70 on page 94) implementing (using xsi:type) (abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129)
	MissingMeterData/NMIStandingData/RoleAssignments	Type ase:RoleAssignments (complex) (§5.187 on page 138)
	MissingMeterData/NMIStandingData/RoleAssignments/RoleAssignment	Type ase:RoleAssignment (complex) (§5.186 on page 138)
	MissingMeterData/NMIStandingData@version	r25— Type ase:ReleaseIdentifier (string with pattern), §5.183 on page 137); use="optional"
	MissingMeterData/RequestPeriod	Type ase:OpenPeriod (complex) (§5.168 on page 131)
	MissingMeterData/RequestPeriod	Type ase:OpenPeriod (complex) (§5.168 on page 131)
	MissingMeterData@version	r17— Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137); use="optional"
EndReadDate	MissingMeterData/RequestPeriod/EndDate	xsd:date; minOccurs="0"

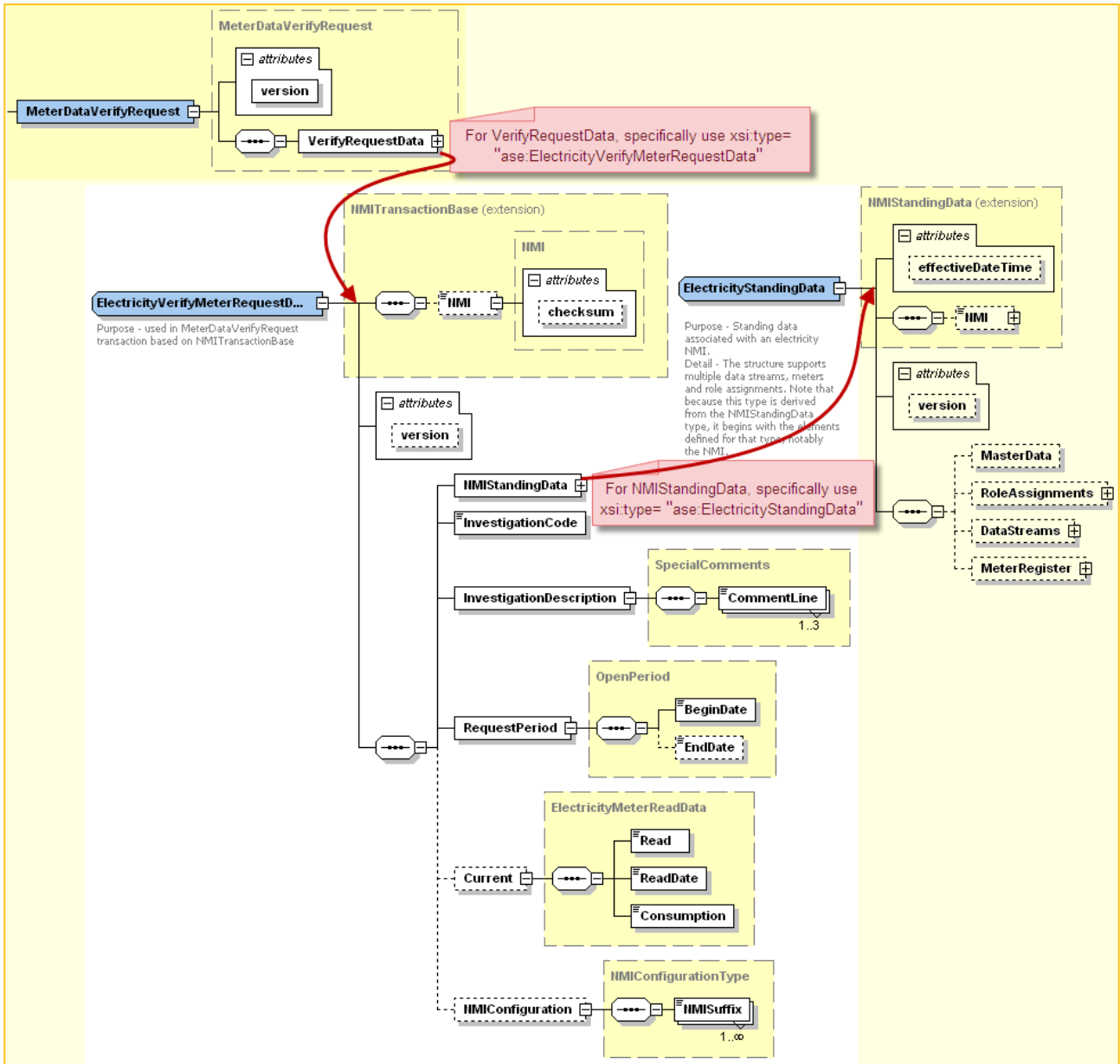
Business Item	XPath to aseXML node	aseXML type and restrictions
EventCode	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Code	Type ase:EventCodeBase (nonNegativeInteger) (§5.80 on page 100)
MDPID	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
NMI	MissingMeterData/NMI	Type ase:NMIBase (string ≤ 10 chars.) (§5.158 on page 127); see Type ase:NMI (complex) (§5.157 on page 127)
NMICheckSum	MissingMeterData/NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"
ParticipantID (usage 1)	/aseXML/Header/To	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
ParticipantID (usage 2)	MissingMeterData/NMIStandingData/RoleAssignments/RoleAssignment/Party	Type ase:PartyIdentifier (complex) (§5.169 en page 132); nillable="true" minOccurs="0"
ParticipantRole	MissingMeterData/NMIStandingData/RoleAssignments/RoleAssignment/Role	Type ase:RoleIdentifier (string, ≤ 4 chars.) (§5.188 on page 138)
RequestID (usage 1)	/aseXML/Transactions/Transaction@transactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153); use="required"
RequestID (usage 2)	/aseXML/Transactions/Transaction@initiatingTransactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153); use="optional"
Severity	/aseXML/Acknowledgements/TransactionAcknowledgement/Event@severity	Type ase:EventSeverity (enumerated) (§5.83 on page 101), use="optional" default="Fatal"
StartReadDate	MissingMeterData/RequestPeriod/BeginDate	xsd:date
Status	/aseXML/Acknowledgements/TransactionAcknowledgement@status	Type ase:TransactionStatus (enumerated) (§5.215 on page 154); use="required"

2.2.4 VerifyMeterDataRequest business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the VerifyMeterDataRequest business document, in addition the common items (in §2.2.1 Common Meter Data Process business items on page 16) are:

- [B2BMDP 2.6] (Verify Meter Data Process).
- [B2BMDP 2.10] (Verify Meter Data Process Business Rules).
- [B2BMDP 4.2] (VerifyMeterDataRequest Transaction Data).

The element in aseXML implementing the VerifyMeterDataRequest business document has the XPath /aseXML/Transactions/Transaction/MeterDataVerifyRequest, with the short name of ase:MeterDataVerifyRequest.



To implement the VerifyMeterDataRequest business document:

- Explicitly use the type `ase:ElectricityVerifyMeterRequestData` for the `ase:VerifyRequestData` element, like:

```
<VerifyRequestData xsi:type="ase:ElectricityVerifyMeterRequestData" version="r9">
```

- Explicitly use the type `ase:ElectricityStandingData` for the `ase:NMIStandingData` element (if used), like:

```
<NMIStandingData xsi:type="ase:ElectricityStandingData">
```


In alphabetical sequence of business item in VerifyMeterDataRequest business document, the following table provides the mapping to aseXML, with each XPath relative to ase:MeterDataVerifyRequest.

Business Item	XPath to aseXML node	aseXML type and restrictions
		Type ase:MeterDataVerifyRequest (complex) (§5.116 on page 116)
	/aseXML	See message (§6 on page 157)
	/aseXML/Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
	/aseXML/Acknowledgements/TransactionAcknowledgement	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Acknowledgements/TransactionAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	/aseXML/Transactions	Type ase:Transactions (complex) (§5.214 en page 154)
	/aseXML/Transactions/Transaction	Type ase:Transaction (complex) (§5.209 en page 148)
	@version	r9—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137); use="required"
	RoleAssignments	Type ase:RoleAssignments (complex) (§5.187 on page 138)
	RoleAssignments/RoleAssignment	Type ase:RoleAssignment (complex) (§5.186 on page 138); maxOccurs="unbounded"
	VerifyRequestData	Type ase:ElectricityVerifyMeterRequestData (complex) (§5.71 on page 95)
	VerifyRequestData/Current/	Type ase:ElectricityMeterReadData (complex) (§5.62 on page 87); minOccurs="0"
	VerifyRequestData/NMI	Type ase:NMI (complex) (§5.157 en page 127); minOccurs="0"
	VerifyRequestData/NMIStandingData/	Type ase:ElectricityStandingData (complex) (§5.70 on page 94)—
	VerifyRequestData/NMIStandingData/MeterRegister/	Type ase:ElectricityMeters (complex) (§5.65 on page 89); minOccurs="0"
	VerifyRequestData/NMIStandingData/MeterRegister/Meter	Type ase:ElectricityMeter (complex) (§5.61 on page 84); maxOccurs="unbounded"
	VerifyRequestData/NMIStandingData/MeterRegister/Meter/RegisterConfiguration	Type ase:ElectricityMeterRegisterConfiguration (complex) (§5.63 on page 87); nillable="true" minOccurs="0"
	VerifyRequestData/NMIStandingData/MeterRegister/Meter/RegisterConfiguration/Register	Type ase:ElectricityMeterRegisterDetail (complex) (§5.64 on page 88); maxOccurs="unbounded"
	VerifyRequestData/RequestPeriod	Type ase:OpenPeriod (complex) (§5.168 on page 131)
CurrentConsumption	VerifyRequestData/Current/Consumption	xsd:decimal; totalDigits value="15" fractionDigits value="3"
CurrentRead	VerifyRequestData/Current/Read	xsd:string; maxLength value="15"
CurrentReadDate	VerifyRequestData/Current/ReadDate	xsd:date
EndReadDate	VerifyRequestData/RequestPeriod/EndDate	xsd:date; minOccurs="0"
EventCode	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Code	Type ase:EventCodeBase (nonNegativeInteger) (§5.80 on page 100)
InvestigationCode	VerifyRequestData/InvestigationCode	Type ase:IndexInvestigationCode (enumerated) (§5.92 on page 104)—for business rules, see [B2BMDP 2.10.1]
InvestigationDescription	VerifyRequestData/InvestigationDescription	Type ase:SpecialComments (complex) (§5.207 on page 148)
MDPID	/aseXML/Header/To	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
MeterSerial	VerifyRequestData/NMIStandingData	Type ase:MeterSerialNumber (string ≤ 12 chars.) (§5.141 on

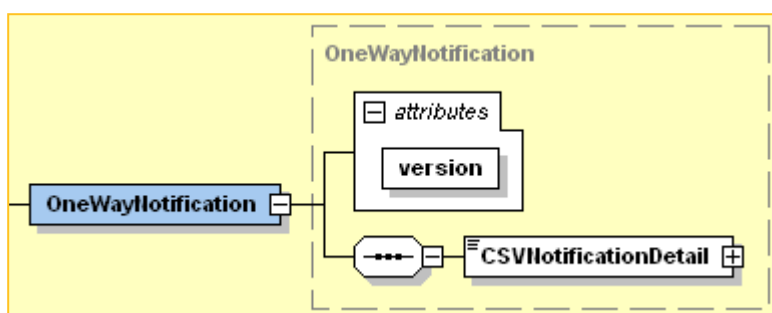
Business Item	XPath to aseXML node	aseXML type and restrictions
	/MeterRegister/Meter/SerialNumber	page 123); nillable="true" minOccurs="0"
MeterSerialNumber	VerifyRequestData/NMIStandingData /MeterRegister/Meter/SerialNumber	Type ase:MeterSerialNumber (string ≤ 12 chars.) (§5.141 on page 123); nillable="true" minOccurs="0"
NMI	VerifyRequestData/NMI	Type ase:NMIBase (string ≤ 10 chars.) (§5.158 on page 127)
NMICheckSum	VerifyRequestData/NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"
NMIConfiguration	VerifyRequestData/NMIConfiguration	Type ase:NMIConfigurationType (complex) (§5.161 on page 128); minOccurs="0"
NMISuffix	VerifyRequestData/NMIConfiguration /NMISuffix	Type ase:NMIDataStreamSuffix (string = 2 chars.) (§5.162 on page 129); maxOccurs="unbounded"
ParticipantID (usage 1)	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
ParticipantID (usage 2)	RoleAssignments/RoleAssignment/Party	Type ase:PartyIdentifier (complex) (§5.169 en page 132); nillable="true" minOccurs="0"
ParticipantRole	RoleAssignments/RoleAssignment/Role	
RegisterID	VerifyRequestData/NMIStandingData /MeterRegister/Meter /RegisterConfiguration/Register/RegisterID	Type ase:MeterRegisterIdentifier (string ≤ 10 chars.) (§5.137 on page 122); minOccurs="0"
RequestID (usage 1)	/aseXML/Transactions/Transaction @transactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153); use="required"
RequestID (usage 2)	/aseXML/Transactions/Transaction @initiatingTransactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153); use="optional"
Severity	/aseXML/Acknowledgements /TransactionAcknowledgement/Event @severity	Type ase:EventSeverity (enumerated) (§5.83 on page 101), use="optional" default="Fatal"
StartReadDate	VerifyRequestData/RequestPeriod /BeginDate	xsd:date
Status	/aseXML/Acknowledgements /TransactionAcknowledgement@status	Type ase:TransactionStatus (enumerated) (§5.215 on page 154); use="required"

2.3 One Way Notification Process

The list of business documents is in the Meter Data Process [B2BOWNP 1.9.2 a]. The following table is in alphabetical sequence of Business Document. The aseXML Transactions are relative to ase:aseXML/Transactions/Transaction:

Business Document	XPath to aseXML node	Transaction version
OneWayNotification	OneWayNotification	r25

The one business document is implemented in one aseXML transaction.

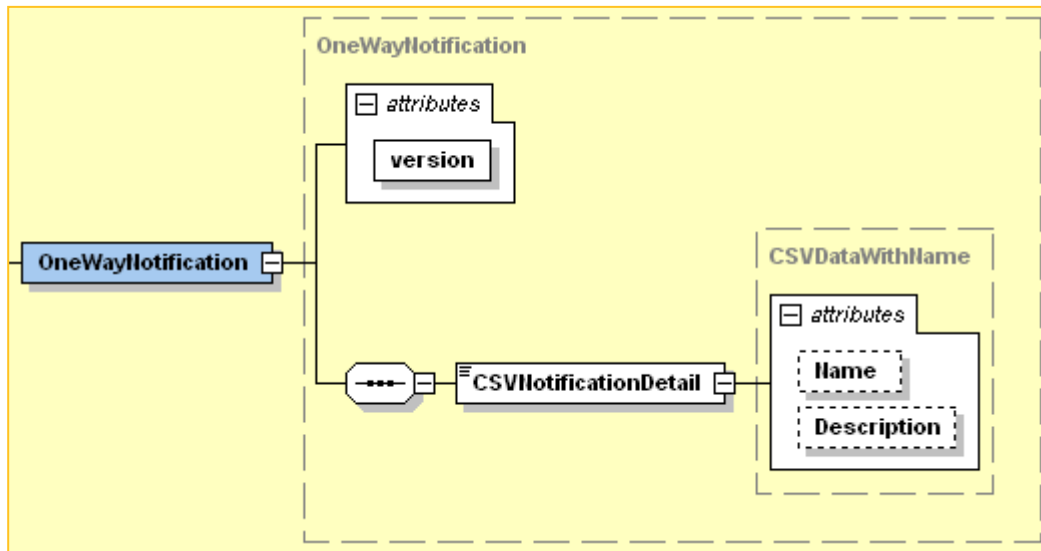


2.3.1 OneWayNotification business document

The reference to the business items, data groups and data values relevant to the aseXML implementation of the OneWayNotification business document are:

- [B2BOWNP 5] Transactions.

The element in aseXML implementing the OneWayNotification business document has the XPath is /aseXML/Transactions/Transaction/OneWayNotification, with the short name of ase:OneWayNotification.



In alphabetical sequence of business item in the OneWayNotification business document, the following table provides the mapping to aseXML, with each XPath relative to ase:OneWayNotification:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:OneWayNotification (complex) §5.167 on page 131
	/aseXML	See message (§6 on page 157)
	/aseXML/Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
	/aseXML/Acknowledgements/TransactionAcknowledgement	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Acknowledgements/TransactionAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98); minOccurs="0" maxOccurs="unbounded"
	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Code	Type ase:EventCode (complex) (§5.79 on page 99)
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	@version	r25—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)—use="required"
Context	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Context	Type ase:EventContext (string ≤ 80 chars.) (§5.81 on page 100); minOccurs="0"
CSVNotificationDetail	CSVNotificationDetail	Type ase:CSVDataWithName (complex) (§5.44 on page 76)—xsd:string
EventCode	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Code	Type ase:EventCodeBase (nonNegativeInteger) (§5.80 on page 100)

Business Item	XPath to aseXML node	aseXML type and restrictions
EventCode Description	/aseXML/Acknowledgements /TransactionAcknowledgement/Event/Code@description	xsd:string; use="optional"
Explanation	/aseXML/Acknowledgements /TransactionAcknowledgement/Event/Explanation	xsd:string; minOccurs="0"
FromParticipantID	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
KeyInfo	/aseXML/Acknowledgements /TransactionAcknowledgement/Event/KeyInfo	Type ase:EventKeyInfo (string ≤ 80 chars.) (§5.82 on page 100); minOccurs="0"
Message Name	CSVNotificationDetail@Name	Type ase:NonZeroLengthString (string ≥ 1 char.) (§5.166 on page 130)— maxLength value="10"
Message Type	CSVNotificationDetail@Description	Type ase:NonZeroLengthString (string ≥ 1 char.) (§5.166 on page 130)— maxLength value="80"
Priority	/aseXML/Header/Priority	Type ase:TransactionPriority (enumerated) (§5.213 on page 154); minOccurs="0"
Status	/aseXML/Acknowledgements /TransactionAcknowledgement@status	Type ase:TransactionStatus (enumerated) (§5.215 on page 154); use="required"
ToParticipantID	/aseXML/Header/To	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
TransactionGroup	/aseXML/Header/TransactionGroup	Type ase:TransactionGroup (enumerated) (§5.211 on page 152)

2.4 RoLR Process

The RoLR Process introduces no additional business documents. The RoLR Process uses business documents defined in other B2B Procedures.

The references to the business items, data groups and data values relevant to the RoLR Process are:

- [RoLR 102.3] Suspended Retailer Obligations.

In alphabetical sequence of business item in the RoLR Process, the following table provides the mapping to aseXML, with each XPath relative to ase:Transaction:

Business Item	XPath to aseXML node	aseXML type and restrictions
	AmendSiteAddressDetails	Type ase:SiteAddressDetails (complex) (§5.204 on page 146)
	AmendSiteAddressDetails/Address	Type ase:Address (complex) (§5.4 on page 56)
	AmendSiteAddressDetails/Address/ AustralianAddress	Type ase:AustralianAddress (complex) (§5.8 on page 58)
	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress	Type ase:AustralianStructuredAddressComponents (complex) (§5.31 on page 68)
	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress /FlatOrUnit	xsd:complexType, sequence; see Note 1 on page 69; minOccurs="0"
	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress /FloorOrLevel	xsd:complexType, sequence; see Note 2 on page 69; minOccurs="0"

Business Item	XPath to aseXML node	aseXML type and restrictions
	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/House	xsd:complexType, sequence; see Note 3 on page 70; nillable="true" minOccurs="0" maxOccurs="2"
	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Lot	xsd:complexType, sequence; see Note 4 on page 70; minOccurs="0"
	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street	xsd:complexType, sequence; see Note 5 on page 70; minOccurs="0" maxOccurs="2"
	AmendSiteAddressDetails/Address/AustralianAddress/UnstructuredAddress	xsd:complexType, sequence: see Note on page 59
	CustomerDetailsNotification/	Type ase:CustomerDetailsNotification (complex) (§5.48 on page 78)
	CustomerDetailsNotification/Customer	Type ase:CustomerData (complex) (§5.46 on page 77)
	CustomerDetailsNotification/Customer/ConcessionCard	Type ase:ConcessionCard (complex) (§5.42 on page 75); minOccurs="0"
	CustomerDetailsNotification/Customer/CustomerDetail	Type ase:CustomerDetail (complex) (§5.47 on page 77); minOccurs="0"
	CustomerDetailsNotification/Customer/CustomerDetail/ContactName	Type ase:PersonName (complex) (§5.170 on page 133)
	CustomerDetailsNotification/Customer/CustomerDetail/PersonName	Type ase:PersonName (complex) (§5.170 on page 133)
	CustomerDetailsNotification/Customer/CustomerDetail/PhoneNumber	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress	Type ase:Address (complex) (§5.4 on page 56)
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress	Type ase:AustralianAddress (complex) (§5.8 on page 58)
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress	Type ase:AustralianStructuredAddressComponents (complex) (§5.31 on page 68)
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/UnstructuredAddress	xsd:complexType, sequence: see Note on page 59
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress/FlatOrUnit/	xsd:complexType, sequence; see Note 1 on page 69; minOccurs="0"
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress/House	xsd:complexType, sequence; see Note 3 on page 70; minOccurs="0" maxOccurs="2"
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress/Lot	xsd:complexType, sequence; see Note 4 on page 70; minOccurs="0"
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress/Street	xsd:complexType, sequence; minOccurs="0" maxOccurs="2"—see Note 5 on page 70
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress/PostalDelivery	xsd:complexType, sequence; minOccurs="0"—see Note 6 on page 70
	CustomerDetailsNotification/Customer/CustomerDetail/PostalAddress/AustralianAddress/StructuredAddress/PostalDelivery/PostalDeliveryNumber	xsd:complexType, sequence; minOccurs="0"—see Note 6 on page 70
BusinessContactNameTitle	CustomerDetailsNotification/Customer/CustomerDetail/ContactName/NameTitle	Type ase:PersonNameTitle (string ≤ 12 chars.) (§5.174 on page 134); maxOccurs="unbounded"
BusinessContactPersonNameFamily	CustomerDetailsNotification/Customer	Type ase:PersonNameFamily (string ≤ 40

Business Item	XPath to aseXML node	aseXML type and restrictions
	/CustomerDetail/ContactName/FamilyName	chars.) (§5.171 on page 133)
BusinessContactPersonNameGiven	CustomerDetailsNotification/Customer/ CustomerDetail/ContactName/GivenName	Type ase:PersonNameGiven (string ≤ 40 chars.) (§5.172 on page 134); maxOccurs="unbounded"
BusinessName	CustomerDetailsNotification/Customer/ CustomerDetail/BusinessName	Type ase:BusinessName (complex) (§5.39 on page 74)
Contact1PhoneNumber	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[1]/Number	Type ase:AustralianTelephoneNumber (string ≤ 15 chars.) (§5.34 on page 73)
Contact1PhonePrefix	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[1]/Prefix	Type ase:AustralianTelephonePrefix (string ≤ 4 chars.) (§5.35 on page 73)
Contact1PhoneServiceComment	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[1] /ServiceComment	Type ase:AustralianTelephoneServiceComment (string ≤ 40 chars.) (§5.36 on page 73); minOccurs="0"
Contact1PhoneServiceType	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[1] @serviceType	Type ase:AustralianTelephoneServiceType (enumerated list) (§5.37 on page 74); use="required"
Contact2PhoneNumber	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[2]/Number	Type ase:AustralianTelephoneNumber (string ≤ 15 chars.) (§5.34 on page 73)
Contact2PhonePrefix	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[2]/Prefix	Type ase:AustralianTelephonePrefix (string ≤ 4 chars.) (§5.35 on page 73)
Contact2PhoneServiceComment	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[2] /ServiceComment	Type ase:AustralianTelephoneServiceComment (string ≤ 40 chars.) (§5.36 on page 73); minOccurs="0"
Contact2PhoneServiceType	CustomerDetailsNotification/Customer /CustomerDetail/PhoneNumber[2] @serviceType	Type ase:AustralianTelephoneServiceType (enumerated list) (§5.37 on page 74); use="required"
CustomerIdentification		
CustomerNamePersonNameFamily	CustomerDetailsNotification/Customer /CustomerDetail/PersonName/FamilyName	Type ase:PersonNameFamily (string ≤ 40 chars.) (§5.171 on page 133)
CustomerNamePersonNameGiven	CustomerDetailsNotification/Customer /CustomerDetail/PersonName/GivenName	Type ase:PersonNameGiven (string ≤ 40 chars.) (§5.172 on page 134); maxOccurs="unbounded"
CustomerNamePersonNameTitle	CustomerDetailsNotification/Customer /CustomerDetail/PersonName/NameTitle	Type ase:PersonNameTitle (string ≤ 12 chars.) (§5.174 on page 134); maxOccurs="unbounded"
DateOfBirth		
FromDate	CustomerDetailsNotification/Customer/ ConcessionCard/FromDate	xsd:date; minOccurs="0"
NMI	CustomerDetailsNotification/Customer/NMI	Type ase:NMI (complex) (§5.157 on page 127)
NMIChecksum	CustomerDetailsNotification/Customer/NMI @checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128); use="optional"
PensionHealthCardNumber	CustomerDetailsNotification/Customer /ConcessionCard/Number	xsd:string; maxLength value="10"
PostalBuildingOrPropertyName1	CustomerDetailsNotification/Customer /CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /BuildingOrPropertyName[1]	Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.) (§5.10 on page 60); nillable="true" minOccurs="0" maxOccurs="2"
PostalBuildingOrPropertyName2	CustomerDetailsNotification/Customer /CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /BuildingOrPropertyName[2]	Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.) (§5.10 on page 60); nillable="true" minOccurs="0" maxOccurs="2"
PostalDeliveryNumberPrefix	CustomerDetailsNotification/Customer /CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /PostalDelivery/PostalDeliveryNumber	Type ase:AustralianPostalDeliveryNumberPrefix (string with pattern) (§5.22 on page 64);

Business Item	XPath to aseXML node	aseXML type and restrictions
	/PostalDeliveryNumberPrefix	nillable="true" minOccurs="0"
PostalDeliveryNumberSuffix	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /PostalDelivery/PostalDeliveryNumber /PostalDeliveryNumberSuffix	Type ase:AustralianPostalDeliveryNumberSuffix (string with pattern) (§5.23 on page 65); nillable="true" minOccurs="0"
PostalDeliveryNumberValue	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /PostalDelivery/PostalDeliveryNumber /PostalDeliveryNumberValue	Type ase:AustralianPostalDeliveryNumberValue (integer, 0-99999 incl.) (§5.24 on page 65); nillable="true" minOccurs="0"
PostalDeliveryType	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /PostalDelivery/PostalDeliveryType	Type ase:AustralianPostalDeliveryType (enumerated list) (§5.25 on page 65); nillable="true"
PostalFlatOrUnitNumber	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /FlatOrUnit/FlatOrUnitNumber	Type ase:AustralianFlatOrUnitNumber (string with pattern) (§5.12 on page 60); nillable="true"
PostalFlatOrUnitType	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /FlatOrUnit/FlatOrUnitType	Type ase:AustralianFlatOrUnitType (enumerated list) (§5.13 on page 61); nillable="true"
PostalFloorOrLevelNumber	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /FlatOrUnit/FloorOrLevelNumber	Type ase:AustralianFloorOrLevelNumber (string with pattern) (§5.14 on page 61); nillable="true" minOccurs="0"
PostalFloorOrLevelType	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /FlatOrUnit/FloorOrLevelType	Type ase:AustralianFloorOrLevelType (enumerated list) (§5.15 on page 61); nillable="true"
PostalHouseNumber1	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /House[1]/HouseNumber	Type ase:AustralianHouseNumber (integer, 0-99999 incl.) (§5.16 on page 62); nillable="true"
PostalHouseNumber2	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /House[2]/HouseNumber	Type ase:AustralianHouseNumber (integer, 0-99999 incl.) (§5.16 on page 62); nillable="true"
PostalHouseNumberSuffix1	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /House[1]/HouseNumberSuffix	Type ase:AustralianHouseNumberSuffix (string with pattern) (§5.17 on page 62); nillable="true" minOccurs="0"
PostalHouseNumberSuffix2	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /House[2]/HouseNumberSuffix	Type ase:AustralianHouseNumberSuffix (string with pattern) (§5.17 on page 62); nillable="true" minOccurs="0"
PostalLocationDescriptor	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /LocationDescriptor	Type ase:AustralianLocationDescriptor (string with pattern) (§5.18 on page 62); nillable="true" minOccurs="0"
PostalLotNumber	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress/Lot /LotNumber	Type ase:AustralianLotNumber (string with pattern) (§5.19 on page 62); nillable="true"
PostalPostcode	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/PostCode	Type ase:AustralianPostCode (string with pattern) (§5.26 on page 66)
PostalStateOrTerritory	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StateOrTerritory	Type ase:AustralianStateOrTerritory (enumerated list) (§5.27 on page 66)
PostalStreetName1	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress	Type ase:AustralianStreetName (string with pattern) (§5.28 on page 66); nillable="true"

Business Item	XPath to aseXML node	aseXML type and restrictions
	/Street[1]/StreetName	
PostalStreetName2	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /Street[2]/StreetName	Type ase:AustralianStreetName (string with pattern) (§5.28 on page 66); nillable="true"
PostalStreetSuffix1	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /Street[1]/StreetSuffix	Type ase:AustralianStreetSuffix (enumerated list) (§5.29 on page 66); nillable="true" minOccurs="0"
PostalStreetSuffix2	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /Street[2]/StreetSuffix	Type ase:AustralianStreetSuffix (enumerated list) (§5.29 on page 66); nillable="true" minOccurs="0"
PostalStreetType1	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /Street[1]/StreetType	Type ase:AustralianStreetType (enumerated list) (§5.30 on page 67); nillable="true" minOccurs="0"
PostalStreetType2	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/StructuredAddress /Street[2]/StreetType	Type ase:AustralianStreetType (enumerated list) (§5.30 on page 67); nillable="true" minOccurs="0"
PostalSuburbOrPlaceOrLocality	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/SuburbOrPlaceOrLocality	Type ase:AustralianSuburbOrPlaceOrLocality (string ≤ 46 chars.) (§5.33 on page 73); nillable="true" minOccurs="0"
PostalUnstructuredAddress1	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/UnstructuredAddress /AddressLine[1]	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60); nillable="true" maxOccurs="3"
PostalUnstructuredAddress2	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/UnstructuredAddress /AddressLine[2]	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60); nillable="true" maxOccurs="3"
PostalUnstructuredAddress3	CustomerDetailsNotification/Customer/ CustomerDetail/PostalAddress /AustralianAddress/UnstructuredAddress /AddressLine[3]	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60); nillable="true" maxOccurs="3"
RebateCode	CustomerDetailsNotification/Customer/ ConcessionCard@rebateType	Type ase:RebateType (enumerated list) (§5.180 on page 136); use="optional"
SensitiveLoad	CustomerDetailsNotification/Customer/ /SensitiveLoad	Type ase:SensitiveLoadType (enumerated list) (§5.190 on page 139)
SiteAddressPostcode	AmendSiteAddressDetails/Address /AustralianAddress/PostCode	Type ase:AustralianPostCode (string with pattern) (§5.26 on page 66)
SiteAddressState	AmendSiteAddressDetails/Address /AustralianAddress/StateOrTerritory	Type ase:AustralianStateOrTerritory (enumerated list) (§5.27 on page 66)
SiteBuildingOrPropertyName1	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress /BuildingOrPropertyName[1]	Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.) (§5.10 on page 60); nillable="true" minOccurs="0" maxOccurs="2"
SiteBuildingOrPropertyName2	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress /BuildingOrPropertyName[2]	Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.) (§5.10 on page 60); nillable="true" minOccurs="0" maxOccurs="2"
SiteFlatOrUnitNumber	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress /FlatOrUnit/FlatOrUnitNumber	Type ase:AustralianFlatOrUnitNumber (string with pattern) (§5.12 on page 60); nillable="true"
SiteFlatOrUnitType	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress /FlatOrUnit/FlatOrUnitType	Type ase:AustralianFlatOrUnitType (enumerated list) (§5.13 on page 61); nillable="true"
SiteFloorOrLevelNumber	AmendSiteAddressDetails/Address /AustralianAddress/StructuredAddress	Type ase:AustralianFloorOrLevelNumber (string with pattern) (§5.14 on page 61);

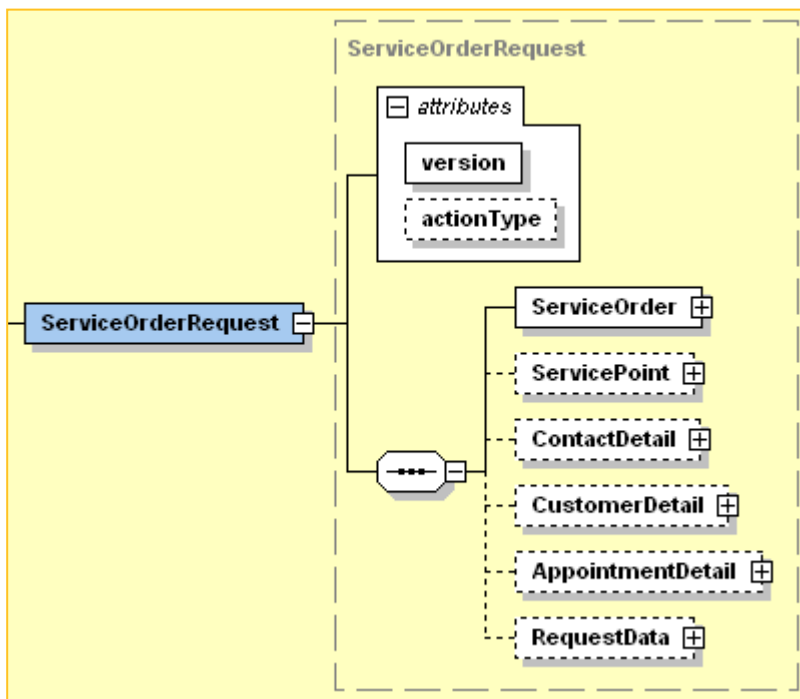
Business Item	XPath to aseXML node	aseXML type and restrictions
	/FloorOrLevel/FloorOrLevelNumber	nillable="true" minOccurs="0"
SiteFloorOrLevelType	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/FloorOrLevel/FloorOrLevelType	Type ase:AustralianFloorOrLevelType (enumerated list) (§5.15 on page 61); nillable="true"
SiteHouseNumber1	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/House[1]/HouseNumber	Type ase:AustralianHouseNumber (integer, 0-99999 incl.) (§5.16 on page 62); nillable="true"
SiteHouseNumber2	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/House[2]/HouseNumber	Type ase:AustralianHouseNumber (integer, 0-99999 incl.) (§5.16 on page 62); nillable="true"
SiteHouseNumberSuffix1	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/House[1]/HouseNumberSuffix	Type ase:AustralianHouseNumberSuffix (string with pattern) (§5.17 on page 62); nillable="true" minOccurs="0"
SiteHouseNumberSuffix2	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/House[2]/HouseNumberSuffix	Type ase:AustralianHouseNumberSuffix (string with pattern) (§5.17 on page 62); nillable="true" minOccurs="0"
SiteLocality	AmendSiteAddressDetails/Address/AustralianAddress/SuburbOrPlaceOrLocality	Type ase:AustralianSuburbOrPlaceOrLocality (string ≤ 46 chars.) (§5.33 on page 73); nillable="true" minOccurs="0"
SiteLocationDescriptor	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/LocationDescriptor	Type ase:AustralianLocationDescriptor (string with pattern) (§5.18 on page 62); nillable="true" minOccurs="0"
SiteLotNumber	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Lot/LotNumber	Type ase:AustralianLotNumber (string with pattern) (§5.19 on page 62); nillable="true"
SiteStreetName1	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street[1]/StreetName	Type ase:AustralianStreetName (string with pattern) (§5.28 on page 66); nillable="true"
SiteStreetName2	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street[2]/StreetName	Type ase:AustralianStreetName (string with pattern) (§5.28 on page 66) nillable="true"
SiteStreetSuffix1	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street[1]/StreetSuffix	Type ase:AustralianStreetSuffix (enumerated list) (§5.29 on page 66); nillable="true" minOccurs="0"
SiteStreetSuffix2	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street[2]/StreetSuffix	Type ase:AustralianStreetSuffix (enumerated list) (§5.29 on page 66); nillable="true" minOccurs="0"
SiteStreetType1	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street[1]/StreetType	Type ase:AustralianStreetType (enumerated list) (§5.30 on page 67); nillable="true" minOccurs="0"
SiteStreetType2	AmendSiteAddressDetails/Address/AustralianAddress/StructuredAddress/Street[2]/StreetType	Type ase:AustralianStreetType (enumerated list) (§5.30 on page 67); nillable="true" minOccurs="0"
SiteUnstructuredAddress1	AmendSiteAddressDetails/Address/AustralianAddress/UnstructuredAddress/AddressLine[1]	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60); nillable="true" maxOccurs="3"
SiteUnstructuredAddress2	AmendSiteAddressDetails/Address/AustralianAddress/UnstructuredAddress/AddressLine[2]	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60); nillable="true" maxOccurs="3"
SiteUnstructuredAddress3	AmendSiteAddressDetails/Address/AustralianAddress/UnstructuredAddress/AddressLine[3]	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60); nillable="true" maxOccurs="3"
ToDate	CustomerDetailsNotification/Customer/ConcessionCard/ToDate	xsd:date; minOccurs="0"

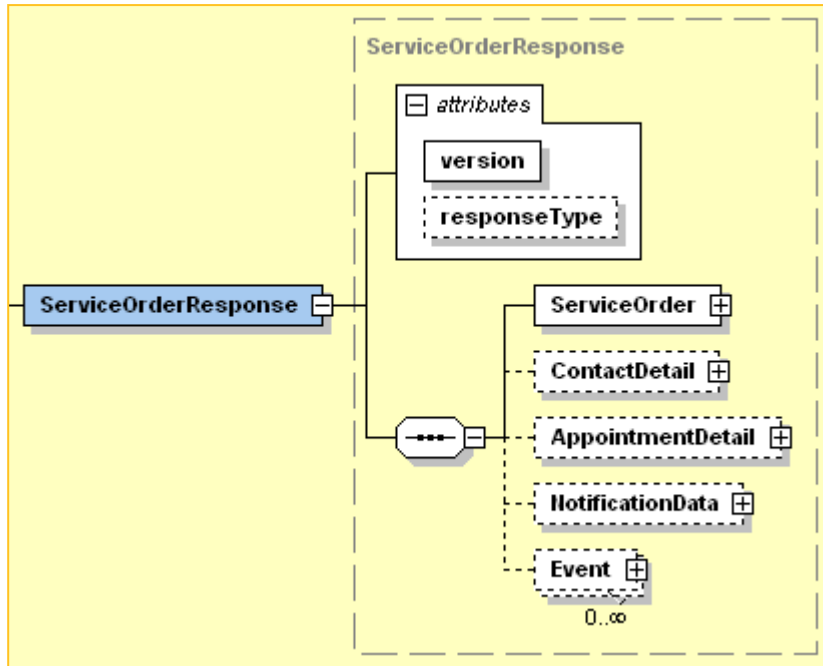
2.5 Service Order Process

The list of business documents is in the B2B Procedure Service Order Process [B2BSOP 1.9.3 a]. The following table is in alphabetical sequence of business document. The aseXML transactions are relative to ase:aseXML/Transactions/Transaction:

Business Document	XPath to aseXML node	Transaction version
ServiceOrderAppointmentNotification	ServiceOrderResponse	r17
ServiceOrderRequest	ServiceOrderRequest	r17
ServiceOrderResponse	ServiceOrderResponse	r17

The three Business Documents are implemented in two aseXML transactions.





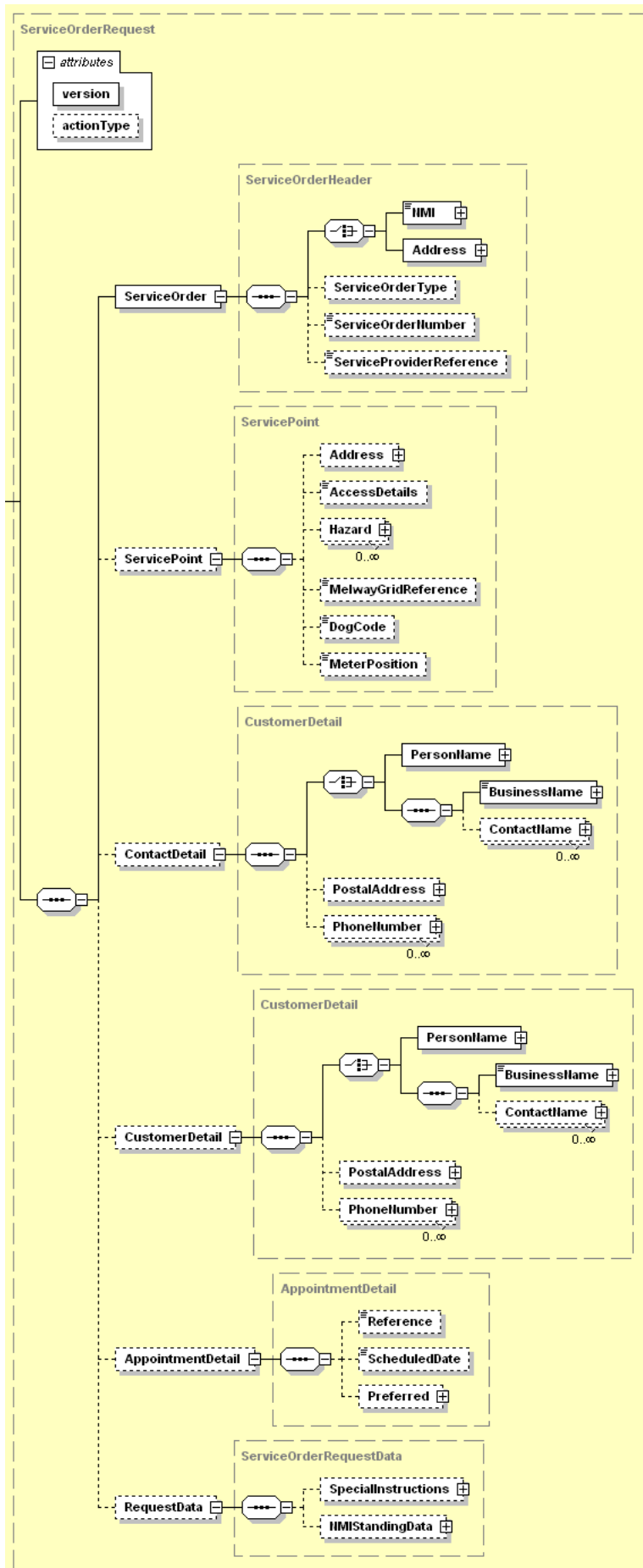
The rest of this section expands on each of the business documents.

2.5.1 ServiceOrderRequest business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the ServiceOrderRequest business document are:

- [B2BSOP 2.2] Process Diagrams.
- {SOP 2.4} Organising an Appointment.
- [B2BSOP 2.5] Acknowledging Receipt of the ServiceOrderRequest.
- [B2BSOP 2.6] Actioning the ServiceOrderRequest.
- [B2BSOP 2.7] Closing the Service Order Process.
- [B2BSOP 2.8] Delivery priorities.
- [B2BSOP 2.9] Works Scheduling.
- [B2BSOP 2.10] Cancelling a ServiceOrderRequest.
- [B2BSOP 2.12] Common business practices.
- [B2BSOP 3.4] Timing requirements for Appointment Notifications (SA).
- [B2BSOP 4.1] ServiceOrderRequest Transaction Data.
- [B2BTDS 4.14 d] Handling of duplicate or resent Transactions and Messages.

The element in aseXML implementing the ServiceOrderRequest business document has the XPath `/aseXML/Transactions/Transaction/ServiceOrderRequest`, with the short name of `ase:ServiceOrderRequest`.



To implement the ServiceOrderRequest business document:

- explicitly use the type ase:ElectricityServiceOrderType for the ase:ServiceOrderType element, like:

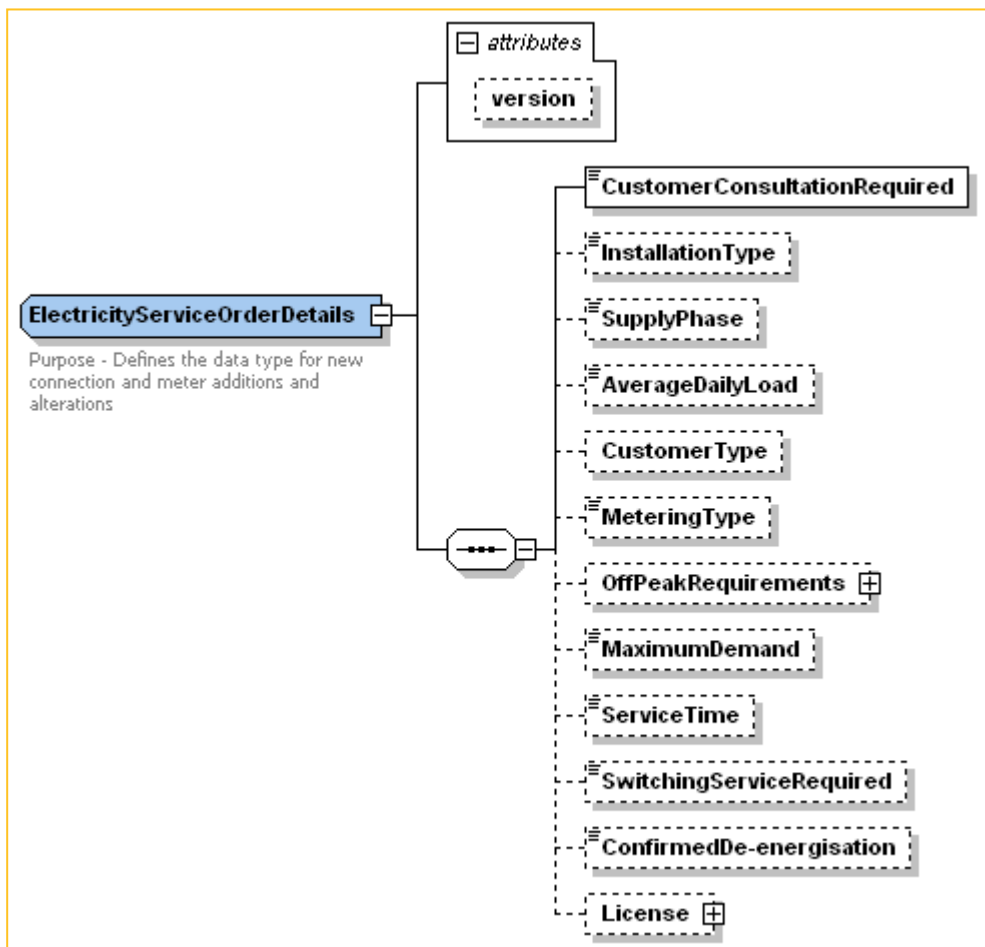
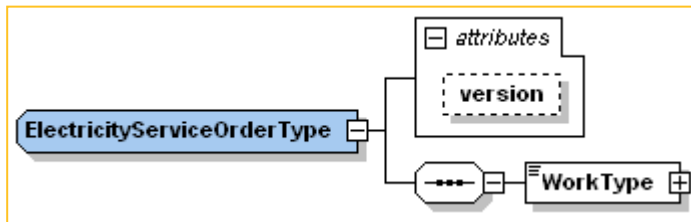
```
<ServiceOrderType xsi:type="ase:ElectricityServiceOrderType">
```

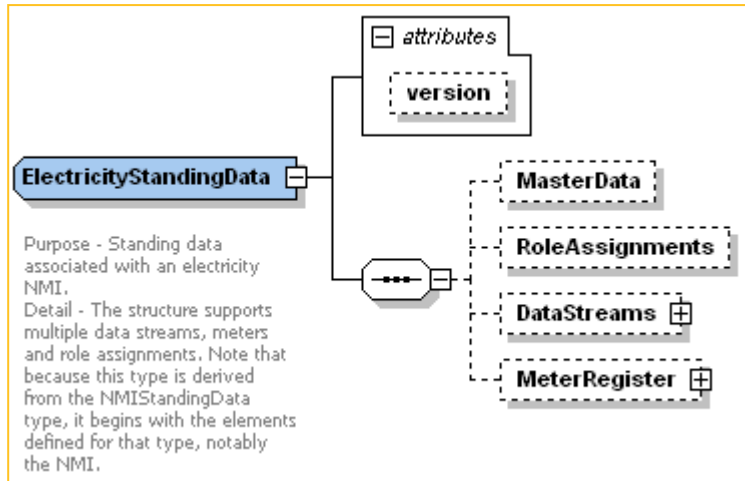
- explicitly use the ase:ElectricityServiceOrderDetails type for the ase:RequestData element, like:

```
<RequestData xsi:type="ase:ElectricityServiceOrderDetails">
```

- explicitly use the ase:ElectricityStandingData type for the ase:NMISstandingData element, like:

```
<NMISstandingData xsi:type="ase:ElectricityStandingData">
```





In alphabetical sequence of business item in the ServiceOrderRequest business document, the following table provides the mapping to aseXML, with each XPath relative to ase:ServiceOrderRequest:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:ServiceOrderRequest (complex) (§5.193 en page 141)
	/aseXML	Type ase:Envelope (complex) (§5.76 on page 97); see also message (§6 on page 157)
	/aseXML/Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
	/aseXML/Acknowledgements/MessageAcknowledgement	Type ase:MessageAcknowledgement (complex) (§5.101 on page 108)
	/aseXML/Acknowledgements/MessageAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98)
	/aseXML/Acknowledgements/TransactionAcknowledgement	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151)
	/aseXML/Acknowledgements/TransactionAcknowledgement/Event	Type ase:Event (complex) (§5.77 on page 98); see also Business Signals (§3 on page 47)
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	/Event	Type ase:Event (complex) (§5.77 on page 98); see also Business Signals (§3 on page 47)
	@version	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
	AppointmentDetail	Type ase:AppointmentDetail (complex) (§5.7 on page 58)
	ContactDetail	Type ase:CustomerDetail (complex) (§5.47 on page 77)
	CustomerDetail	Type ase:CustomerDetail (complex) (§5.47 on page 77)
	RequestData	Type ase:ElectricityServiceOrderDetails (complex) (§5.67 on page 90) implementing (using xsi:type) (abstract) Type ase:ServiceOrderRequestData (complex) (§5.194 on page 142)
	RequestData/License	Type ase:License (complex) (§5.100 on page 107)
	RequestData/License/DocumentReference	Type ase:DocumentReferenceType (complex) (§5.57 en page 81)

Business Item	XPath to aseXML node	aseXML type and restrictions
	RequestData/License/SafetyCertificate	Type ase:SafetyCertificateType (complex) (§5.189 on page 139)
	RequestData/NMIStandingData	Type ase:ElectricityStandingData (complex) (§5.70 on page 94) implementing (using xsi:type) (abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129)
	RequestData/NMIStandingData/MasterData	Type ase:ElectricityMasterStandingData (complex) (§5.60 on page 83)
	RequestData/NMIStandingData/MasterData/CustomerClassificationCode	Type ase:EMSD_CustomerClassificationCode (string 1-20 chars.) (§5.73 on page 96)
	RequestData/NMIStandingData/MasterData/CustomerThresholdCode	Type ase:EMSD_CustomerThresholdCode (string 1-20 chars.) (§5.74 on page 96)
	RequestData/NMIStandingData/MeterRegister	Type ase:ElectricityMeters (complex) (§5.65 on page 89)
	RequestData/NMIStandingData/MeterRegister/Meter	Type ase:ElectricityMeter (complex) (§5.61 on page 84)
	RequestData/NMIStandingData/MeterRegister/Meter/RegisterConfiguration	Type ase:ElectricityMeterRegisterConfiguration (complex) (§5.63 on page 87)
	RequestData/NMIStandingData/MeterRegister/Meter/RegisterConfiguration/Register	Type ase:ElectricityMeterRegisterDetail (complex) (§5.64 on page 88)
	RequestData/NMIStandingData/RoleAssignments	Type ase:RoleAssignments (complex) (§5.187 on page 138)
	RequestData/NMIStandingData/RoleAssignments/RoleAssignment	Type ase:RoleAssignment (complex) (§5.186 on page 138)
	RequestData/NMIStandingData/RoleAssignments/RoleAssignment/Role	Type ase:RoleIdentifier (string, ≤ 4 chars.) (§5.188 on page 138)
	RequestData/SpecialInstructions	Type ase:SpecialComments (complex) (§5.207 on page 148)
	ServiceOrder	Type ase:ServiceOrderHeader (complex) (§5.191 on page 139)
	ServiceOrder/Address	Type ase:Address (complex) (§5.4 on page 56)
	ServiceOrder/Address	Type ase:Address (complex) (§5.4 on page 56)
	ServiceOrder/ServiceOrderType	Type ase:ElectricityServiceOrderType (complex) (§5.69 on page 93) implementing (using xsi:type) (abstract) Type ase:ServiceOrderTypeBase (complex) (§5.199 on page 144)
	ServicePoint	Type ase:ServicePoint (complex) (§5.200 on page 145)
	ServicePoint/Hazard	Type ase:SiteHazard (complex) (§5.205 on page 147)
AccessDetails	ServicePoint/AccessDetails	Type ase:AccessDetail (string ≤ 160 chars.) (§5.1 on page 55)
ActionType	@actionType	Type ase:ActionType (enumerated list) (§5.3 on page 56)
Appointment date	AppointmentDetail/Preferred	Type ase:AppointmentDateTime (complex) (§5.6 on page 57)
AppointmentReference	AppointmentDetail/Reference	Type ase:UniquelIdentifier (string, 1-36 chars.) (§5.217 on page 155)
AverageDailyLoad	RequestData/AverageDailyLoad	Type ase:AveragedDailyLoad (integer) (§5.38 on page 74)
ConfirmedDe-energisation	RequestData/ConfirmedDe-energisation	xsd:boolean
ContactName	CustomerDetail/PersonName	Type ase:PersonName (complex) (§5.170 on

Business Item	XPath to aseXML node	aseXML type and restrictions
		page 133)
ContactTelephoneNumber	CustomerDetail/PhoneNumber	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
CustomerConsultationRequired	RequestData/CustomerConsultationRequired	xsd:boolean
CustomerContactName	CustomerDetail/PersonName	Type ase:PersonName (complex) (§5.170 on page 133)
CustomerContactTelephoneNumber	CustomerDetail/PhoneNumber	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
CustomersPreferredDateAndTime	AppointmentDetail/Preferred	Type ase:AppointmentDateTime (complex) (§5.6 on page 57)
CustomerType	RequestData/CustomerType	Type ase:CustomerType (enumerated list) (§5.51 on page 80)
EmbeddedNetworkParentName	RequestData/NMIStandingData/ParentEmbeddedNetworkIdentifier	Type ase:EmbeddedNetworkIdentifier (string ≤ 10 chars.) (§5.72 on page 96)
EventCode	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Code or /aseXML/Acknowledgements/MessageAcknowledgement/Event/Code or /Event/Code	Type ase:EventCode (complex) (§5.79 on page 99)
Explanation	/aseXML/Acknowledgements/TransactionAcknowledgement/Event/Explanation or /aseXML/Acknowledgements/MessageAcknowledgement/Event/Explanation or /Event/Explanation	xsd:string, minOccurs="0"; see also <i>Business Signals</i> (§3 on page 47)
FormNumber	RequestData/License/DocumentReference/FormNumber	xsd:string, maxLength value="15"
FormReference	RequestData/License/DocumentReference/FormReference	xsd:string, maxLength value="30"
HazardDescription	ServicePoint/Hazard/Description	Type ase:HazardDescription (string ≤ 80 chars.) (§5.89 on page 103)
InstallationType	RequestData/InstallationType	Type ase:InstallationType (enumerated list) (§5.93 on page 104)
MaximumDemand	RequestData/MaximumDemand	Type ase:MeterDemand (integer, 8 digits) (§5.117 on page 117)
MDP	RequestData/NMIStandingData/RoleAssignments/RoleAssignment[Role="MDP"]/Party	Type ase:PartyIdentifier (complex) (§5.169 on page 132)
MeteringRequired	RequestData/MeteringType	Type ase:MeteringType (enumerated list) (§5.121 on page 118)
MeterInstallCode	RequestData/NMIStandingData/MeterRegister/Meter/InstallationTypeCode	Type ase:MeterInstallationTypeCode (string ≤ 8 chars.) (§5.122 on page 118)
MeterSerialNumber	RequestData/NMIStandingData/MeterRegister/Meter/SerialNumber	Type ase:MeterSerialNumber (string ≤ 12 chars.) (§5.141 on page 123)
MPB	RequestData/NMIStandingData/RoleAssignments/RoleAssignment[Role="MPB"]/Party	Type ase:PartyIdentifier (complex) (§5.169 on page 132)
MPC	RequestData/NMIStandingData/RoleAssignments/RoleAssignment[Role="MPC"]/Party	Type ase:PartyIdentifier (complex) (§5.169 on page 132)
NMI	ServiceOrder/NMI	Type ase:NMI (complex) (§5.157 on page 127)
NMIChecksum	ServiceOrder/NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128)
NMIStatusCode	RequestData/NMIStandingData/MasterData/Status	Type ase:NMIStatusCode (string = 1 char.) (§5.164 on page 129)
OffPeakRequirements	RequestData/OffPeakRequirements	Type ase:SpecialComments (complex) (§5.207 on page 148)
Priority	/aseXML/Header/Priority	Type ase:TransactionPriority (enumerated) (§5.213 on page 154), minOccurs="0"

Business Item	XPath to aseXML node	aseXML type and restrictions
ProposedTariff	RequestData/NMIStandingData/MeterRegister/Meter/RegisterConfiguration/Register/NetworkTariffCode	Type ase:NetworkTariffCode (string ≤ 10 chars.) (§5.156 on page 127)
REC-Attendance Required	RequestData/License/AttendanceRequired	xsd:boolean
REC-BusinessName	RequestData/License/BusinessName	Type ase:BusinessName (complex) (§5.39 on page 74)
REC-ID	RequestData/License/LicenseNumber	Type ase:License (complex) (§5.100 on page 107)
REC-Name	RequestData/License/Licensee	Type ase:PersonName (complex) (§5.170 on page 133)
REC-Telephone	RequestData/License/PhoneNumber	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
RetailerContact TelephoneNumber	ContactDetail/PhoneNumber	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
RetailerContactName	ContactDetail/PersonName	Type ase:PersonName (complex) (§5.170 on page 133)
RetailerID	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
RetServiceOrder	ServiceOrder/ServiceOrderNumber	Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)
RP	RequestData/NMIStandingData/RoleAssignments/RoleAssignment[Role="RP"]/Party	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
SafetyCertificate MethodSent	RequestData/License/SafetyCertificate/MethodSent	Type ase:MethodSent (enumerated list) (§5.154 on page 126)
SafetyCertificateId	RequestData/License/SafetyCertificate/ID	Type ase:ShortUniqueIdentifier (string 1-15 chars.) (§5.202 on page 146)
ScheduledDate	AppointmentDetail/ScheduledDate	xsd:date
ServiceOrderAddress	ServiceOrder/Address/AustralianAddress	Type ase:AustralianAddress (complex) (§5.8 on page 58)
ServiceOrderNumber	ServiceOrder/ServiceOrderNumber	Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)
ServiceOrderSubType	ServiceOrder/ServiceOrderType/WorkType @workSubType	Type ase:ServiceOrderSubType (enumerated list) (§5.197 on page 144); see also Type ase:ElectricityServiceOrderType (complex) (§5.69 on page 93)
ServiceOrderType	ServiceOrder/ServiceOrderType/WorkType	Type ase:ServiceOrderType (enumerated list) (§5.198 on page 144); see also Type ase:ElectricityServiceOrderType (complex) (§5.69 on page 93)
ServiceProviderID	/aseXML/Header/To	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
ServiceTime	RequestData/ServiceTime	Type ase:ServiceTimeType (enumerated list) (§5.201 on page 145)
SpecialInstructions	RequestData/SpecialInstructions/CommentLine	Type ase:CommentLine (string ≤ 80 chars.) (§5.43 on page 76)
SupplyPhases	RequestData/SupplyPhase	Type ase:SupplyPhase (enumerated list) (§5.208 on page 148)
SwitchingService Required	RequestData/SwitchingService Required	xsd:Boolean

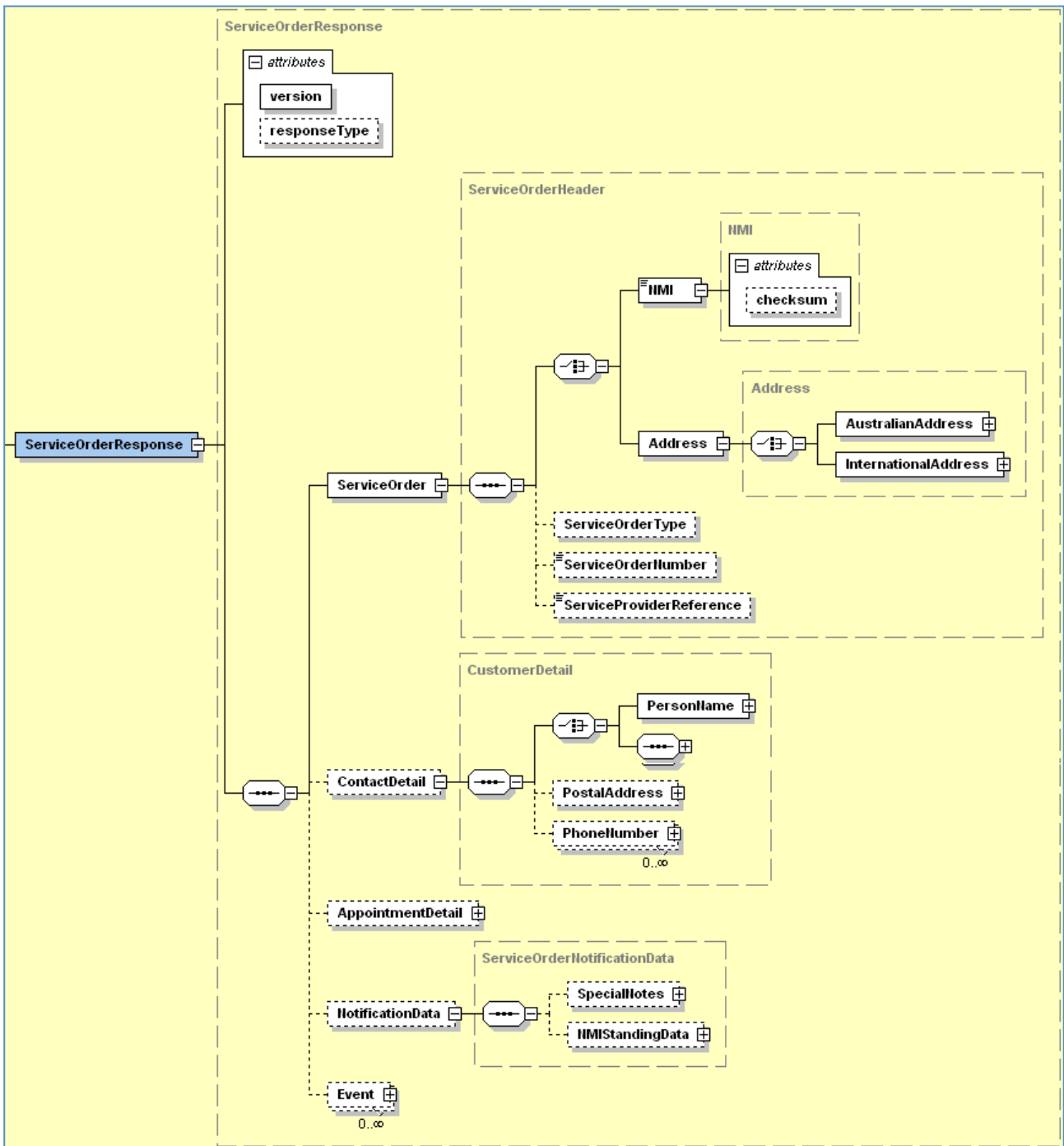
2.5.2 ServiceOrderResponse business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the ServiceOrderResponse business document are:

- [B2BSOP 2.6.5] Use of Status, Exception and Product Codes in ServiceOrderResponses.
- [B2BSOP 2.10] Cancelling a ServiceOrderRequest.

- [B2BSOP 2.12.15.2] Scenario Process Description - Scenarios 1 – 6.
- [B2BSOP 4.2] ServiceOrderResponse Transaction Data.
- [B2BTDS 4.14 d] Handling of duplicate or resent Transactions and Messages.

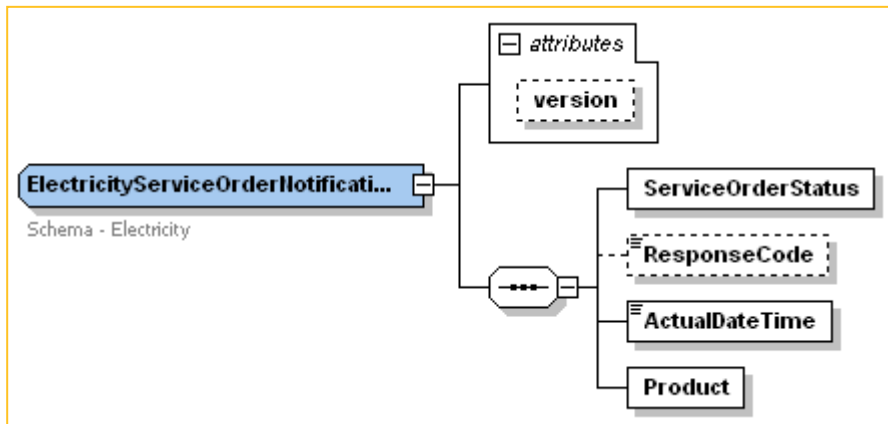
The element in aseXML implementing the ServiceOrderResponse business document has the XPath /aseXML/Transactions/Transaction/ServiceOrderResponse, with the short name of ase:ServiceOrderResponse.



To implement the ServiceOrderResponse business document:

- Explicitly use the type ase:ElectricityServiceOrderNotificationData for the ase:NotificationData element, like:


```
<NotificationData xsi:type="ase:ElectricityServiceOrderNotificationData">
```



In alphabetical sequence of business item in the ServiceOrderResponse business document, the following table provides the mapping to aseXML, with each XPath relative to ase:ServiceOrderResponse:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:ServiceOrderResponse (complex) (§5.195 en page 142)
	/aseXML	Type ase:Envelope (complex) (§5.76 on page 97); see also message (§6 on page 157)
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	@version	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
	ContactDetail	Type ase:CustomerDetail (complex) (§5.47 on page 77)
	NotificationData	Type ase:ElectricityServiceOrderNotificationData (complex) (§5.68 on page 92) implementing (using xsi:type) (abstract) Type ase:ServiceOrderNotificationData (complex) (§5.192 on page 140)
	NotificationData/Product	Type ase:Product (complex) (§5.178 on page 135)
	NotificationData/SpecialNotes	Type ase:SpecialComments (complex) (§5.207 on page 148)
	ServiceOrder	Type ase:ServiceOrderHeader (complex) (§5.191 on page 139)
	ServiceOrder/Address	Type ase:Address (complex) (§5.4 on page 56)
ActualDateAndTime	NotificationData/ActualDateTime	xsd:dateTime
ExceptionCode	NotificationData/ResponseCode	Type ase:SORDResponseCode (enumerated list) (§5.206 on page 147)
NMI	ServiceOrder/NMI	Type ase:NMI (complex) (§5.157 on page 127)
NMIChecksum	ServiceOrder/NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128)
ProductCode	NotificationData/Product/Code	xsd:string, maxLength value="10"
ProductCode1	NotificationData/Product/Code[1]	xsd:string, maxLength value="10"
ProductCode2	NotificationData/Product/Code[2]	xsd:string, maxLength value="10"
ProductCode3	NotificationData/Product/Code[3]	xsd:string, maxLength value="10"
ResponseType	@responseType	Type ase:ResponseType (enumerated) (§5.185 on page 137)
RetailerID	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 on page 127)

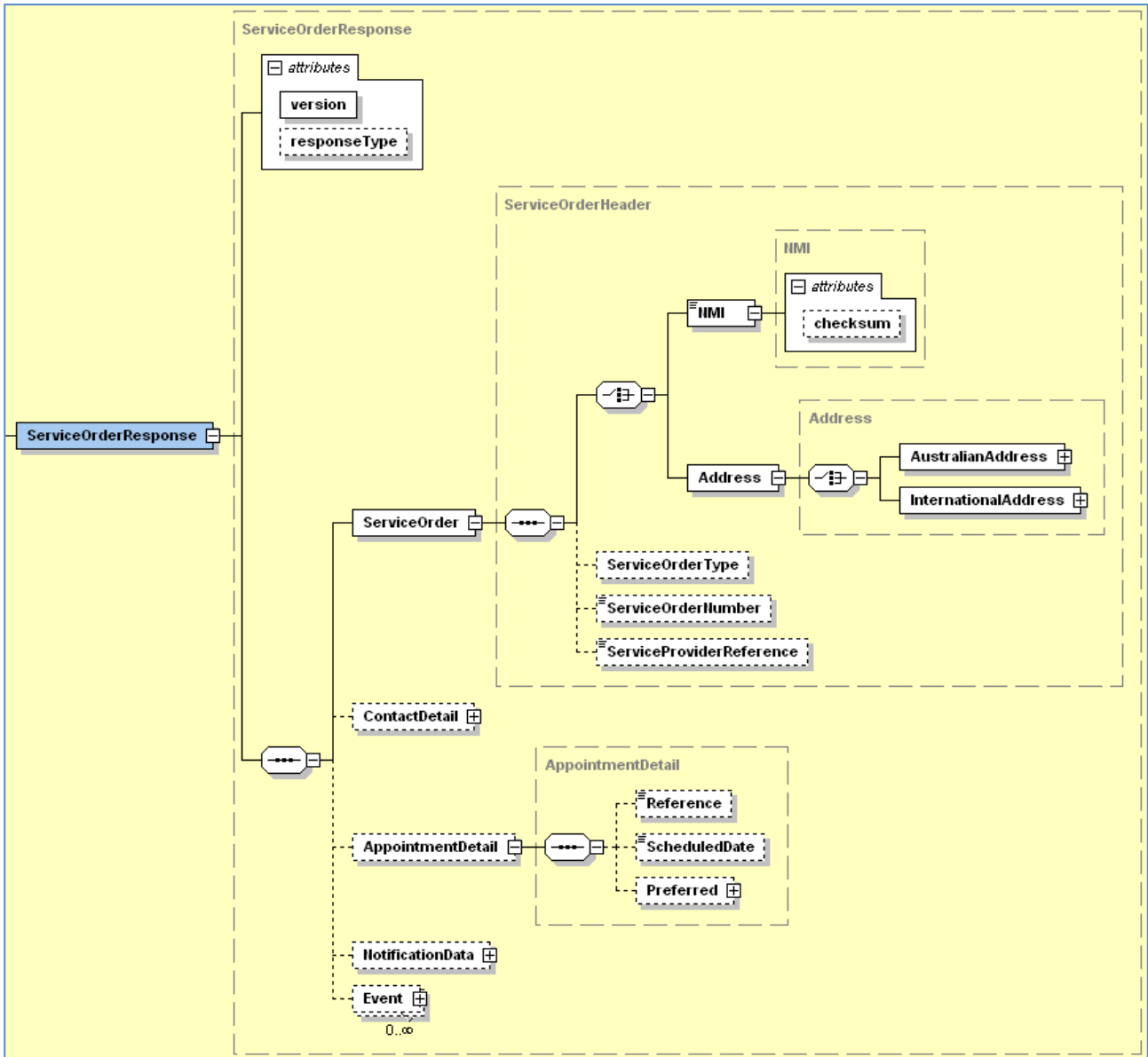
Business Item	XPath to aseXML node	aseXML type and restrictions
		page 132); see also <i>message</i> (§6 on page 157)
RetServiceOrder	ServiceOrder/ServiceOrderNumber	<i>Type ase:UniqueIdentifier (string, 1-36 chars.)</i> (§5.217 on page 155)
ServiceOrderAddress	ServiceOrder/Address/AustralianAddress	<i>Type ase:AustralianAddress (complex)</i> (§5.8 on page 58)
ServiceOrderNumber	ServiceOrder/ServiceOrderNumber	<i>Type ase:UniqueIdentifier (string, 1-36 chars.)</i> (§5.217 on page 155)
ServiceOrderStatus	NotificationData/ServiceOrderStatus	<i>Type ase:ServiceOrderStatus (enumerated list)</i> (§5.196 on page 143)
ServiceProviderContact TelephoneNumber	ContactDetail/PhoneNumber	<i>Type ase:AustralianPhoneNumber (complex)</i> (§5.21 on page 64)
ServiceProviderContactName	ContactDetail/PersonName	<i>Type ase:PersonName (complex)</i> (§5.170 on page 133)
ServiceProviderID	/aseXML/Header/To	<i>Type ase:PartyIdentifier (complex)</i> (§5.169 on page 132); see also <i>message</i> (§6 on page 157)
ServiceProviderReference	ServiceOrder/ServiceProviderReference	<i>Type ase:UniqueIdentifier (string, 1-36 chars.)</i> (§5.217 on page 155)
SpecialNotes	NotificationData/SpecialNotes/CommentLine	<i>Type ase:CommentLine (string ≤ 80 chars.)</i> (§5.43 on page 76)

2.5.3 ServiceOrderAppointmentNotification business document

The references to the business items, data groups and data values relevant to the aseXML implementation of the ServiceOrderAppointmentNotification business document are:

- [B2BSOP 4.3] ServiceOrderAppointmentNotification Transaction Data – SA.
- [B2BTDS 4.14 d] Handling of duplicate or resent Transactions and Messages.

The element in aseXML implementing the ServiceOrderAppointmentNotification business document has the XPath /aseXML/Transactions/Transaction/ServiceOrderResponse, with the short name of ase:ServiceOrderResponse.



In alphabetical sequence of business item in the ServiceOrderAppointmentNotification business document, the following table provides the mapping to aseXML, with each XPath relative to ase:ServiceOrderResponse:

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:ServiceOrderResponse (complex) (§5.195 en page 142)
	/aseXML	Type ase:Envelope (complex) (§5.76 on page 97); see also message (§6 on page 157)
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	@version	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
	AppointmentDetail	Type ase:AppointmentDetail (complex) (§5.7 on page 58)
	ServiceOrder	Type ase:ServiceOrderHeader (complex) (§5.191 on page 139)
	ServiceOrder/Address	Type ase:Address (complex) (§5.4 on page 56)

Business Item	XPath to aseXML node	aseXML type and restrictions
AppointmentReference	AppointmentDetail/Reference	Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)
CustomersPreferredDateAndTime	AppointmentDetail/Preferred	Type ase:AppointmentDateTime (complex) (§5.6 on page 57)
NMI	ServiceOrder/NMI	Type ase:NMI (complex) (§5.157 on page 127)
NMIChecksum	ServiceOrder/NMI@checksum	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128)
ResponseType	@responseType	Type ase:ResponseType (enumerated) (§5.185 on page 137)
RetailerID	/aseXML/Header/From	Type ase:PartyIdentifier (complex) (§5.169 on page 132); see also message (§6 on page 157)
RetServiceOrder	ServiceOrder/ServiceOrderNumber	Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)
ServiceOrderAddress	ServiceOrder/Address/AustralianAddress	Type ase:AustralianAddress (complex) (§5.8 on page 58)
ServiceOrderNumber	ServiceOrder/ServiceOrderNumber	Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)
ServiceProviderID	/aseXML/Header/To	Type ase:PartyIdentifier (complex) (§5.169 on page 132); see also message (§6 on page 157)
ServiceProviderReference	ServiceOrder/ServiceProviderReference	Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)

3 Business Signals

“... Business Signals are mapped onto ... Acknowledgements” (see [B2BTDS2.1 d]).

A business signal is either:

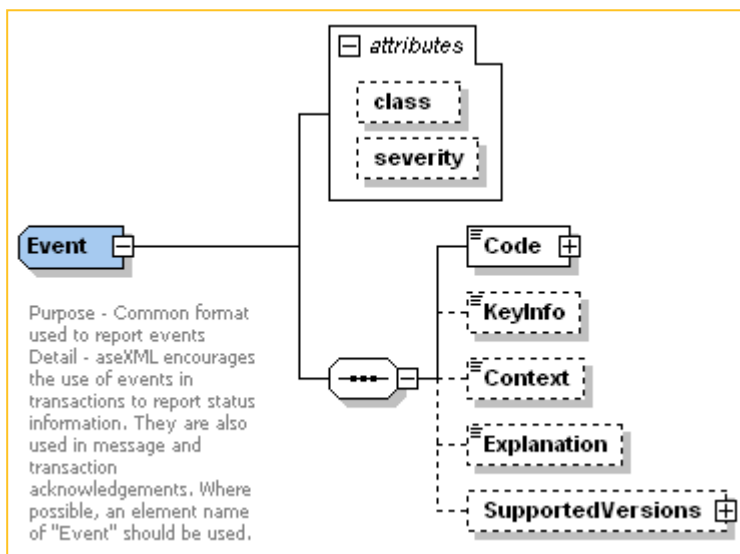
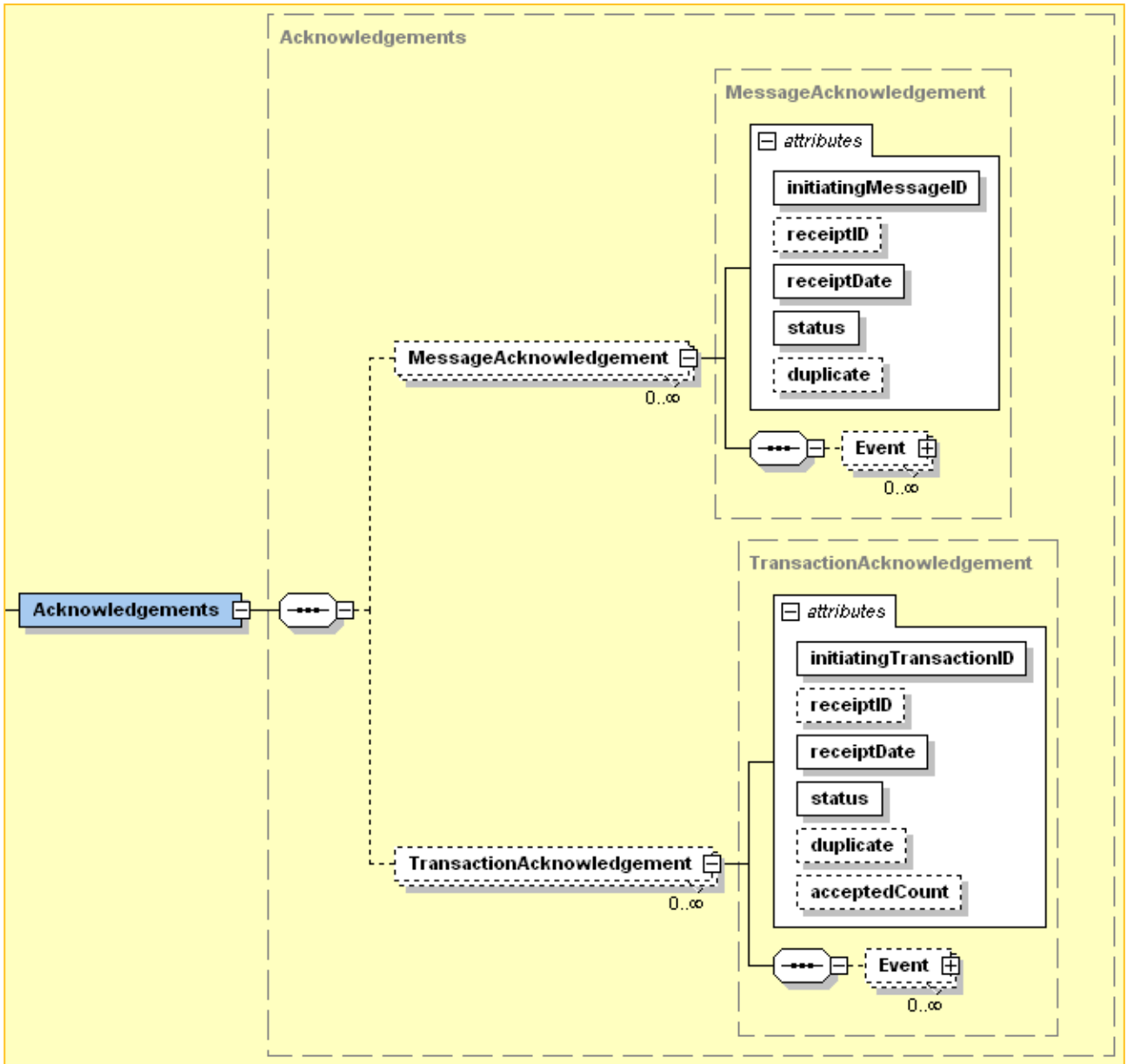
- A BusinessReceipt business document indicating that a business document has been received and its contents indicate if it is readable by the recipient. Effectively, a BusinessReceipt business document is a ‘communication transport layer acknowledgement’ to the sender.
- A BusinessAcceptance/Rejection business document representing formal acceptance or rejection of the business document by the recipient based on the application of business rules.

The references to the business items, data groups and data values relevant to the aseXML implementation of the business signals include:

- [B2BTDS] B2B Procedure B2B Technical Delivery Specification.
- [Ga 10] Acknowledgement Model.

The aseXML acknowledgements are in two forms, being relative to:

- ase:aseXML/Acknowledgements, usable for both BusinessReceipt and BusinessAcceptance/Rejection business documents.
- ase:Event, usable for a BusinessReceipt business document where a single event is sufficient.



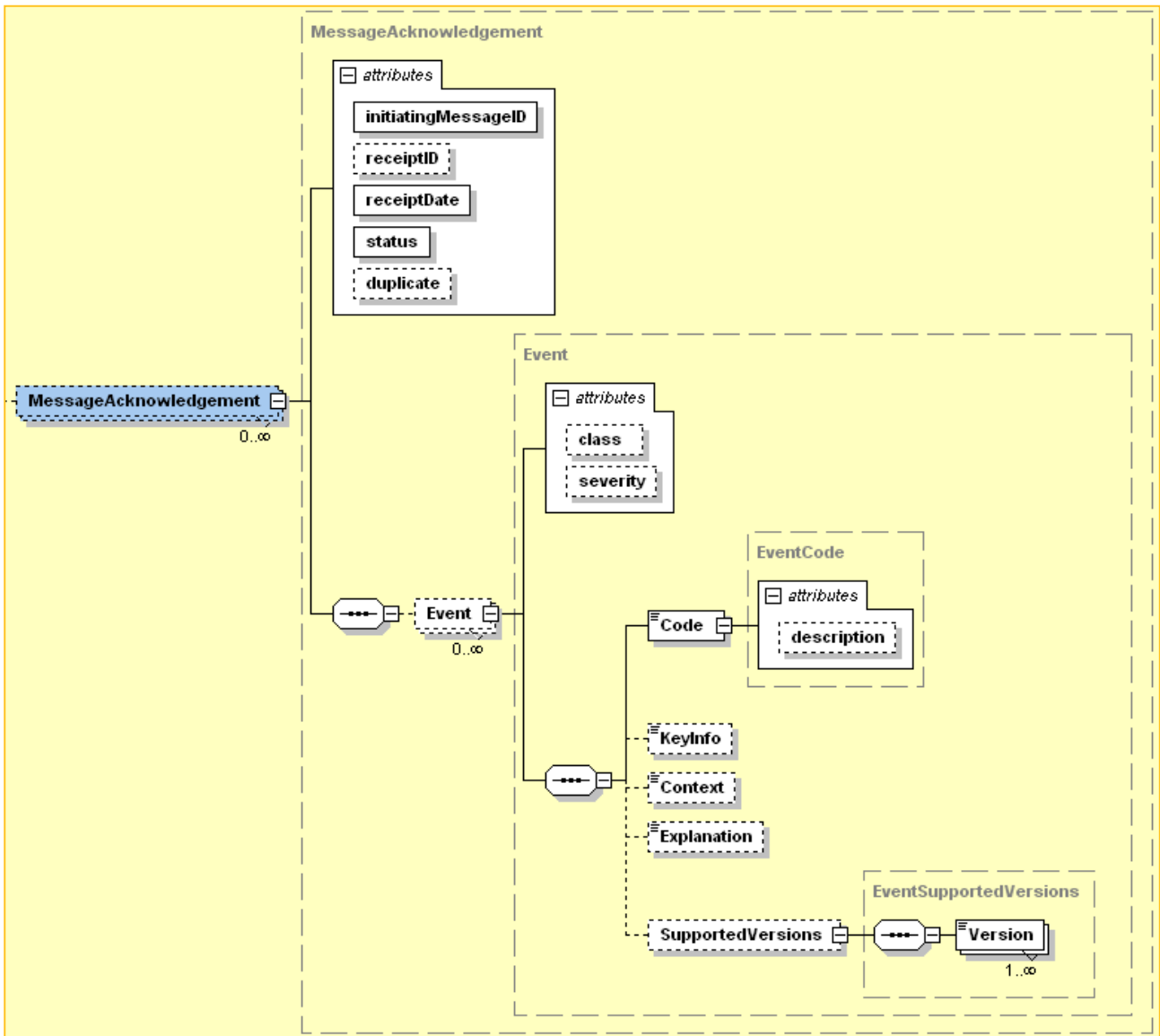
3.1 BusinessReceipt business document

A BusinessReceipt business document has two possible implementations (for example, see [B2BTDS3.2.3.2 c]). These ways use either:

- ase:MessageAcknowledgement.
- ase:Event, usually referred to as a standalone ase:Event.

3.1.1 ase:MessageAcknowledgement

One element in aseXML implementing the BusinessReceipt business document has the XPath of /aseXML/Acknowledgements/MessageAcknowledgement, with the short name of ase:MessageAcknowledgement.

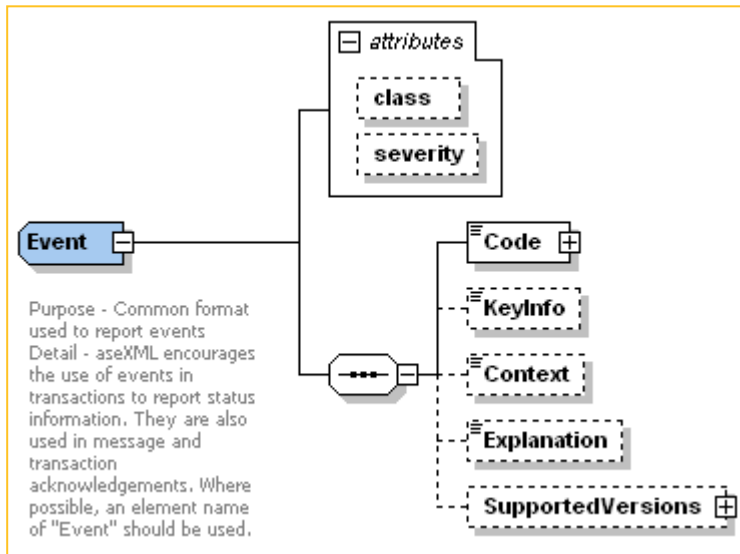


In alphabetical sequence of business item in the BusinessReceipt business document, the following table provides the mapping to aseXML, with each XPath relative to ase:MessageAcknowledgement.

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:MessageAcknowledgement (complex) (§5.101 on page 108)
	/aseXML	Type ase:Envelope (complex) (§5.76 on page 97); see also message (§6 on page 157)
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
Class	Event@class	Type ase:EventClass (enumerated) (§5.78 on page 99), use="optional" default="Application"
Code	Event/Code	Type ase:ActionCode (complex) (§5.79 on page 99)
Context	Event/Context	Type ase:EventContext (string ≤ 80 chars.) (§5.81 on page 100), minOccurs="0"
Duplicate	@duplicate	Type ase:YesNo (enumerated list) (§5.219 on page 156), default="No"
Event	Event	Type ase:Event (complex) (§5.77 on page 98), minOccurs="0" maxOccurs="unbounded"
Event description	Event/Code@description	xsd:string, use="optional"
EventCode	Event/Code	Type ase:ActionCode (complex) (§5.79 on page 99)
EventCodeDescription	Event/Code@description	xsd:string, use="optional"
Explanation	Event/Explanation	xsd:string, minOccurs="0"
initiatingMessageID	@initiatingMessageID	Type ase:MessageIdentifier (string, 1-36 chars.) (§5.102 on page 109), use="required"
KeyInfo	Event/KeyInfo	Type ase:EventKeyInfo (string ≤ 80 chars.) (§5.82 on page 100), minOccurs="0"
MessageDate	/aseXML/Header/MessageDate	xsd:dateTime; see also message (§6 on page 157)
MessageDateTime	/aseXML/Header/MessageDate	xsd:dateTime
MessageID	/aseXML/Header/MessageID	Type ase:MessageIdentifier (string, 1-36 chars.) (§5.102 on page 109)
Priority	/aseXML/Header/Priority	Type ase:TransactionPriority (enumerated) (§5.213 on page 154), minOccurs="0"
ReceiptDate	@receiptDate	xsd:dateTime, use="required"
ReceiptID	@receiptID	Type ase:ReceiptIdentifier (string, 1-36 chars.) (§5.181 on page 136), use="optional"
Severity	Event@severity	Type ase:EventSeverity (enumerated) (§5.83 on page 101), use="optional" default="Fatal"
Status	@status	Type ase:MessageStatus (enumerated) (§5.104 on page 110), use="required"
TransactionGroup	/aseXML/Header/TransactionGroup	Type ase:TransactionGroup (enumerated) (§5.211 on page 152)

3.1.2 ase:Event

One element in aseXML implementing the BusinessReceipt business document has the XPath of /Event, with the short name of ase:Event.



In alphabetical sequence of business item in the BusinessReceipt business document, the following table provides the mapping to aseXML, with each XPath relative to ase:Event.

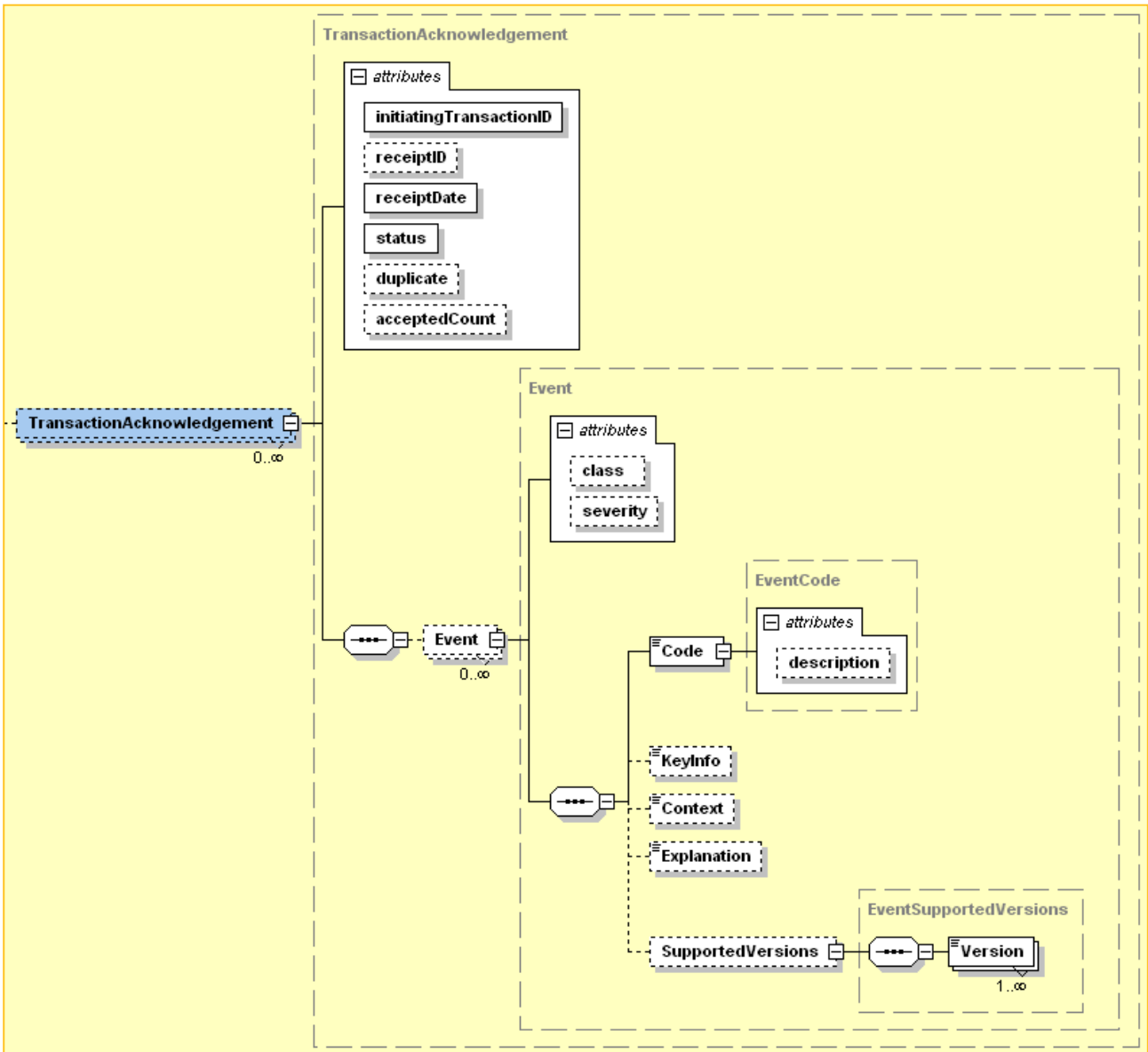
Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:Event (complex) (§5.77 on page 98)
Class	@class	Type ase:EventClass (enumerated) (§5.78 on page 99), use="optional" default="Application"
Code	Code	Type ase:EventCode (complex) (§5.79 on page 99)
Context	Context	Type ase:EventContext (string ≤ 80 chars.) (§5.81 on page 100), minOccurs="0"
Event description	Code@description	xsd:string, use="optional"
EventCode	Code	Type ase:EventCode (complex) (§5.79 on page 99)
EventCodeDescription	Code@description	xsd:string, use="optional"
Explanation	Explanation	xsd:string, minOccurs="0"
KeyInfo	KeyInfo	Type ase:EventKeyInfo (string ≤ 80 chars.) (§5.82 on page 100), minOccurs="0"
Severity	@severity	Type ase:EventSeverity (enumerated) (§5.83 on page 101), use="optional" default="Fatal"

The ase:Event form of message acknowledgement contains an ase:Event element as the top (or root) element. Such an acknowledgement is useful for a single event only. For example:


```
<?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>
```

3.2 BusinessAcceptance/Rejection business document

The element in aseXML implementing the BusinessAcceptance/Rejection business document has the XPath of /aseXML/Acknowledgements/TransactionAcknowledgement, with the short name of ase:TransactionAcknowledgement.



In alphabetical sequence of business item in the BusinessAcceptance/Rejection business document, the following table provides the mapping to aseXML, with each XPath relative to ase:TransactionAcknowledgement.

Business Item	XPath to aseXML node	aseXML type and restrictions
	.	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151)
	/aseXML	Type ase:Envelope (complex) (§5.76 on page 97); see also message (§6 on page 157)
	/aseXML/Header	Type ase:Header (complex) (§5.90 on page 103)
	/aseXML/Transactions	Type ase:Transactions (complex) (§5.214 en page 154)
	/aseXML/Transactions/Transaction	Type ase:Transaction (complex) (§5.209 en page 148)
AcceptedCount	@acceptedCount	xsd:nonNegativeInteger, use="optional"
Business Event	Event/Code@description	xsd:string, use="optional"
Class	Event@class	Type ase:EventClass (enumerated) (§5.78 on page 99), use="optional", default="Application"
Context	Event/Context	Type ase:EventContext (string ≤ 80 chars.) (§5.81 on page 100), minOccurs="0"
Duplicate	@duplicate	Type ase:YesNo (enumerated list) (§5.219 on page 156), default="No"
Event	Event	Type ase:Event (complex) (§5.77 on page 98), minOccurs="0" maxOccurs="unbounded"
Event Code	Event/Code	Type ase:EventCode (complex) (§5.79 on page 99)
EventCode	Event/Code	Type ase:EventCode (complex) (§5.79 on page 99)
EventCodeDescription	Event/Code@description	xsd:string, use="optional"
Explanation	Event/Explanation	xsd:string, minOccurs="0"
InitiatingTransactionID	@initiatingTransactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153), use="required"
KeyInfo	Event/KeyInfo	Type ase:EventKeyInfo (string ≤ 80 chars.) (§5.82 on page 100), minOccurs="0"
MessageDate	/aseXML/Header/MessageDate	xsd:dateTime
Priority	/aseXML/Header/Priority	Type ase:TransactionPriority (enumerated) (§5.213 on page 154), minOccurs="0"
ReceiptDate	@receiptDate	xsd:dateTime, use="required"
ReceiptID	@receiptID	Type ase:ReceiptIdentifier (string, 1-36 chars.) (§5.181 on page 136), use="optional"
Severity	Event@severity	Type ase:EventSeverity (enumerated) (§5.83 on page 101), use="optional" default="Fatal"
Status	@status	Type ase:TransactionStatus (enumerated) (§5.215 on page 154), use="required"
TransactionDateTime	/aseXML/Transactions/Transaction @transactionDate	xsd:dateTime, use="required"
TransactionID	/aseXML/Transactions/Transaction @transactionID	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153)

4 B2B e-Hub Implementation

The implementation of the B2B e-Hub is within the MSATS system, often referred to as the B2B Handler (for example, see [B2BTDS 3.2.3]). The B2B e-Hub has no interest in the business transactions, but needs to read each file to extract the intended recipient. Reading the file involves aseXML validation.

Access to a GUI interface for participant users to process B2B transactions is via the B2B Browser within the MSATS web portal.

As a service to participants, and where specifically set up (see the B2B Browser, B2B Transforms), the B2B e-Hub transforms files conforming to a specific release of the schema to another specific release.

4.1 Hub Acknowledgements

The details of acknowledgements, including hub acknowledgements are described in [B2BTDS 3].

The B2B e-Hub generates a Hub Acknowledgement in the same release of the schema as the received message. Where the schema release of the file cannot be determined by the B2B e-Hub, the B2B e-Hub generates the Hub Acknowledgement in a default schema release. The default schema release may, or may not, be the latest aseXML release.

5 aseXML Types

The aseXML types are in alphabetical sequence, to assist referencing. For an index, refer to the Contents.

These are the types used as the aseXML implementation of the B2B business documents, including all parts down to fundamental XML types.

5.1 Type ase:AccessDetail (string ≤ 160 chars.)

The aseXML documentation for type ase:AccessDetail is:

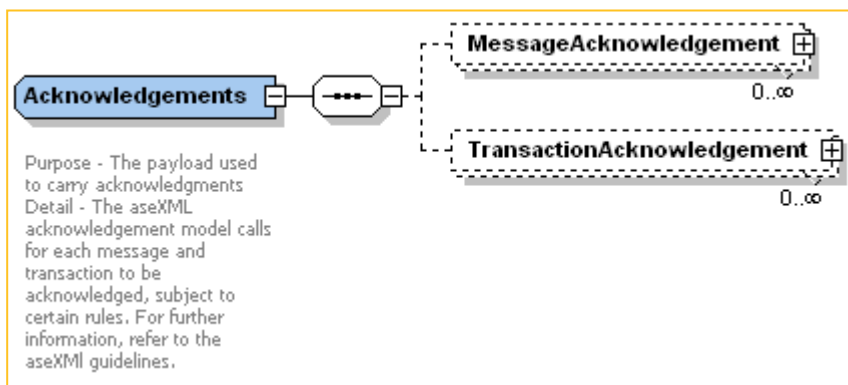
- Classification of High Voltage distribution line feeding property.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AccessDetail	maxLength value="160"	xsd:string

5.2 Type ase:Acknowledgements (complex)

The aseXML documentation for type ase:Acknowledgements is:

- Purpose - The payload used to carry acknowledgments.
- Detail - The aseXML acknowledgement model calls for each message and transaction to be acknowledged, subject to certain rules. For further information, refer to the aseXML guidelines.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Acknowledgements are:

XPath to aseXML node	aseXML node restrictions	aseXML type
MessageAcknowledgement	minOccurs="0" maxOccurs="unbounded"	Type ase:MessageAcknowledgement (complex) (§5.101 on page 108)
TransactionAcknowledgement	minOccurs="0" maxOccurs="unbounded"	Type ase:TransactionAcknowledgement (complex) (§5.210 on page 151)

5.3 Type ase:ActionType (enumerated list)

The aseXML documentation for type ase:ActionType is:

- Purpose - Defines a list of valid update statuses.

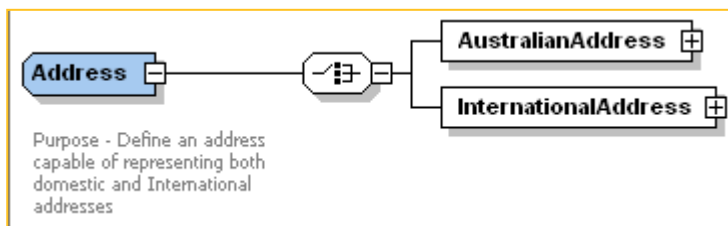
Type ase:ActionType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

New.	Update.	Cancel.	Replace.
------	---------	---------	----------

5.4 Type ase:Address (complex)

The aseXML documentation for type ase:Address is:

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



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Address are:

XPath to aseXML node	aseXML node restrictions	aseXML type
AustralianAddress		Type ase:AustralianAddress (complex) (§5.8 on page 58)
InternationalAddress		Type ase:InternationalAddress (complex) (§5.94 on page 105)

5.5 Type ase:AmendMeterRouteDetails (complex)

The aseXML documentation for type ase:AmendMeterRouteDetails is:

- NEM - B2B Electricity
- Transaction Group: SITE
- Purpose – Provide Site Address Details and Site Access Details. Used for fully tagged transactions using derived types based on NMISstandingData.
- TransactionGroup - SITE

This complex type supports the following business transactions and are grouped as following:

Site Access Information

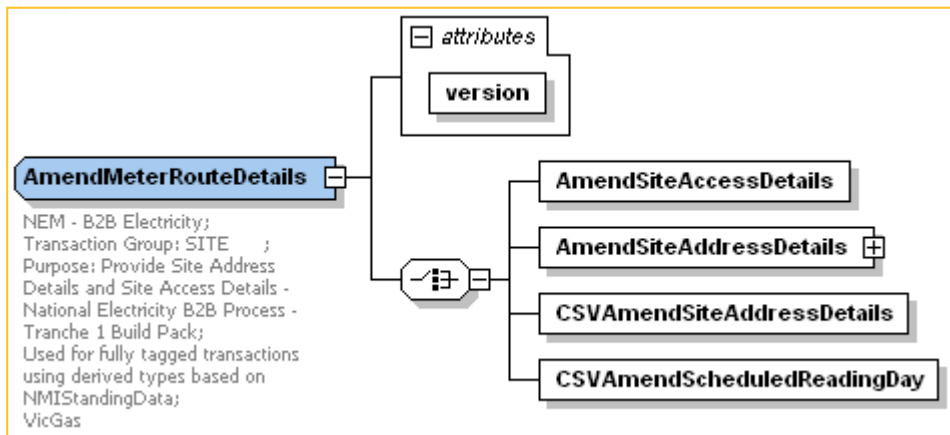
- 66 Meter Site Access Information Change from RB
- 67 Meter Site Access Information Change from DB

Site Address Information

- 68 Supply Point Information
- 69 Address Information Change from DB

Route Change

- 75 Meter Reading Route Change



In alphabetical sequence of XPath, the following table provides a summary of the aseXML details, with each XPath relative to the element using the type ase:AmendMeterRouteDetails:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r19—Type ase:ReleaseIdentifier (string with pattern), §5.183 on page 137)
AmendSiteAccessDetails		(abstract) Type ase:NMISStandingData (complex) (§5.163 on page 129)
AmendSiteAddressDetails		Type ase:SiteAddressDetails (complex) (§5.204 on page 146)
CSVAmendScheduledReadingDay		Type ase:CSVRequestFormat (complex) (§5.45 en page 76)
CSVAmendSiteAddressDetails		Type ase:CSVRequestFormat (complex) (§5.45 en page 76)

5.6 Type ase:AppointmentDateTime (complex)

The aseXML documentation for type ase:AppointmentDateTime is:

- Schema - Appointments

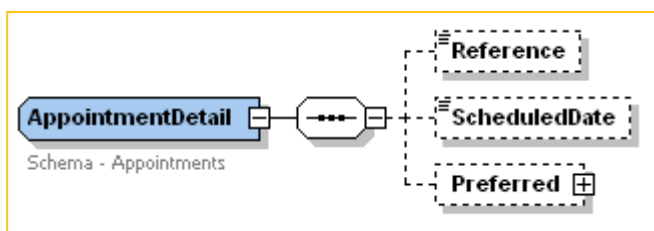
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AppointmentDateTime:

XPath to aseXML node	aseXML node restrictions	aseXML type
Date		xsd:date
Time	minOccurs="0"	xsd:time

5.7 Type ase:AppointmentDetail (complex)

The aseXML documentation for type ase:AppointmentDetail is:

- Schema - Appointments



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AppointmentDetail:

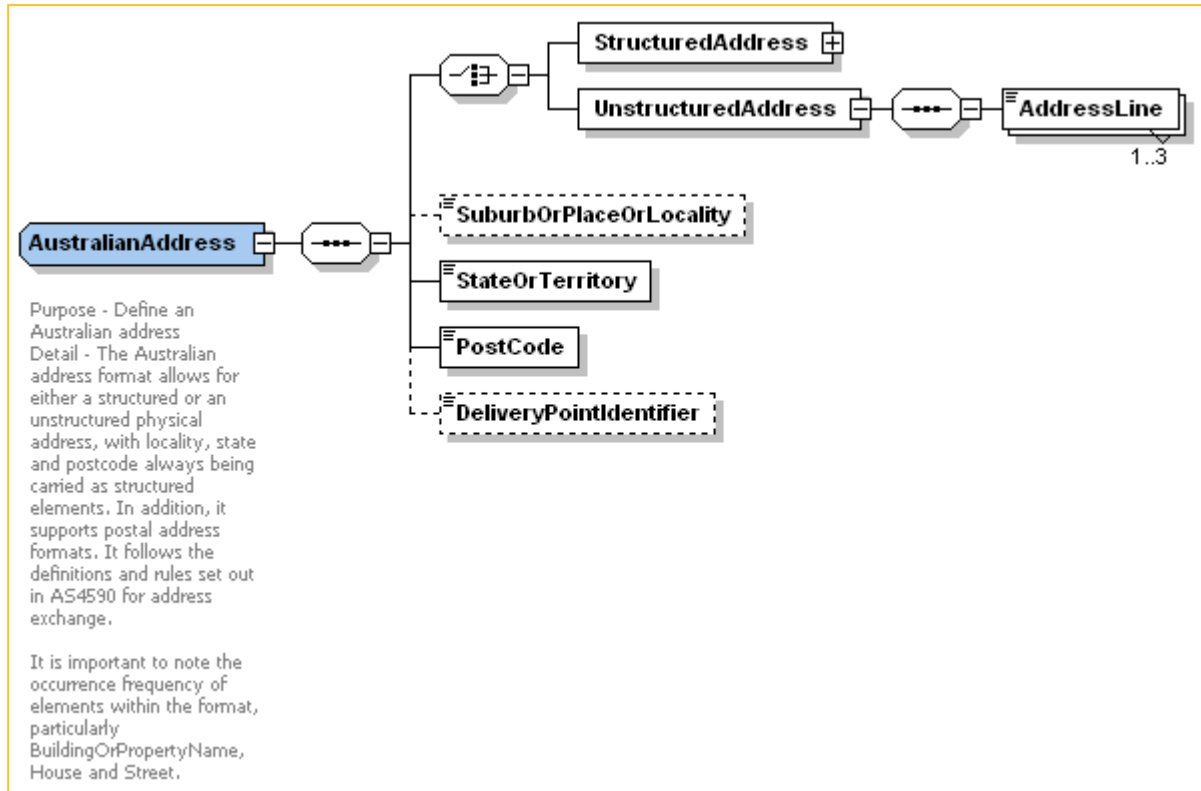
XPath to aseXML node	aseXML node restrictions	aseXML type
Preferred	minOccurs="0"	Type ase:AppointmentDateTime (complex) (§5.6 on page 57)
Reference	minOccurs="0"	Type ase:UniquelIdentifier (string, 1-36 chars.) (§5.217 on page 155)
ScheduledDate	minOccurs="0"	xsd:date

5.8 Type ase:AustralianAddress (complex)

The aseXML documentation for type ase:AustralianAddress is:

- Purpose - Define an Australian address.
- Detail - The Australian address format allows for either a structured or an unstructured physical address, with locality, state and postcode always being carried as structured elements. In addition, it supports postal address formats. It follows the definitions and rules set out in AS4590 for address exchange.

It is important to note the occurrence frequency of elements within the format, particularly BuildingOrPropertyName, House and Street.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AustralianAddress:

XPath to aseXML node	aseXML node restrictions	aseXML type
DeliveryPointIdentifier	nillable="true" minOccurs="0"	Type ase:AustralianDeliveryPointIdentifier (integer 10000000-99999999 incl.) (§5.11 on page 60)
PostCode		Type ase:AustralianPostCode (string with pattern) (§5.26 on page 66)
StateOrTerritory		Type ase:AustralianStateOrTerritory (enumerated list) (§5.27 on page 66)
StructuredAddress		Type ase:AustralianStructuredAddressComponents (complex) (§5.31 on page 68)
SuburbOrPlaceOrLocality	nillable="true" minOccurs="0"	Type ase:AustralianSuburbOrPlaceOrLocality (string ≤ 46 chars.) (§5.33 on page 73)
UnstructuredAddress		xsd:complexType, sequence: see Note below

Note:

- Element ase:AustralianAddress/UnstructuredAddress is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
AddressLine	nillable="true" maxOccurs="3"	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60)

5.9 Type ase:AustralianAddressLine (string, ≤ 80 chars.)

The aseXML documentation for type ase:AustralianAddressLine is:

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

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianAddressLine	maxLength value="80"	xsd:string

5.10 Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.)

The aseXML documentation for type ase:AustralianBuildingOrPropertyName is:

- Purpose - Define building or property name as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianBuildingOrPropertyName	minLength value="1", maxLength value="30"	xsd:string

5.11 Type ase:AustralianDeliveryPointIdentifier (integer 10000000-99999999 incl.)

The aseXML documentation for type ase:AustralianDeliveryPointIdentifier is:

- Purpose - Define Australian delivery point identifier as per Australian Standard AS4590/Australia Post AMAS standard.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianDeliveryPointIdentifier	minInclusive value="10000000", maxInclusive value="99999999"	xsd:nonNegativeInteger

5.12 Type ase:AustralianFlatOrUnitNumber (string with pattern)

The aseXML documentation for type ase:AustralianFlatOrUnitNumber is:

- Purpose - Define flat or unit number as per Australian Standard AS4590.
- Detail - Note that alphabetic characters are permitted allowing for "100A" etc.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianFlatOrUnitNumber	pattern value="[\p{L}\p{N}\p{P}\s]{1,7}"	xsd:string

5.13 Type ase:AustralianFlatOrUnitType (enumerated list)

The aseXML documentation for type ase:AustralianFlatOrUnitType is:

- Purpose - Define flat or unit types as per Australian Standard AS4590.

Type ase:AustralianFlatOrUnitType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

APT.	CTGE.	DUP.	FY.	F.
HSE.	KSK.	MSNT.	MB.	OFF.
PTHS.	RM.	SHED.	SHOP.	SITE.
SL.	STU.	SE.	TNHS.	U.
VLLA.	WARD.	WE		

5.14 Type ase:AustralianFloorOrLevelNumber (string with pattern)

The aseXML documentation for type ase:AustralianFloorOrLevelNumber is:

- Purpose - Define floor or level number as per Australian Standard AS4590.
- Detail - Note that alphabetic characters are permitted.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianFloorOrLevelNumber	pattern value="[\p{L}\p{N}\p{P}\s]{1,5}"	xsd:string

5.15 Type ase:AustralianFloorOrLevelType (enumerated list)

The aseXML documentation for type ase:AustralianFloorOrLevelType is:

- Purpose - Define floor or level types as per Australian Standard AS4590.

Type ase:AustralianFloorOrLevelType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

B.	FL.	G.	L.	LG.
M.	UG.			

5.16 Type ase:AustralianHouseNumber (integer, 0-99999 incl.)

The aseXML documentation for type ase:AustralianHouseNumber is:

- Purpose - Define house number as per Australian Standard AS4590.
- Detail - Note that any alphabetic information should be included in the house number suffix

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianHouseNumber	maxInclusive value="99999"	xsd:nonNegativeIntege

5.17 Type ase:AustralianHouseNumberSuffix (string with pattern)

The aseXML documentation for type ase:AustralianHouseNumberSuffix is:

- Purpose - Define house number suffix as per Australian Standard AS4590.
- Detail - Any non-numeric information should be entered here

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianHouseNumberSuffix	pattern value="[p{L}\p{N}]{1}"	xsd:string

5.18 Type ase:AustralianLocationDescriptor (string with pattern)

The aseXML documentation for type ase:AustralianLocationDescriptor is:

- Purpose - Define location descriptor as per Australian Standard AS4590.
- Detail - This is a "catch all" field for non-standard address information.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianLocationDescriptor	pattern value="[p{L}\p{N}\p{P}\s]{1,30}"	xsd:string

5.19 Type ase:AustralianLotNumber (string with pattern)

The aseXML documentation for type ase:AustralianLotNumber is:

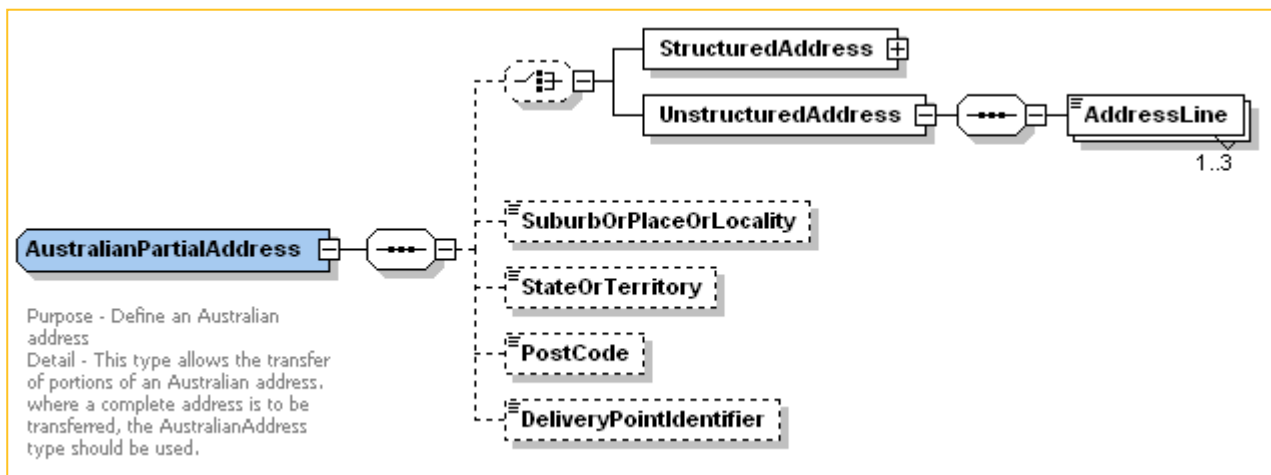
- Purpose - Define lot number as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianLotNumber	pattern value="[p{L}\p{N}\p{P}\s]{1,6}"	xsd:string

5.20 Type ase:AustralianPartialAddress (complex)

The aseXML documentation for type ase:AustralianPartialAddress is:

- Purpose - Define an Australian address.
- Detail - This type allows the transfer of portions of an Australian address. where a complete address is to be transferred, the AustralianAddress type should be used.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AustralianPartialAddress are:

XPath to aseXML node	aseXML node restrictions	aseXML type
DeliveryPointIdentifier	nillable="true" minOccurs="0"	Type ase:AustralianDeliveryPointIdentifier (integer 10000000-99999999 incl.) (§5.11 on page 60)
PostCode	nillable="true" minOccurs="0"	Type ase:AustralianPostCode (string with pattern) (§5.26 on page 66)
StateOrTerritory	nillable="true" minOccurs="0"	Type ase:AustralianStateOrTerritory (§5.27 on page 66)
StructuredAddress		Type ase:AustralianStructuredAddressPartialComponents (complex) (§5.32 on page 70)
SuburbOrPlaceOrLocality	nillable="true" minOccurs="0"	Type ase:AustralianSuburbOrPlaceOrLocality (string ≤ 46 chars.) (§5.33 on page 73)
UnstructuredAddress		xsd:complexType, sequence; see Note below

Note:

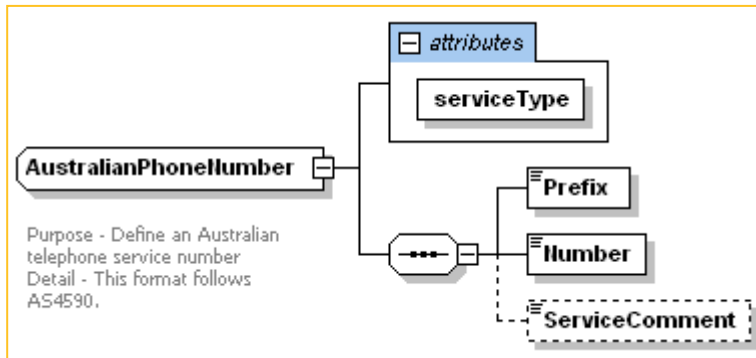
The ase:UnstructuredAddress is a sequence of ase:AddressLine elements, where:

XPath to aseXML node	aseXML node restrictions	aseXML type
AddressLine	nillable="true" maxOccurs="3"	Type ase:AustralianAddressLine (string, ≤ 80 chars.) (§5.9 on page 60)

5.21 Type ase:AustralianPhoneNumber (complex)

The aseXML documentation for type ase:AustralianPhoneNumber is:

- Purpose - Define an Australian telephone service number.
- Detail - This format follows AS4590.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AustralianPhoneNumber:

XPath to aseXML node	aseXML node restrictions	aseXML type
@serviceType	use="required"	Type ase:AustralianTelephoneServiceType (enumerated list) (§5.37 on page 74)
Number		Type ase:AustralianTelephoneNumber (string ≤ 15 chars.) (§5.34 on page 73)
Prefix		Type ase:AustralianTelephonePrefix (string ≤ 4 chars.) (§5.35 on page 73)
ServiceComment	minOccurs="0"	Type ase:AustralianTelephoneServiceComment (string ≤ 40 chars.) (§5.36 on page 73)

5.22 Type ase:AustralianPostalDeliveryNumberPrefix (string with pattern)

The aseXML documentation for type ase:AustralianPostalDeliveryNumberPrefix is:

- Purpose - Define postal delivery number prefix as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianPostalDeliveryNumberPrefix	pattern value="[\\p{Lu}]{1,3}"	xsd:string

5.23 Type ase:AustralianPostalDeliveryNumberSuffix (string with pattern)

The aseXML documentation for type ase:AustralianPhoneNumber is:

- Purpose - Define postal delivery number suffix as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianPostalDeliveryNumberSuffix	pattern value="\p{Lu}]{1,3}"	xsd:string

5.24 Type ase:AustralianPostalDeliveryNumberValue (integer, 0-99999 incl.)

The aseXML documentation for type ase:AustralianPostalDeliveryNumberValue is:

- Purpose - Define postal delivery number value as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianPostalDeliveryNumberValue	maxInclusive value="99999"	xsd:nonNegativeInteger

5.25 Type ase:AustralianPostalDeliveryType (enumerated list)

The aseXML documentation for type ase:AustralianPostalDeliveryType is:

- Purpose - Define postal delivery types as per Australian Standard AS4590
- Detail - There are several additions in this list over and above what is in AS4590. The extra types have been derived from the Australia Post AMAS standard.

Type ase:AustralianStateOrTerritory has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

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

5.26 Type ase:AustralianPostCode (string with pattern)

The aseXML documentation for type ase:AustralianPostCode is:

- Purpose - Define Australian postcode as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianPostCode	pattern value="[p{N}]{4}"	xsd:string

5.27 Type ase:AustralianStateOrTerritory (enumerated list)

The aseXML documentation for type ase:AustralianStateOrTerritory is:

- Purpose - Define Australian states and territories as per Australian Standard AS4590.

Type ase:AustralianStateOrTerritory has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

AAT.	ACT.	NSW.	NT.	QLD.
SA.	TAS.	VIC.	WA.	

5.28 Type ase:AustralianStreetName (string with pattern)

The aseXML documentation for type ase:AustralianStreetName is:

- Purpose - Define street name as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianStreetName	pattern value="[p{L}p{N}s\-'-]{1,30}"	xsd:string

5.29 Type ase:AustralianStreetSuffix (enumerated list)

The aseXML documentation for type ase:AustralianStreetSuffix is:

- Purpose - Define street suffixes as per Australian Standard AS4590.

Type ase:AustralianStreetSuffix has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

CN.	E.	EX.	LR.	N.
NE.	NW.	S.	SE.	SW.

UP.	W.		
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5.30 Type ase:AustralianStreetType (enumerated list)

The aseXML documentation for type ase:AustralianStreetType is:

- Purpose - Define street types as per Australian Standard AS4590.
- Detail - There are several additions in this list over and above those defined in AS4590. These additions are defined as follows:

BOWL - Bowl	PRST - Pursuit
CRSE - Course	PSGE - Passage
GTWY - Gateway	RTRN - Return
HETH - Heath	WOOD - Wood
HUB - Hub	WTRS - Waters
ISLD - Island	

Version 2.0 addition

- VLL - Villa

Type ase:AustralianStreetType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

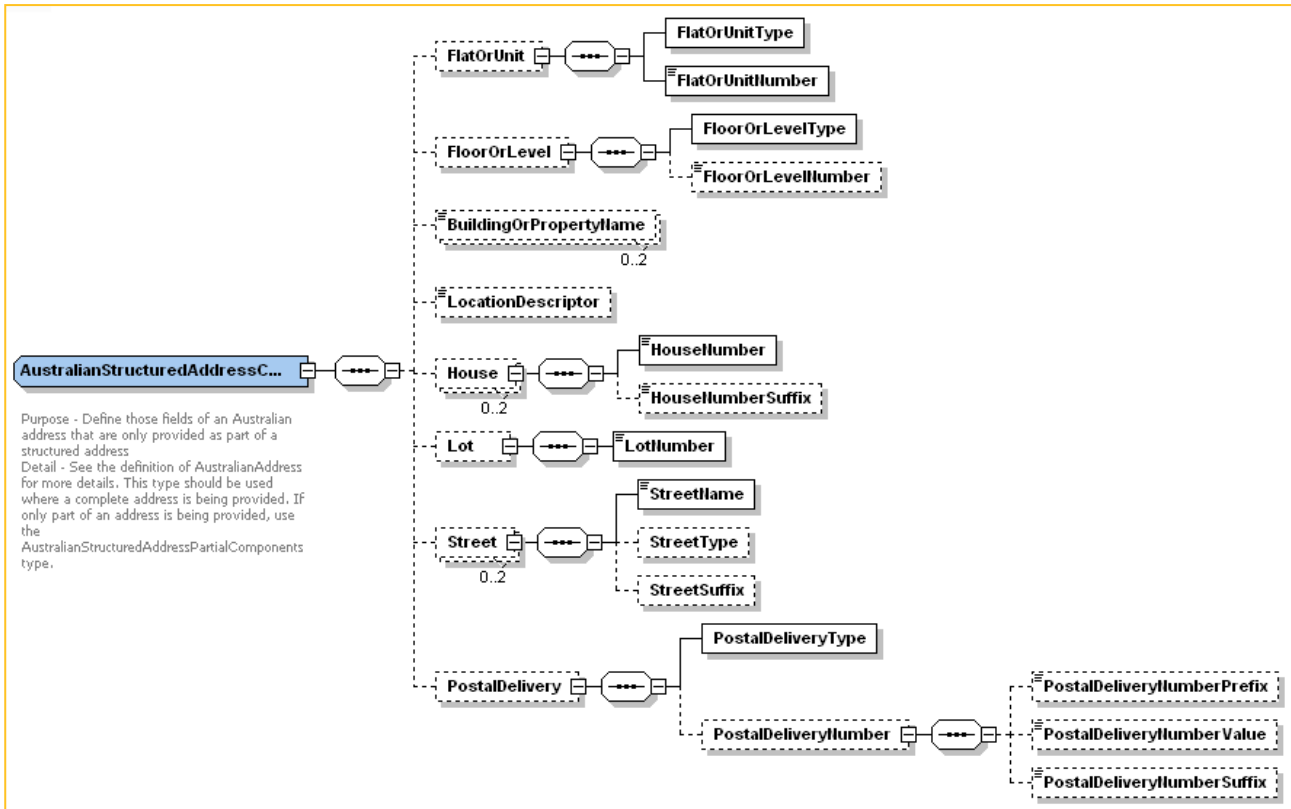
ACCS.	CT.	GDN.	NOOK.	RVWY.	TKWY.
ALLY.	CTYD.	GDNS.	OTLK.	RVRA.	TURN.
ALWY.	COVE.	GTE.	PDE.	RD.	UPAS.
AMBL.	CRES.	GTES.	PARK.	RDS.	UPR.
ANCG.	CRST.	GTWY.	PKLD.	RDSD.	VALE.
APP.	CRSS.	GLD.	PKWY.	RDWY.	VDCT.
ARC.	CRSG.	GLEN.	PART.	RNDE.	VIEW.
ART.	CRD.	GRA.	PASS.	RSBL.	VLL.
AVE.	COWY.	GRN.	PATH.	RTY.	VLLS.
BASN.	CUWY.	GRND.	PHWY.	RND.	VSTA.
BCH.	CDS.	GR.	PIAZ.	RTE.	WADE.
BEND.	CTTG.	GLY.	PL.	RTRN.	WALK.
BLK.	DALE.	HETH.	PLAT.	ROW.	WKWY.
BVD.	DELL.	HTS.	PLZA.	RUE.	WAY.
BOWL.	DEVN.	HRD.	PKT.	RUN.	WHRF.
BRCE.	DIP.	HUB.	PNT.	SWY.	WOOD.
BRAE.	DSTR.	HWY.	PORT.	SDNG.	WTRS.
BRK.	DR.	HILL.	PROM.	SLPE.	WYND.
BDGE.	DRWY.	INTG.	PRST.	SND.	YARD.
BDWY.	EDGE.	INTN.	PSGE.	SPUR.	

BROW.	ELB.	ISLD.	QUAD.	SQ.	
BYPA.	END.	JNC.	QDGL.	STRS.	
BYWY.	ENT.	KEY.	QDRT.	SHWY.	
CAUS.	ESP.	LDG.	QY.	STPS.	
CRSE.	EST.	LANE.	QYS.	STRA.	
CTR.	EXP.	LNWY.	RMBL.	ST.	
CNWY.	EXTN.	LEES.	RAMP.	STRP.	
CH.	FAWY.	LINE.	RNGE.	SBWY.	
CIR.	FTRK.	LINK.	RCH.	TARN.	
CLT.	FITR.	LT.	RES.	TCE.	
CCT.	FLAT.	LKT.	REST.	THOR.	
CRCS.	FOLW.	LOOP.	RTT.	TLWY.	
CL.	FTWY.	LWR.	RIDE.	TOP.	
CLDE.	FSHR.	MALL.	RDGE.	TOR.	
CMMN.	FORM.	MNDR.	RGWY.	TWRS.	
CON.	FWY.	MEW.	ROWY.	TRK.	
CPS.	FRNT.	MEWS.	RING.	TRL.	
CNR.	FRTG.	MWY.	RISE.	TRLR.	
CSO.	GAP.	MT.	RVR.	TRI.	

5.31 Type ase:AustralianStructuredAddressComponents (complex)

The aseXML documentation for type ase:AustralianStructuredAddressComponents is:

- Purpose - Define those fields of an Australian address that are only provided as part of a structured address.
- Detail - See the definition of AustralianAddress for more details. This type should be used where a complete address is being provided. If only part of an address is being provided, use the AustralianStructuredAddressPartialComponents type.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AustralianStructuredAddressComponents are:

XPath to aseXML node	aseXML node restrictions	aseXML type
BuildingOrPropertyName	nillable="true" minOccurs="0" maxOccurs="2"	Type ase:AustralianBuildingOrPropertyName (string, 1-30 chars.) (§5.10 on page 60)
FlatOrUnit	minOccurs="0"	xsd:complexType, sequence—see Note 1 below
FloorOrLevel	minOccurs="0"	xsd:complexType, sequence—see Note 2 below
House	minOccurs="0" maxOccurs="2"	xsd:complexType, sequence—see Note 3 on page 70
LocationDescriptor	nillable="true" minOccurs="0"	Type ase:AustralianLocationDescriptor (string with pattern) (§5.18 on page 62)
Lot	minOccurs="0"	xsd:complexType, sequence—see Note 4 on page 70
PostalDelivery	minOccurs="0"	xsd:complexType, sequence—see Note 6 on page 70
Street	minOccurs="0" maxOccurs="2"	xsd:complexType, sequence—see Note 5 on page 70

Notes:

1. The ase:FlatOrUnit is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
FlatOrUnitNumber	nillable="true"	Type ase:AustralianFlatOrUnitNumber (string with pattern) (§5.12 on page 60)
FlatOrUnitType	nillable="true"	Type ase:AustralianFlatOrUnitType (enumerated list) (§5.13 on page 61)

2. The ase:FloorOrLevel is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
FloorOrLevelNumber	nillable="true" minOccurs="0"	Type ase:AustralianFloorOrLevelNumber (string with pattern) (§5.14 on page 61)
FloorOrLevelType	nillable="true"	Type ase:AustralianFloorOrLevelType (enumerated list) (§5.15 on page 61)

3. The ase:House is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
HouseNumber	nillable="true"	Type ase:AustralianHouseNumber (integer, 0-99999 incl.) (§5.16 on page 62)
HouseNumberSuffix	nillable="true" minOccurs="0"	Type ase:AustralianHouseNumberSuffix (string with pattern) (§5.17 on page 62)

4. The ase:Lot is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
LotNumber	nillable="true"	Type ase:AustralianLotNumber (string with pattern) (§5.19 on page 62)

5. The ase:Street is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
StreetName	nillable="true"	Type ase:AustralianStreetName (string with pattern) (§5.28 on page 66)
StreetSuffix	nillable="true" minOccurs="0"	Type ase:AustralianStreetSuffix (enumerated list) (§5.29 on page 66)
StreetType	nillable="true" minOccurs="0"	Type ase:AustralianStreetType (enumerated list) (§5.30 on page 67)

6. The ase:PostalDelivery is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
PostalDeliveryNumber	minOccurs="0"	xsd:complexType, sequence; see Note 7 below
PostalDeliveryType	nillable="true"	Type ase:AustralianPostalDeliveryType (enumerated list) (§5.25 on page 65)

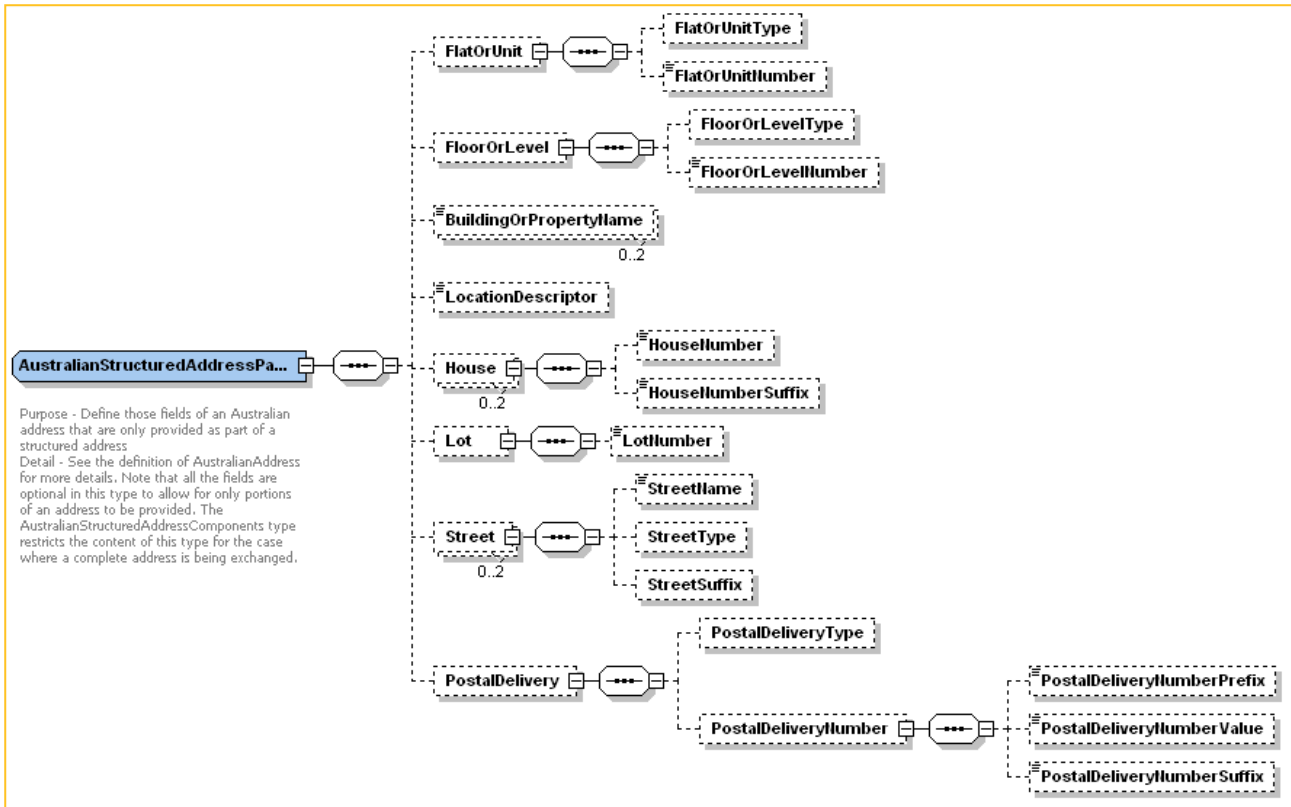
7. The ase:PostalDeliveryNumber is a sequence of elements:

XPath to aseXML node	aseXML node restrictions	aseXML type
PostalDeliveryNumberPrefix	nillable="true" minOccurs="0"	Type ase:AustralianPostalDeliveryNumberPrefix (string with pattern) (§5.22 on page 64)
PostalDeliveryNumberSuffix	nillable="true" minOccurs="0"	Type ase:AustralianPostalDeliveryNumberSuffix (string with pattern) (§5.23 on page 65)
PostalDeliveryNumberValue	nillable="true" minOccurs="0"	Type ase:AustralianPostalDeliveryNumberValue (integer, 0-99999 incl.) (§5.24 on page 65)

5.32 Type ase:AustralianStructuredAddressPartialComponents (complex)

The aseXML documentation for type ase:AustralianStructuredAddressPartialComponents is:

- Purpose - Define those fields of an Australian address that are only provided as part of a structured address.
- Detail - See the definition of AustralianAddress for more details. Note that all the fields are optional in this type to allow for only portions of an address to be provided. The AustralianStructuredAddressComponents type restricts the content of this type for the case where a complete address is being exchanged.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:AustralianStructuredAddressPartialComponents are:

XPath to aseXML node	aseXML node restrictions	aseXML type
BuildingOrPropertyName	nillable="true" minOccurs="0" maxOccurs="2"	Type ase:AustralianBuildingOrPropertyName (§5.10 on page 60)
FlatOrUnit	minOccurs="0"	complexType, sequence; see Note 1 below
FloorOrLevel	minOccurs="0"	complexType, sequence; see Note 2 on page 72
House	minOccurs="0" maxOccurs="2"	complexType, sequence; see Note 3 on page 72
LocationDescriptor	nillable="true" minOccurs="0"	Type ase:AustralianLocationDescriptor (§5.18 en page 62)
Lot	minOccurs="0"	complexType, sequence; see Note 4 on page 72
PostalDelivery	minOccurs="0"	complexType, sequence; see Note 6 on page 72
Street	minOccurs="0" maxOccurs="2"	complexType, sequence; see Note 5 on page 72

Notes:

1. Element ase:FlatOrUnit is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
FlatOrUnitNumber	nillable="true" minOccurs="0"	Type ase:AustralianFlatOrUnitNumber (§5.12 on page 60)
FlatOrUnitType	nillable="true" minOccurs="0"	Type ase:AustralianFlatOrUnitType (§5.13 on page 61)

2. Element ase:FloorOrLevel is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
FloorOrLevelNumber	nillable="true" minOccurs="0"	Type ase:AustralianFloorOrLevelNumber (§5.14 on page 61)
FloorOrLevelType	nillable="true" minOccurs="0"	Type ase:AustralianFloorOrLevelType (§5.15 on page 61)

3. Element ase:House is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
HouseNumber	nillable="true" minOccurs="0"	Type ase:AustralianHouseNumber (§5.16 on page 62)
HouseNumberSuffix	nillable="true" minOccurs="0"	Type ase:AustralianHouseNumberSuffix (§5.17 on page 62)

4. Element ase:Lot is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type and restrictions
LotNumber	nillable="true" minOccurs="0"	Type ase:AustralianLotNumber (§5.19 on page 62)

5. Element ase:Street is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
StreetName	nillable="true" minOccurs="0"	Type ase:AustralianStreetName (§5.28 on page 66)
StreetSuffix	nillable="true" minOccurs="0"	Type ase:AustralianStreetSuffix (§5.29 on page 66)
StreetType	nillable="true" minOccurs="0"	Type ase:AustralianStreetType (§5.30 on page 67)

6. Element ase:PostalDelivery is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
PostalDeliveryNumber	nillable="true" minOccurs="0"	complexType, sequence; see Note 7 below
PostalDeliveryType	nillable="true" minOccurs="0"	Type ase:AustralianPostalDeliveryType (§5.25 on page 65)

7. Element ase:PostalDeliveryNumber is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
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XPath to aseXML node	aseXML node restrictions	aseXML type
PostalDeliveryNumberPrefix	minOccurs="0"	Type ase:AustralianPostalDeliveryNumberPrefix (§5.22 on page 64)
PostalDeliveryNumberSuffix	minOccurs="0"	Type ase:AustralianPostalDeliveryNumberSuffix (§5.23 on page 65)
PostalDeliveryNumberValue	minOccurs="0"	Type ase:AustralianPostalDeliveryNumberValue (§5.24 on page 65)

5.33 Type ase:AustralianSuburbOrPlaceOrLocality (string ≤ 46 chars.)

The aseXML documentation for type ase:AustralianSuburbOrPlaceOrLocality is:

- Purpose - Define suburb or locality as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianSuburbOrPlaceOrLocality	maxLength value="46"	xsd:string

5.34 Type ase:AustralianTelephoneNumber (string ≤ 15 chars.)

The aseXML documentation for type ase:AustralianTelephoneNumber is:

- Purpose - Define Australian telephone number as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianTelephoneNumber	maxLength value="15"	xsd:string

5.35 Type ase:AustralianTelephonePrefix (string ≤ 4 chars.)

The aseXML documentation for type ase:AustralianTelephonePrefix is:

- Purpose - Define Australian telephone number as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianTelephonePrefix	maxLength value="4"	xsd:string

5.36 Type ase:AustralianTelephoneServiceComment (string ≤ 40 chars.)

The aseXML documentation for type ase:AustralianTelephoneServiceComment is:

- Purpose - Define Australian telephone service comment as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AustralianTelephoneServiceComment	maxLength value="40"	xsd:string

5.37 Type ase:AustralianTelephoneServiceType (enumerated list)

The aseXML documentation for type ase:AustralianTelephoneServiceType is:

- Purpose - Define Australian telephone service types.
- Detail - AS4590 indicates that service types need to be agreed between exchanging parties. It is anticipated this list will be extended as new services are defined.

Type ase:AustralianTelephoneServiceType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Fixed Voice.	Mobile Voice.	Fax.	Modem.	Pager.
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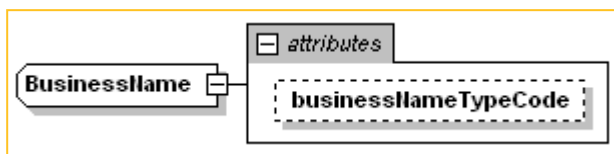
5.38 Type ase:AveragedDailyLoad (integer)

The aseXML documentation for type ase:AveragedDailyLoad is:

- Purpose - The average daily load for a given data stream.
- MSATS Data Model Column – AveragedDailyLoad.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:AveragedDailyLoad		xsd:integer

5.39 Type ase:BusinessName (complex)



Type ase:BusinessName extends *Type ase:BusinessNameBase (string ≤ 200 chars.)* (§5.40 on page 75). aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:BusinessName:

XPath to aseXML node	aseXML node restrictions	aseXML type
@businessNameTypeCode	use="optional"	<i>Type ase:BusinessNameTypeCode (enumerated list)</i> (§5.41 on page 75)

element using the type ase:BusinessName		Type ase:BusinessNameBase (string ≤ 200 chars.) (§5.40 below)
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5.40 Type ase:BusinessNameBase (string ≤ 200 chars.)

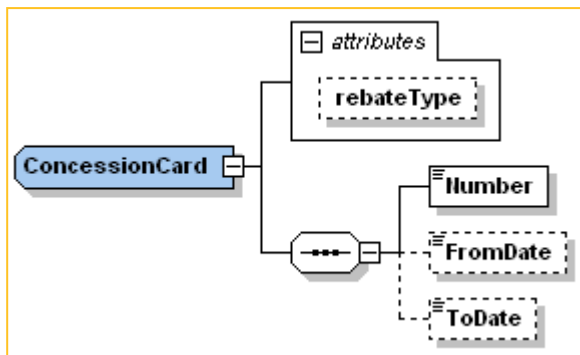
XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:BusinessNameBase	maxLength value="200"	xsd:string

5.41 Type ase:BusinessNameTypeCode (enumerated list)

Type ase:BusinessNameTypeCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

OTH.	MTR.	OTR.	MN.	PRF.
LGL.	MAU.			

5.42 Type ase:ConcessionCard (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ConcessionCard:

XPath to aseXML node	aseXML node restrictions	aseXML type
@rebateType	use="optional"	Type ase:RebateType (enumerated list) (§5.180 on page 136)
FromDate	minOccurs="0"	xsd:date
Number	maxLength value="10"	xsd:string
ToDate	minOccurs="0"	xsd:date

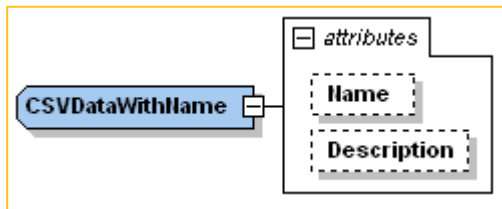
5.43 Type ase:CommentLine (string ≤ 80 chars.)

The aseXML documentation for type ase:CommentLine is:

- Purpose - Comment Line.
- Detail - Maximum of 80 characters per line.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:CommentLine	maxLength value="80"	xsd:string

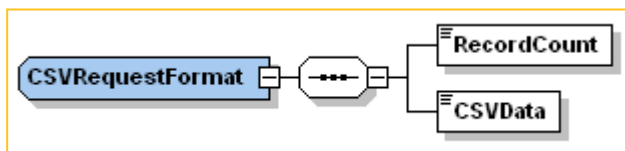
5.44 Type ase:CSVDataWithName (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:CSVDataWithName:

XPath to aseXML node	aseXML node restrictions	aseXML type
@Description	maxLength value="80"	Type ase:NonZeroLengthString (string >= 1 char.) (§5.166 on page 130)
@Name	maxLength value="10"	Type ase:NonZeroLengthString (string >= 1 char.) (§5.166 on page 130)
element using the type ase:CSVDataWithName		xsd:string

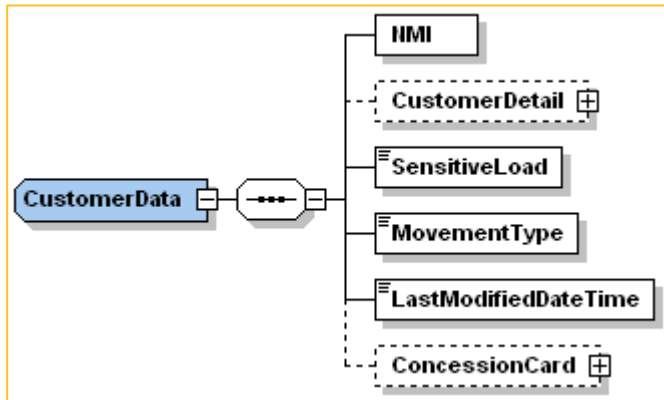
5.45 Type ase:CSVRequestFormat (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:CSVRequestFormat are:

XPath to aseXML node	aseXML node restrictions	aseXML type
CSVData	nillable="true"	xsd:string
RecordCount		Type ase:RecordCount (integer, 10 significant digits) (§5.182 on page 137)

5.46 Type ase:CustomerData (complex)



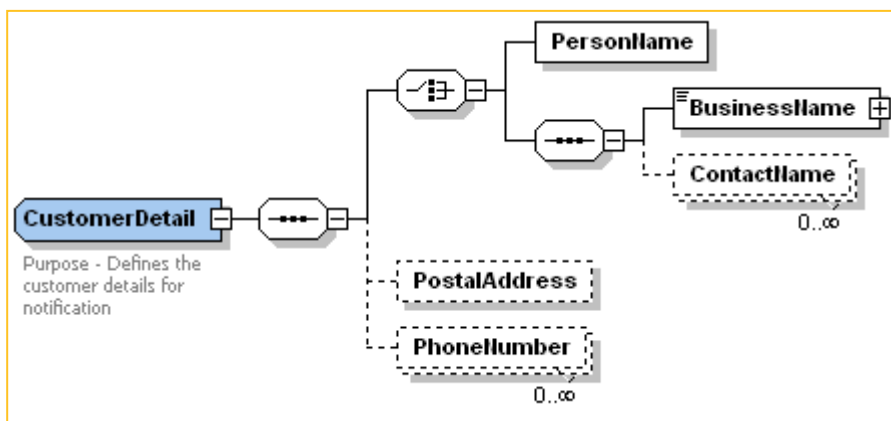
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:CustomerData:

XPath to aseXML node	aseXML node restrictions	aseXML type
ConcessionCard	minOccurs="0"	Type ase:ConcessionCard (complex) (§5.42 on page 75)
CustomerDetail	minOccurs="0"	Type ase:CustomerDetail (complex) (§5.47 below)
LastModifiedDateTime		xsd:dateTime
MovementType		Type ase:MovementType (enumerated list) (§5.155 on page 126)
NMI		Type ase:NMI (complex) (§5.157 on page 127)
SensitiveLoad		Type ase:SensitiveLoadType (enumerated list) (§5.190 on page 139)

5.47 Type ase:CustomerDetail (complex)

The aseXML documentation for type ase:CustomerDetail is:

- Purpose - Defines the customer details for notification.



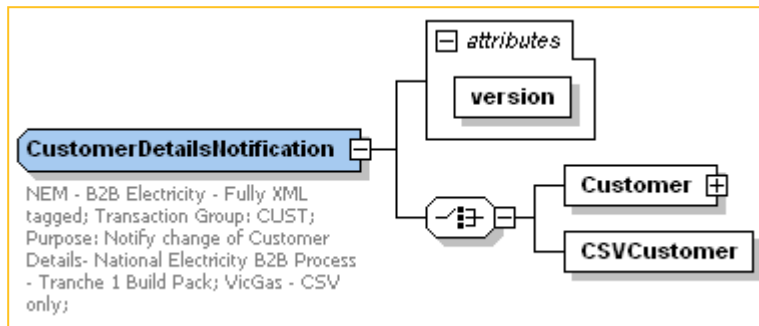
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:CustomerDetail:

XPath to aseXML node	aseXML node restrictions	aseXML type
BusinessName		Type ase:BusinessName (complex) (§5.39 on page 74)
ContactName	minOccurs="0" maxOccurs="unbounded"	Type ase:PersonName (complex) (§5.170 on page 133)
PersonName		Type ase:PersonName (complex) (§5.170 on page 133)
PhoneNumber	minOccurs="0" maxOccurs="unbounded"	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
PostalAddress	minOccurs="0"	Type ase:Address (complex) (§5.4 on page 56)

5.48 Type ase:CustomerDetailsNotification (complex)

The aseXML documentation for type ase:CustomerDetailsNotification is:

- NEM - B2B Electricity - Fully XML tagged.
- Transaction Group: CUST
- Purpose – Notify change of Customer Details- National Electricity B2B Process; VicGas - CSV only;



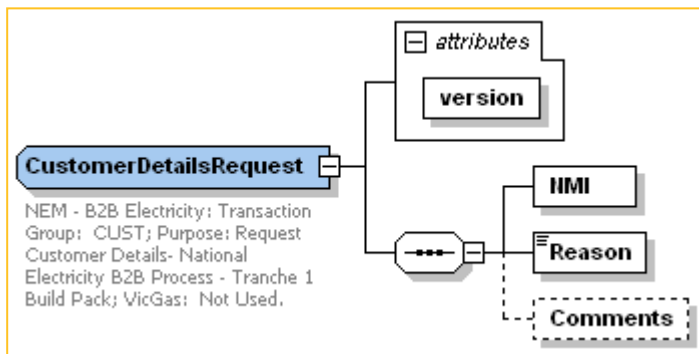
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:CustomerDetailsNotification:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r18—Type ase:ReleaseIdentifier (string with pattern), §5.183 on page 137)
CSVCustomer		Type ase:CSVRequestFormat (complex) (§5.45 en page 76)
Customer		Type ase:CustomerData (complex) (§5.46 on page 77)

5.49 Type ase:CustomerDetailsRequest (complex)

The aseXML documentation for type ase:CustomerDetailsRequest is:

- NEM - B2B Electricity
- Transaction Group: CUST
- Purpose – Request Customer Details- National Electricity B2B Process; VicGas: Not Used.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:CustomerDetailsRequest are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
Comments	minOccurs="0"	Type ase:SpecialComments (complex) (§5.207 on page 148)
NMI		Type ase:NMI (complex) (§5.157 on page 127)
Reason		Type ase:RequestReason (enumerated) (§5.184 on page 137)

5.50 Type ase:CustomerFundedMeter (boolean)

The aseXML documentation for type ase:CustomerFundedMeter is:

- Identifies that the customer has funded the purchase of the meter. This leads to a reduction in the meter charges allocated to the incumbent retailer, and so is needed for the network bill reconciliation. This also has an impact on contracts that can be offered to customers by prospective retailers.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:CustomerFundedMeter		xsd:boolean

5.51 Type ase:CustomerType (enumerated list)

The aseXML documentation for type ase:CustomerType is:

- Purpose - Defines a list of valid customer types

Type ase:CustomerType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Industrial.	Commercial.	Residential.	Farm.	Lighting.
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5.52 Type ase:DataStreamType (enumerated list)

The aseXML documentation for type ase:DataStreamType is:

- Purpose - Identify data stream type
- MSATS Data Model Column - DataStreamType
- Detail - Non-Interval has the same meaning as consumption.

Type ase:DataStreamType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Consumption.	Interval.	Non-Interval.	Profile.
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5.53 Type ase:DirectionIndicator (enumerated list)

The aseXML documentation for type ase:DirectionIndicator is:

- This element may be handled using NetworkTariffCode, If so, the corresponding data element is to be removed.

Type ase:DirectionIndicator has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Import.	Export.
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5.54 Type ase:DisplayType (string 1–20 chars.)

The aseXML documentation for type ase:DisplayType is:

- In WA readings are collected from some customers by means of self-reader cards that have blank dials printed on them mimicking the layout of the meter display. This attribute

defines the type of display on the meter and is used to define what style of self read card would be sent to the end-use customer when a retailer request them to be on a self read card arrangement. This also helps define the type of screen to display for internet captured readings.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:DisplayType	maxLength value="20" minLength value="1" whiteSpace value="collapse"	xsd:string

5.55 Type ase:DistanceFromSubstation (decimal, format = 9999.999)

The aseXML documentation for type ase:DistanceFromSubstation is:

- For a number of network tariffs (generally larger customers), the distance to the zone substation is a factor in the calculation of the network access charges.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:DistanceFromSubstation	totalDigits value="7" fractionDigits value="3" maxInclusive value="9999.999"	xsd:decimal

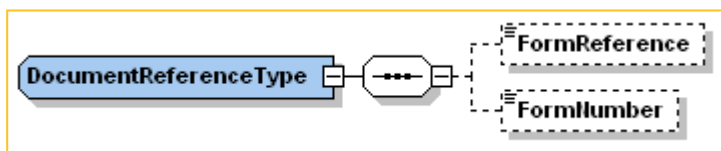
5.56 Type ase:DistributionLossFactorCode (string ≤ 4 chars.)

The aseXML documentation for type ase:DistributionLossFactorCode is:

- Purpose - Identify a distribution loss factor value.
- MSATS Data Model Column – DLFCODE.
- Detail - Whilst the current wholesale market identifies a loss factor value for each NMI, the number of NMIs in the retail market make this approach unwieldy. Multiple NMIs will have identical loss factors, and hence the need for a code to identify each value.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:DistributionLossFactorCode	maxLength value="4"	xsd:string

5.57 Type ase:DocumentReferenceType (complex)



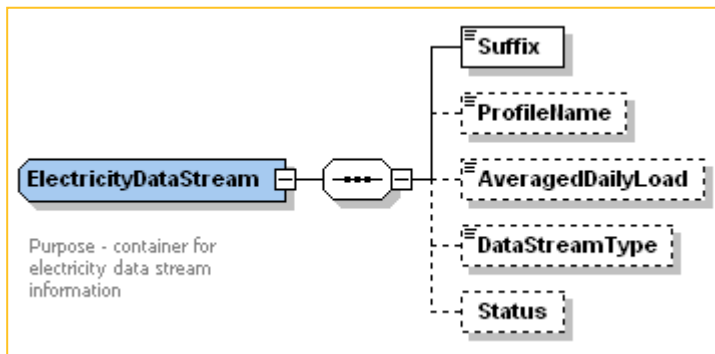
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:DocumentReferenceType are:

XPath to aseXML node	aseXML node restrictions	aseXML type
FormNumber	minOccurs="0"	xsd:string, maxLength value="15"
FormReference	minOccurs="0"	xsd:string, maxLength value="30"

5.58 Type ase:ElectricityDataStream (complex)

The aseXML documentation for type ase:ElectricityDataStream is:

- Purpose - container for electricity data stream information.



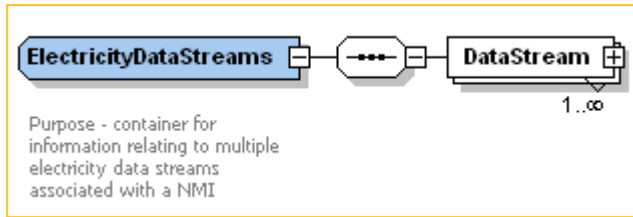
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityDataStream are:

XPath to aseXML node	aseXML node restrictions	aseXML type
AveragedDailyLoad	nillable="true" minOccurs="0"	Type ase:AveragedDailyLoad (integer) (§5.38 on page 74)
DataStreamType	nillable="true" minOccurs="0"	Type ase:DataStreamType (§5.52 on page 80)
ProfileName	nillable="true" minOccurs="0"	Type ase:ProfileName (string ≤ 10 chars.) (§5.179 on page 136)
Status	nillable="true" minOccurs="0"	Type ase:NMIStatusCode (string = 1 char.) (§5.164 on page 129)
Suffix	nillable="true"	Type ase:NMIDataStreamSuffix (string = 2 chars.) (§5.162 on page 129)

5.59 Type ase:ElectricityDataStreams (complex)

The aseXML documentation for type ase:ElectricityDataStreams is:

- Purpose - container for information relating to multiple electricity data streams associated with a NMI.



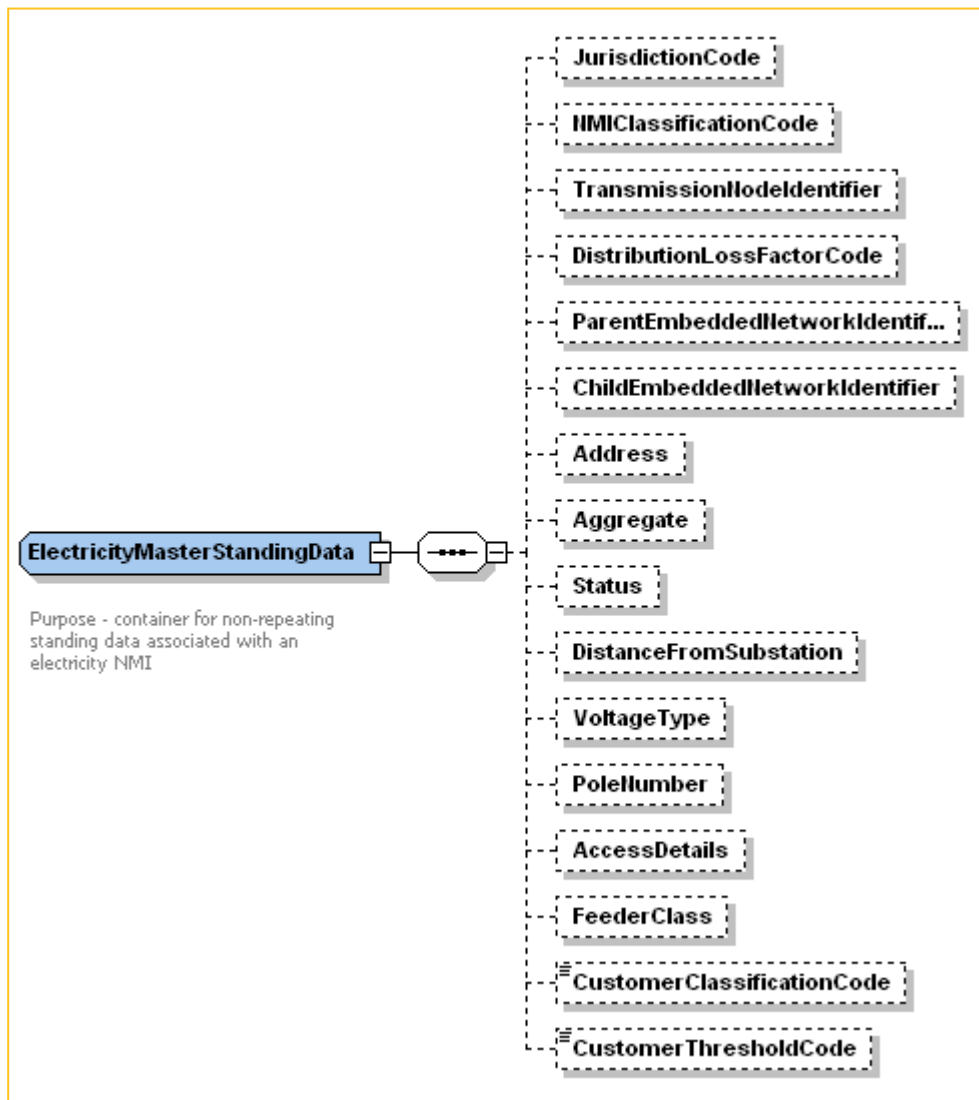
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityDataStreams are:

XPath to aseXML node	aseXML node restrictions	aseXML type
DataStream	maxOccurs="unbounded"	Type ase:ElectricityDataStream (complex) (§5.58 on page 82)

5.60 Type ase:ElectricityMasterStandingData (complex)

The aseXML documentation for type ase:ElectricityMasterStandingData is:

- Purpose - container for non-repeating standing data associated with an electricity NMI.



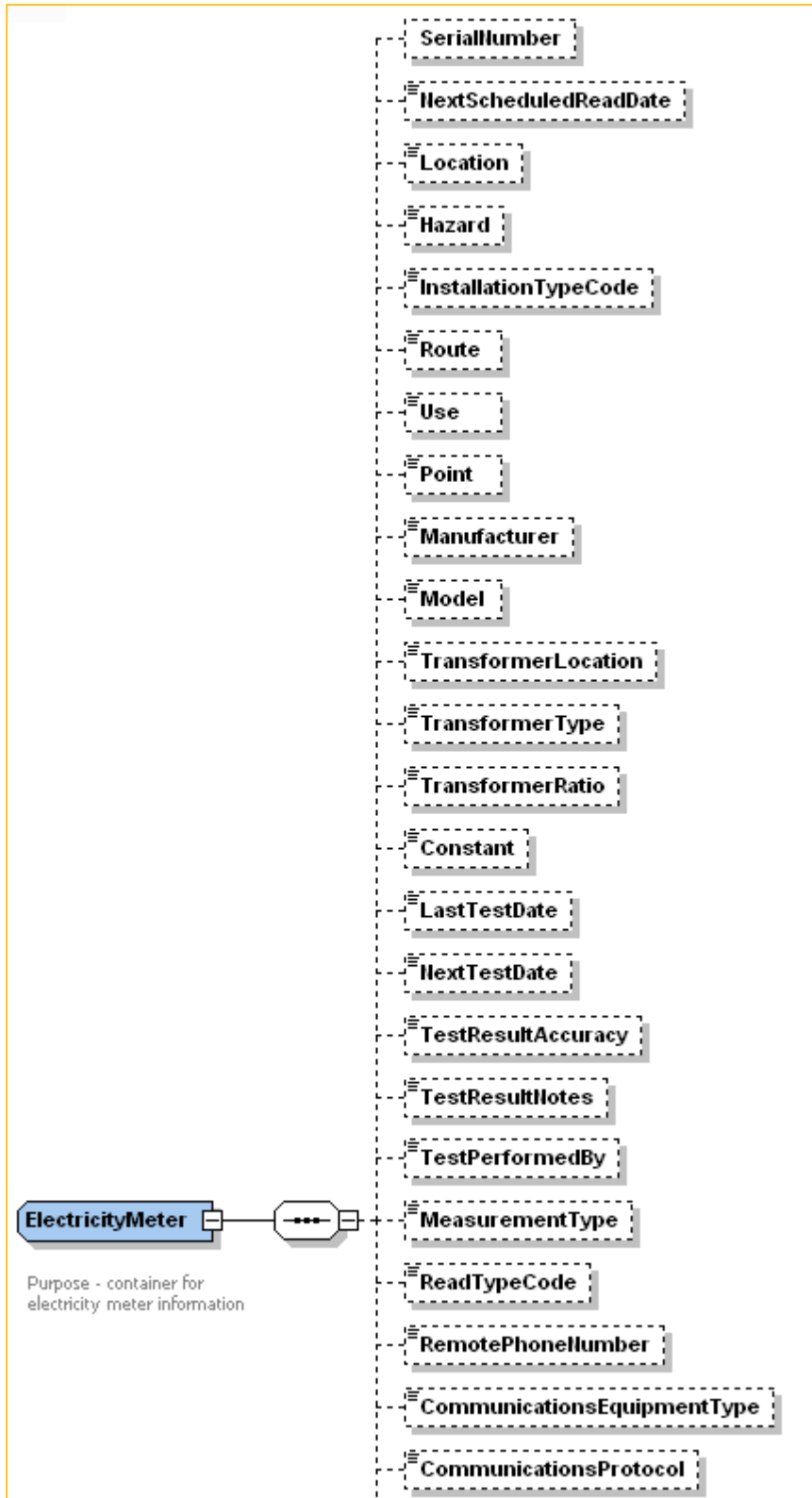
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityMasterStandingData are:

XPath to aseXML node	aseXML node restrictions	aseXML type
AccessDetails	nillable="true" minOccurs="0"	Type ase:AccessDetail (string ≤ 160 chars.) (§5.1 on page 55)
Address	nillable="true" minOccurs="0"	Type ase:AustralianPartialAddress (complex) (§5.20 on page 63)
Aggregate	nillable="true" minOccurs="0"	Type ase:YesNo (enumerated list) (§5.219 on page 156)
ChildEmbeddedNetworkIdentifier	nillable="true" minOccurs="0"	Type ase:EmbeddedNetworkIdentifier (string ≤ 10 chars.) (§5.72 on page 96)
CustomerClassificationCode	nillable="true" minOccurs="0"	Type ase:EMSD_CustomerClassificationCode (string 1-20 chars.) (§5.73 on page 96)
CustomerThresholdCode	nillable="true" minOccurs="0"	Type ase:EMSD_CustomerThresholdCode (string 1-20 chars.) (§5.74 on page 96)
DistanceFromSubstation	nillable="true" minOccurs="0"	Type ase:DistanceFromSubstation (decimal, format = 9999.999) (§5.55 on page 81)
DistributionLossFactorCode	nillable="true" minOccurs="0"	Type ase:DistributionLossFactorCode (string ≤ 4 chars.) (§5.56 on page 81)
FeederClass	nillable="true" minOccurs="0"	Type ase:FeederClass (string 1-15 chars.) (§5.85 on page 101)
JurisdictionCode	nillable="true" minOccurs="0"	Type ase:JurisdictionCode (string ≤ 3 chars.) (§5.98 on page 107)
NMClassificationCode	nillable="true" minOccurs="0"	Type ase:NMClassificationCode (string ≤ 8 chars.) (§5.160 on page 128)
ParentEmbeddedNetworkIdentifier	nillable="true" minOccurs="0"	Type ase:EmbeddedNetworkIdentifier (string ≤ 10 chars.) (§5.72 on page 96)
PoleNumber	nillable="true" minOccurs="0"	Type ase:PoleNumber (string 1-40 chars.) (§5.176 on page 135)
Status	nillable="true" minOccurs="0"	Type ase:NMStatusCode (string = 1 char.) (§5.164 on page 129)
TransmissionNodeIdentifier	nillable="true" minOccurs="0"	Type ase:TransmissionNodeIdentifier (string ≤ 4 chars.) (§5.216 on page 155)
VoltageType	nillable="true" minOccurs="0"	Type ase:VoltageType (string 1-10 chars.) (§5.218 on page 155)

5.61 Type ase:ElectricityMeter (complex)

The aseXML documentation for type ase:ElectricityMeter is:

- Purpose - container for electricity meter information.



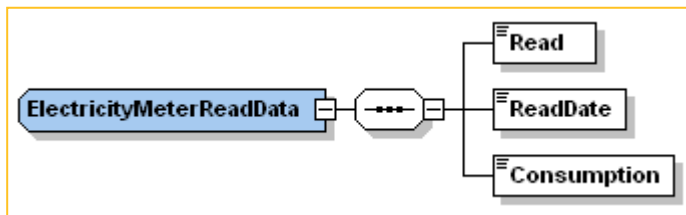
XML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityMeter are:

XPath to aseXML node	aseXML node restrictions	aseXML type
AdditionalSiteInformation	nillable="true" minOccurs="0"	Type ase:MeterAdditionalSiteInformation (string ≤ 100 chars.) (§5.105 on page 110)
AssetManagementPlan	nillable="true" minOccurs="0"	Type ase:MeterAssetManagementPlan (string ≤ 50 chars.) (§5.106 on page 110)

XPath to aseXML node	aseXML node restrictions	aseXML type
CalibrationTables	nillable="true" minOccurs="0"	Type ase:MeterCalibrationTables (string ≤ 50 chars.) (§5.107 on page 111)
CommunicationsEquipmentType	nillable="true" minOccurs="0"	Type ase:MeterCommunicationsEquipmentType (string ≤ 4 chars.) (§5.108 on page 111)
CommunicationsProtocol	nillable="true" minOccurs="0"	Type ase:MeterCommunicationsProtocol (string ≤ 50 chars.) (§5.109 on page 111)
Constant	nillable="true" minOccurs="0"	Type ase:MeterCommunicationsEquipmentType (string ≤ 4 chars.) (§5.108 on page 111)
CustomerFundedMeter	nillable="true" minOccurs="0"	Type ase:CustomerFundedMeter (boolean) (§5.50 on page 79)
DataConversion	minOccurs="0"	Type ase:MeterDataConversion (string ≤ 50 chars.) (§5.112 on page 112)
DataValidations	nillable="true" minOccurs="0"	Type ase:MeterDataValidations (string ≤ 50 chars.) (§5.115 on page 116)
DisplayType	nillable="true" minOccurs="0"	Type ase:DisplayType (string 1–20 chars.) (§5.54 on page 80)
EstimationInstructions	nillable="true" minOccurs="0"	Type ase:MeterEstimationInstructions (string ≤ 50 chars.) (§5.119 on page 117)
Hazard	nillable="true" minOccurs="0"	Type ase:MeterHazard (string ≤ 12 chars.) (§5.120 on page 117)
InstallationTypeCode	nillable="true" minOccurs="0"	Type ase:MeterInstallationTypeCode (string ≤ 8 chars.) (§5.122 on page 118)
KeyCode	nillable="true" minOccurs="0"	Type ase:KeyCode (string 1–8 chars.) (§5.99 on page 107)
LastTestDate	nillable="true" minOccurs="0"	xsd:date
Location	nillable="true" minOccurs="0"	Type ase:MeterLocation (string ≤ 50 chars.) (§5.124 on page 118)
Manufacturer	nillable="true" minOccurs="0"	Type ase:MeterManufacturer (string ≤ 15 chars.) (§5.125 on page 119)
MeasurementType	nillable="true" minOccurs="0"	Type ase:MeterMeasurementType (string ≤ 4 chars.) (§5.126 on page 119)
Model	nillable="true" minOccurs="0"	Type ase:MeterModel (string ≤ 12 chars.) (§5.127 on page 119)
NextScheduledReadDate	nillable="true" minOccurs="0"	xsd:date
NextTestDate	nillable="true" minOccurs="0"	xsd:date
Password	nillable="true" minOccurs="0"	Type ase:MeterPassword (string ≤ 20 chars.) §5.130 on page 120
Point	nillable="true" minOccurs="0"	Type ase:MeterPoint (string ≤ 2 chars.) (§5.131 on page 120)
Program	nillable="true" minOccurs="0"	Type ase:MeterProgram (string ≤ 30 chars.) (§5.132 on page 120)
ReadTypeCode	nillable="true" minOccurs="0"	Type ase:MeterReadTypeCode (string ≤ 4 chars.) (§5.136 on page 122)
RegisterConfiguration	nillable="true" minOccurs="0"	Type ase:ElectricityMeterRegisterConfiguration (complex) (§5.63 on page 87)
RemotePhoneNumber	nillable="true" minOccurs="0"	Type ase:MeterRemotePhoneNumber (string ≤ 12 chars.) (§5.139 on page 122)
Route	nillable="true" minOccurs="0"	Type ase:MeterRoute (string ≤ 12 chars.) (§5.140 on page 123)
SerialNumber	nillable="true" minOccurs="0"	Type ase:MeterSerialNumber (string ≤ 12 chars.) (§5.141 on page 123)
Status	nillable="true"	Type ase:MeterStatusCode (enumerated list) (§5.142 on page 123)

XPath to aseXML node	aseXML node restrictions	aseXML type
	minOccurs="0"	123)
TestCalibrationProgram	nillable="true" minOccurs="0"	Type ase:MeterTestCalibrationProgram (string ≤ 50 chars.) (§5.143 on page 123)
TestPerformedBy	nillable="true" minOccurs="0"	Type ase:MeterTestPerformedBy (string ≤ 20 chars.) (§5.144 on page 124)
TestResultAccuracy	nillable="true" minOccurs="0"	Type ase:MeterTestResultAccuracy (decimal, format 999.99999) (§5.145 on page 124)
TestResultNotes	nillable="true" minOccurs="0"	Type ase:MeterTestResultNotes (string ≤ 50 chars.) (§5.146 on page 124)
TransformerLocation	nillable="true" minOccurs="0"	Type ase:MeterTransformerLocation (string ≤ 30 chars.) (§5.148 on page 125)
TransformerRatio	nillable="true" minOccurs="0"	Type ase:MeterTransformerRatio (string ≤ 20 chars.) (§5.149 on page 125)
TransformerType	nillable="true" minOccurs="0"	Type ase:MeterTransformerType (string ≤ 20 chars.) (§5.150 on page 125)
Use	nillable="true" minOccurs="0"	5.152Type ase:MeterUse (string ≤ 10 chars.) (§5.152 on page 126)
UserAccessRights	nillable="true" minOccurs="0"	Type ase:MeterUserAccessRights (string ≤ 50 chars.) (§5.153 on page 126)

5.62 Type ase:ElectricityMeterReadData (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityMeterReadData are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Consumption	totalDigits value="15" fractionDigits value="3"	xsd:decimal
Read	maxLength value="15"	xsd:string
ReadDate		xsd:date

5.63 Type ase:ElectricityMeterRegisterConfiguration (complex)

The aseXML documentation for type ase:ElectricityMeterRegisterConfiguration is:

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



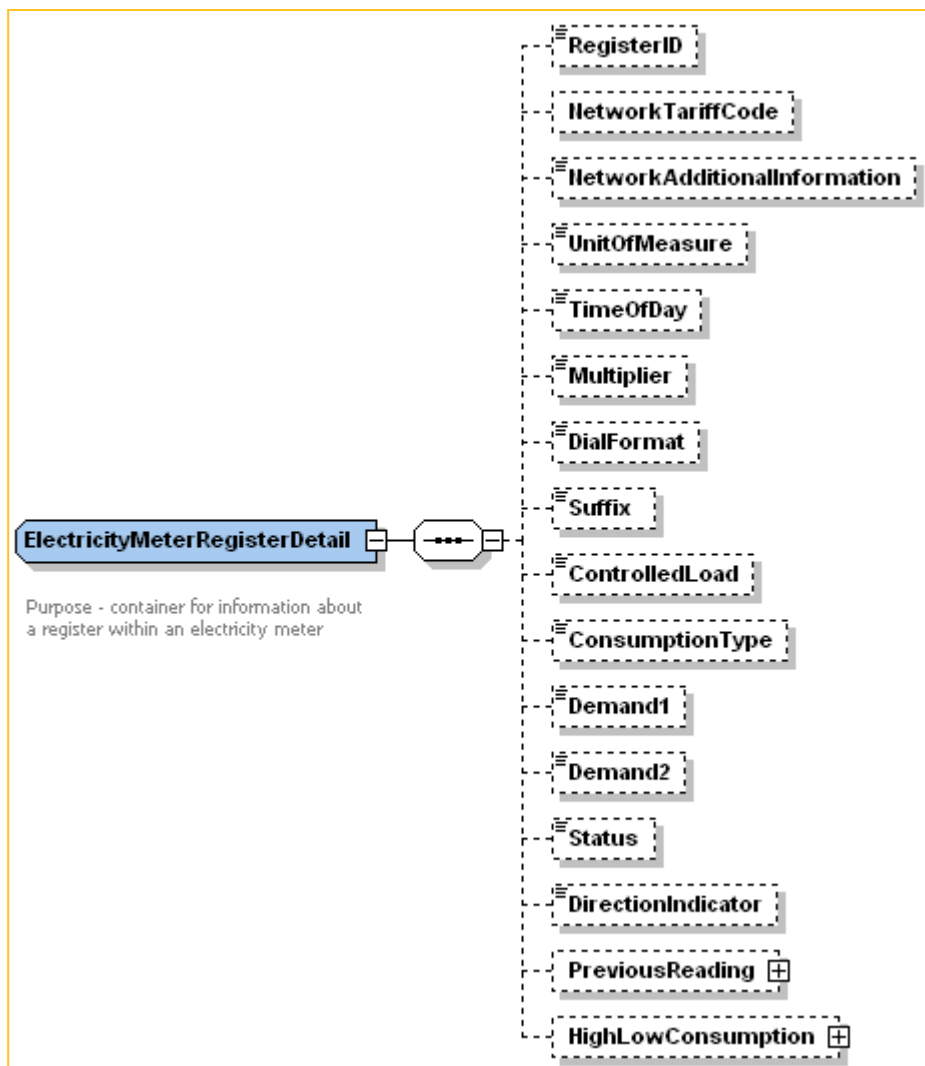
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityMeterRegisterConfiguration are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Register	maxOccurs="unbounded"	Type ase:ElectricityMeterRegisterDetail (complex) (§5.64 below)

5.64 Type ase:ElectricityMeterRegisterDetail (complex)

The aseXML documentation for type ase:ElectricityMeterRegisterDetail is:

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



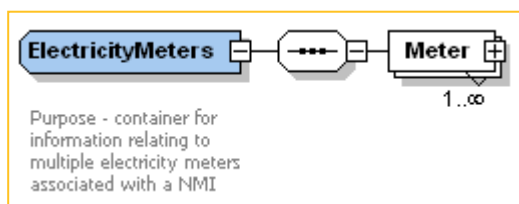
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityMeterRegisterDetail are:

XPath to aseXML node	aseXML node restrictions	aseXML type
ConsumptionType	nillable="true" minOccurs="0"	Type ase:MeterConsumptionType (enumerated) (§5.110 on page 111)
ControlledLoad	nillable="true" minOccurs="0"	Type ase:MeterControlledLoad (string ≤ 100 chars.) (§5.111 on page 112)
Demand1	nillable="true" minOccurs="0"	Type ase:MeterDemand (integer, 8 digits) (§5.117 on page 117)
Demand2	nillable="true" minOccurs="0"	Type ase:MeterDemand (integer, 8 digits) (§5.117 on page 117)
DialFormat	nillable="true" minOccurs="0"	Type ase:MeterDialFormat (string ≤ 50 chars.) (§5.118 on page 117)
DirectionIndicator	nillable="true" minOccurs="0"	Type ase:DirectionIndicator (enumerated list) (§5.53 on page 80)
HighLowConsumption	nillable="true" minOccurs="0"	Type ase:HighLowConsumption (complex) (§5.91 on page 104)
Multiplier	nillable="true" minOccurs="0"	Type ase:MeterMultiplier (decimal) (§5.128 on page 119)
NetworkAdditionalInformation	nillable="true" minOccurs="0"	Type ase:MeterNetworkAdditionalInformation (string) (§5.129 on page 120)
NetworkTariffCode	nillable="true" minOccurs="0"	Type ase:NetworkTariffCode (string ≤ 10 chars.) (§5.156 on page 127)
PreviousReading	nillable="true" minOccurs="0"	Type ase:ElectricityMeterReadData (complex) (§5.62 on page 87)
RegisterID	minOccurs="0"	Type ase:MeterRegisterIdentifier (string ≤ 10 chars.) (§5.137 on page 122)
Status	nillable="true" minOccurs="0"	Type ase:MeterRegisterStatusCode (enumerated) (§5.138 on page 122)
Suffix	nillable="true" minOccurs="0"	Type ase:NMIDataStreamSuffix (string = 2 chars.) (§5.162 on page 129)
TimeOfDay	nillable="true" minOccurs="0"	Type ase:MeterTimeOfDay (string ≤ 10 chars.) (§5.147 on page 124)
UnitOfMeasure	nillable="true" minOccurs="0"	Type ase:MeterUnitOfMeasure (string ≤ 5 chars.) (§5.151 on page 125)

5.65 Type ase:ElectricityMeters (complex)

The aseXML documentation for type ase:ElectricityMeters is:

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



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityMeters are:

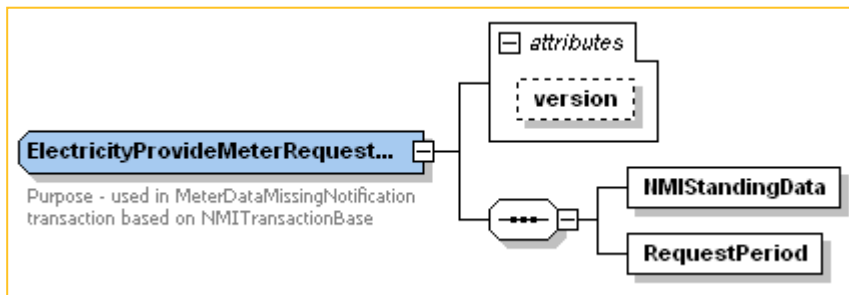
XPath to aseXML node	aseXML node restrictions	aseXML type
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XPath to aseXML node	aseXML node restrictions	aseXML type
Meter	maxOccurs="unbounded"	Type ase:ElectricityMeter (complex) (§5.61 on page 84)

5.66 Type ase:ElectricityProvideMeterRequestData (complex)

The aseXML documentation for type ase:ElectricityProvideMeterRequestData is:

- Purpose - used in MeterDataMissingNotification transaction based on NMITransactionBase.



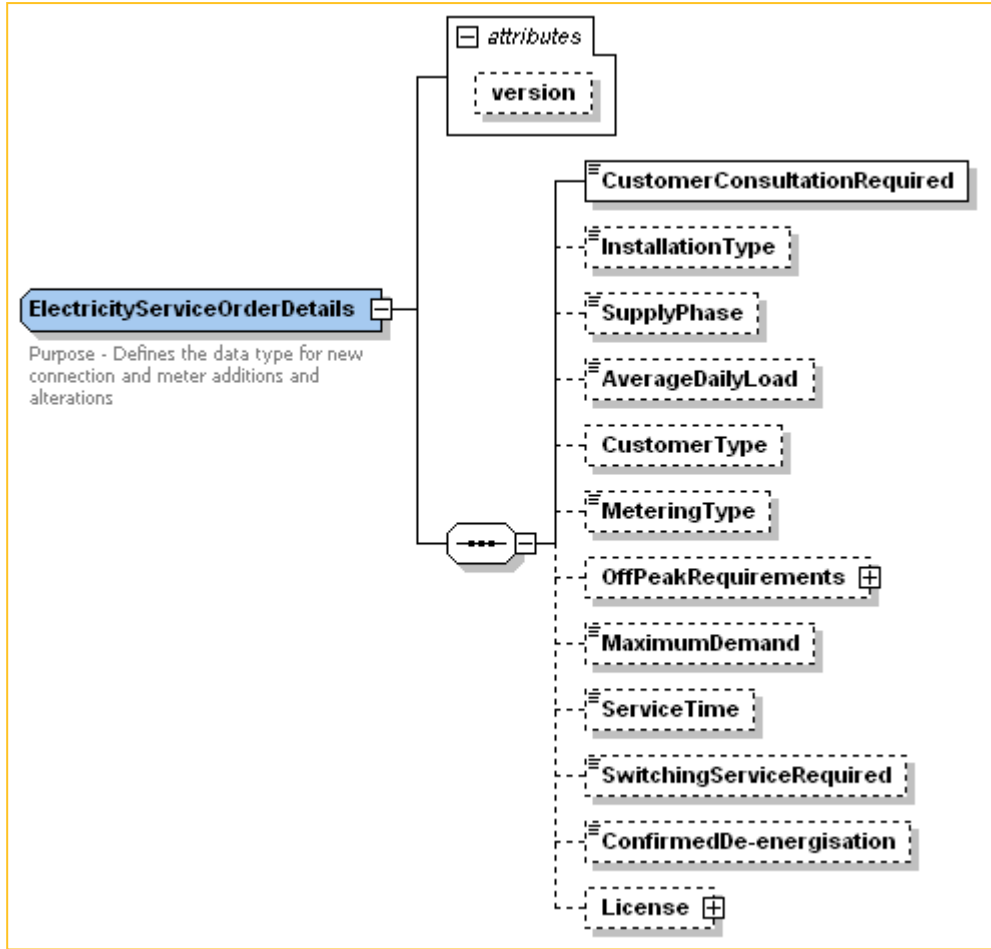
Type ase:ElectricityProvideMeterRequestData extends (abstract) Type ase:NMITransactionBase (§5.165 on page 130). aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityProvideMeterRequestData are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="optional"	r17— Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
NMI	minOccurs="0"	Type ase:NMI (complex) (§5.157 on page 127)
NMIStandingData		(abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129)
RequestPeriod		Type ase:OpenPeriod (complex) (§5.168 on page 131)

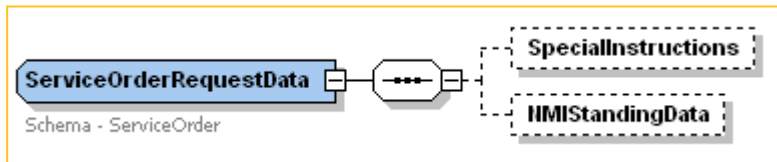
5.67 Type ase:ElectricityServiceOrderDetails (complex)

The aseXML documentation for type ase:ElectricityServiceOrderDetails is:

- Purpose - Defines the data type for new connection and meter additions and alterations.



Type ase:ElectricityServiceOrderDetails extends (abstract) Type ase:ServiceOrderRequestData (complex) (§5.194 on page 142).



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityServiceOrderDetails are:

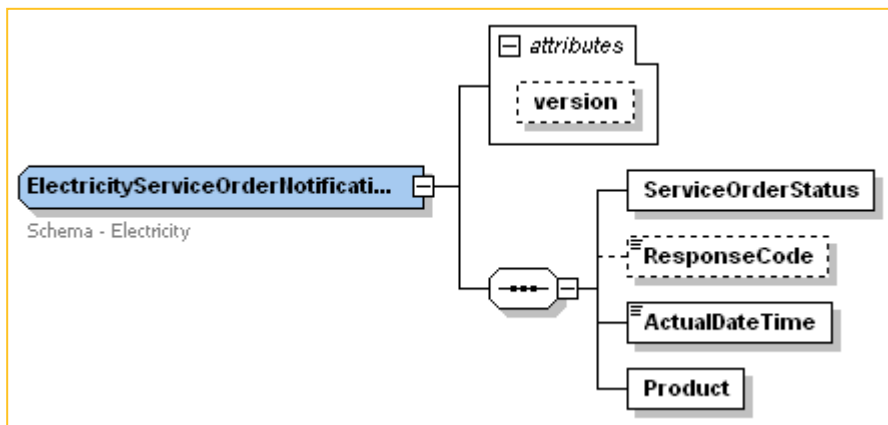
XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="optional"	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
AverageDailyLoad	minOccurs="0"	Type ase:AveragedDailyLoad (integer) (§5.38 on page 74)
ConfirmedDe-energisation	minOccurs="0"	xsd:boolean
CustomerConsultationRequired		xsd:boolean
CustomerType	minOccurs="0"	Type ase:CustomerType (enumerated list) (§5.51 on page 80)
InstallationType	minOccurs="0"	Type ase:InstallationType (enumerated list) (§5.93 on page 104)
License	minOccurs="0"	Type ase:License (complex) (§5.100 on page 107)
MaximumDemand	minOccurs="0"	Type ase:MeterDemand (integer, 8 digits) (§5.117 on page 117)
MeteringType	minOccurs="0"	Type ase:MeteringType (enumerated list) (§5.121 on page

XPath to aseXML node	aseXML node restrictions	aseXML type
		118)
NMIStandingData	minOccurs="0"	(abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129)
OffPeakRequirements	minOccurs="0"	Type ase:SpecialComments (complex) (§5.207 on page 148)
ServiceTime	minOccurs="0"	Type ase:ServiceTimeType (enumerated list) (§5.201 on page 145)
SpecialInstructions	minOccurs="0"	Type ase:SpecialComments (complex) (§5.207 on page 148)
SupplyPhase	minOccurs="0"	Type ase:SupplyPhase (enumerated list) (§5.208 on page 148)
SwitchingServiceRequired	minOccurs="0"	xsd:Boolean

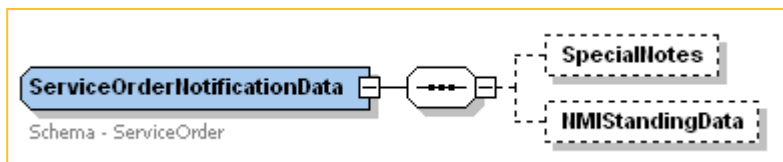
5.68 Type ase:ElectricityServiceOrderNotificationData (complex)

The aseXML documentation for type ase:ElectricityServiceOrderNotificationData is:

- Schema - Electricity



Type ase:ElectricityServiceOrderNotificationData extends (abstract) Type ase:ServiceOrderNotificationData (complex) (§5.192 on page 140).

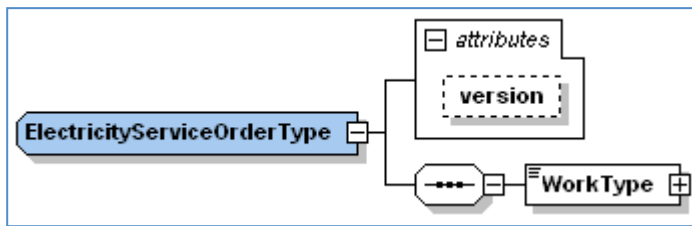


aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityServiceOrderNotificationData are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="optional"	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
ActualDateTime		xsd:dateTime
NMIStandingData	minOccurs="0"	(abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129)
Product		Type ase:Product (complex) (§5.178 on page 135)

XPath to aseXML node	aseXML node restrictions	aseXML type
ResponseCode	minOccurs="0"	Type ase:SORDResponseCode (enumerated list) (§5.206 on page 147)
ServiceOrderStatus		Type ase:ServiceOrderStatus (enumerated list) (§5.196 on page 143)
SpecialNotes	minOccurs="0"	Type ase:SpecialComments (complex) (§5.207 on page 148)

5.69 Type ase:ElectricityServiceOrderType (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityServiceOrderType are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="optional"	r19—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
element using the type ase:ElectricityServiceOrderType		(abstract) Type ase:ServiceOrderTypeBase (complex) (§5.199 on page 144)
WorkType		complexType, see Note below

For example:

```
<... version="r19" xsi:type="ase:ElectricityServiceOrderType"><WorkType etc.></...>
```

Note:

- Element ase:ElectricityServiceOrderType/WorkType is a sequence containing:

XPath to aseXML node	aseXML node restrictions	aseXML type
@workSubType	use="optional"	Type ase:ServiceOrderSubType (enumerated list) (§5.197 on page 144)
element		Type ase:ServiceOrderType (enumerated list) (§5.198 on page 144)

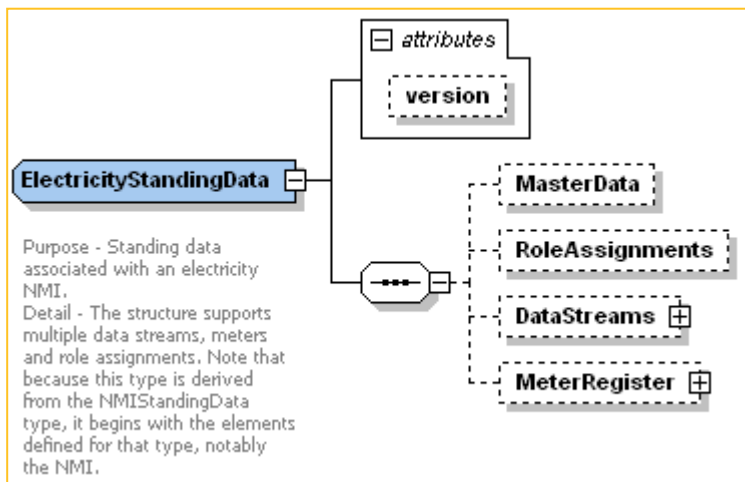
For example:

```
<WorkType workSubType="Remove Fuse">De-energisation</WorkType>
```

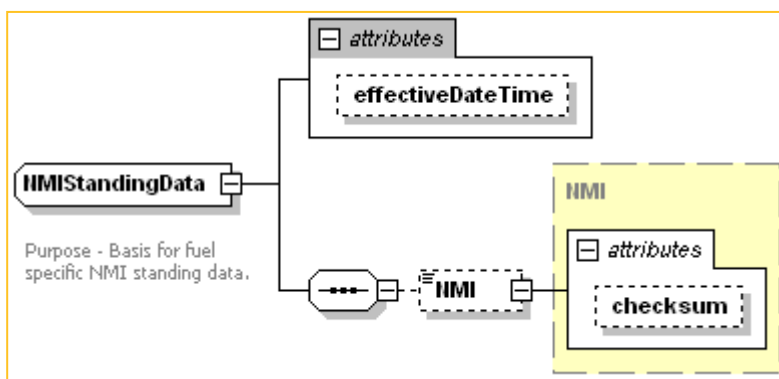
5.70 Type ase:ElectricityStandingData (complex)

The aseXML documentation for type ase:ElectricityStandingData is:

- Purpose - Standing data associated with an electricity NMI.
- Detail - The structure supports multiple data streams, meters and role assignments. Note that because this type is derived from the NMISstandingData type, it begins with the elements defined for that type, notably the NMI.



Type ase:ElectricityStandingData extends (*abstract*) Type ase:NMISstandingData (complex) (§5.163 on page 129).



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityStandingData are:

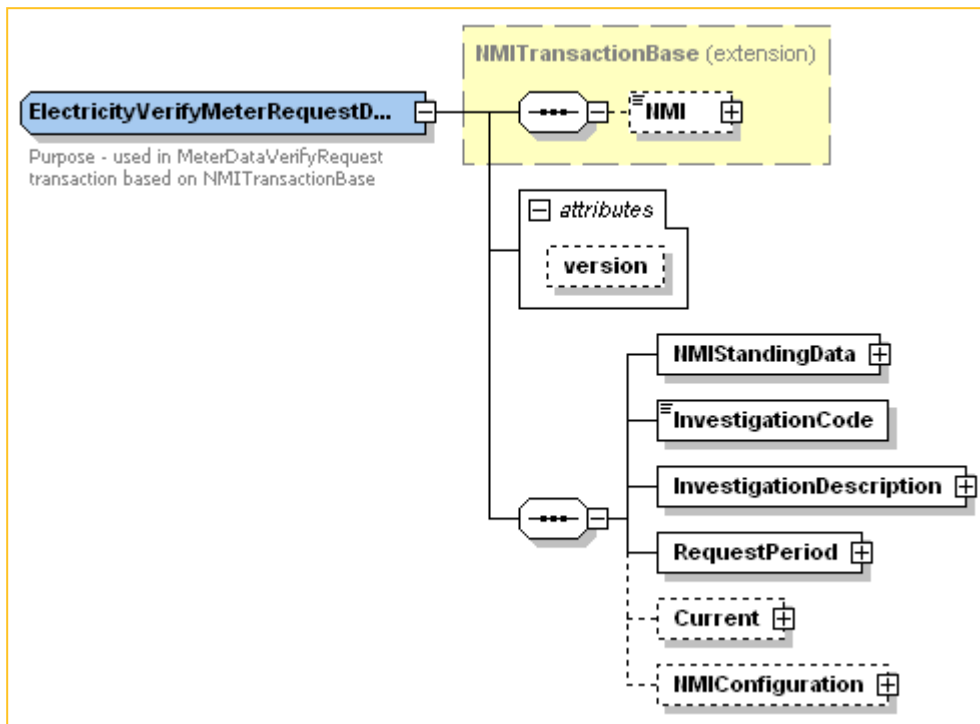
XPath to aseXML node	aseXML node restrictions	aseXML type
@effectiveDateTime	use="optional"	xsd:dateTime
@version	use="optional"	r25—Type ase:ReleaseIdentifier (string with pattern), §5.183 on page 137

XPath to aseXML node	aseXML node restrictions	aseXML type
DataStream	minOccurs="0"	Type ase:ElectricityDataStreams (complex) (§5.59 on page 82)
MasterData	minOccurs="0"	Type ase:ElectricityMasterStandingData (complex) (§5.60 on page 83)
MeterRegister	minOccurs="0"	Type ase:ElectricityMeters (complex) (§5.65 on page 89)
NMI	minOccurs="0"	Type ase:NMI (complex) (§5.157 on page 127)
RoleAssignments	minOccurs="0"	Type ase:RoleAssignments (complex) (§5.187 on page 138)

5.71 Type ase:ElectricityVerifyMeterRequestData (complex)

The aseXML documentation for type ase:ElectricityVerifyMeterRequestData is:

- Purpose - used in MeterDataVerifyRequest transaction based on NMITransactionBase.



Type ase:ElectricityVerifyMeterRequestData extends (*abstract*) Type ase:NMITransactionBase (complex) (§5.165 on page 130). aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityVerifyMeterRequestData are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="optional"	r17—Type ase:ReleaseIdentifier (string with pattern), §5.183 on page 137)
Current	minOccurs="0"	Type ase:ElectricityMeterReadData (complex) (§5.62 on page 87)
InvestigationCode		Type ase:IndexInvestigationCode (enumerated) (§5.92 on page 104)
InvestigationDescription		Type ase:SpecialComments (complex) (§5.207 on page 148)
NMI	minOccurs="0"	Type ase:NMI (complex) (§5.157 on page 127)

XPath to aseXML node	aseXML node restrictions	aseXML type
NMIConfiguration	minOccurs="0"	Type ase:NMIConfigurationType (complex) (§5.161 on page 128)
NMIStandingData		(abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129)
RequestPeriod		Type ase:OpenPeriod (complex) (§5.168 on page 131)

5.72 Type ase:EmbeddedNetworkIdentifier (string ≤ 10 chars.)

The aseXML documentation for type ase:EmbeddedNetworkIdentifier is:

- Purpose - Identify an embedded network.
- MSATS Data Model Column - EmbNetIdCode, EmbNetParent, EmbNetChild.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:EmbeddedNetworkIdentifier	maxLength value="10"	xsd:string

5.73 Type ase:EMSD_CustomerClassificationCode (string 1-20 chars.)

The aseXML documentation for type ase:EMSD_CustomerClassificationCode is:

- Classification of customer type, value assigned by FRMP.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:EMSD_CustomerClassificationCode	maxLength value="20" minLength value="1" whiteSpace value="collapse"	xsd:string

5.74 Type ase:EMSD_CustomerThresholdCode (string 1-20 chars.)

The aseXML documentation for type ase:EMSD_CustomerThresholdCode is:

- Classification of customer consumption threshold, value assigned by DNSP.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:EMSD_CustomerThresholdCode	maxLength value="20" minLength value="1" whiteSpace value="collapse"	xsd:string

5.75 Type ase:EnergyMarket (enumerated list)

The aseXML documentation for type ase:EnergyMarket is:

- Purpose - Indicate the energy market to which the message belongs.
- Detail - Markets are currently defined for the National Electricity Market, the NSW Gas Market and the Victorian Gas Market.

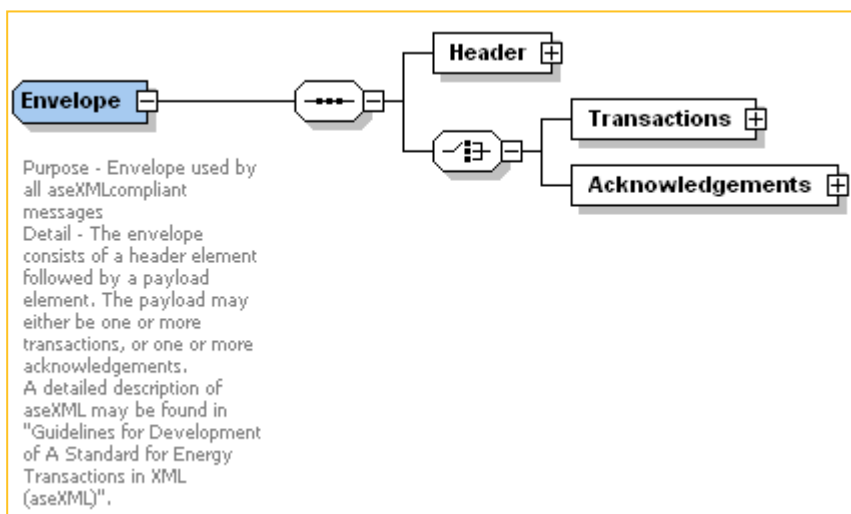
Type ase:EnergyMarket has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

AATELEC.	ACTELEC.	NEM.	NSWELEC.	NTELEC.
QLDELEC.	SAELEC.	TASELEC.	VICELEC.	WAELEC.
AATGAS.	ACTGAS.	NSWGAS.	NTGAS.	QLDGAS.
SAGAS.	TASGAS.	VICGAS.	WAGAS.	

5.76 Type ase:Envelope (complex)

The aseXML documentation for type ase:Envelope is:

- Purpose - Envelope used by all aseXMLcompliant messages.
- Detail - The envelope consists of a header element followed by a payload element. The payload may either be one or more transactions, or one or more acknowledgements.
- A detailed description of aseXML may be found in "Guidelines for Development of A Standard for Energy Transactions in XML (aseXML)".



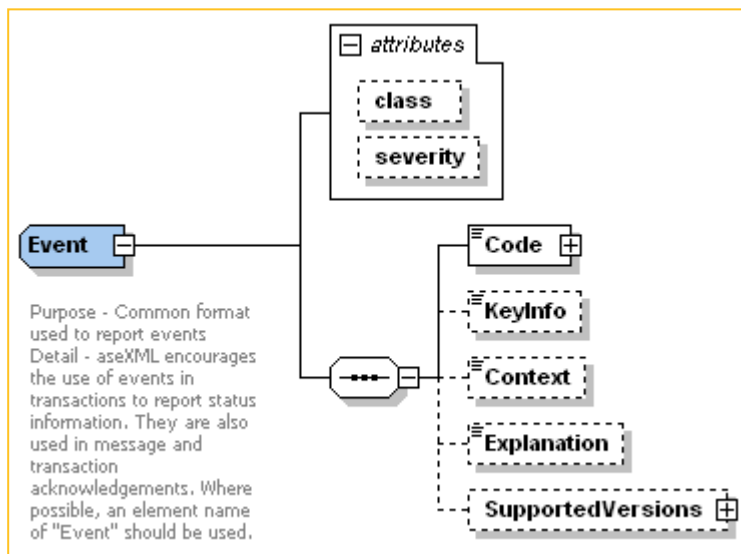
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Envelope are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Acknowledgements		Type ase:Acknowledgements (complex) (§5.2 on page 55)
Header		Type ase:Header (complex) (§5.90 on page 103)
Transactions		Type ase:Transactions (complex) (§5.214 en page 154)

5.77 Type ase:Event (complex)

The aseXML documentation for type ase:Event is:

- Purpose - Common format used to report events.
- Detail - aseXML encourages the use of events in transactions to report status information. They are also used in message and transaction acknowledgements. Where possible, an element name of "Event" should be used.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Event are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@class	use="optional" default="Application"	Type ase:EventClass (enumerated) (§5.78 on page 99)
@severity	use="optional" default="Fatal"	Type ase:EventSeverity (enumerated) (§5.83 on page 101)
Code		Type ase:EventCode (complex) (§5.79 on page 99)
Context	minOccurs="0"	Type ase:EventContext (string ≤ 80 chars.) (§5.81 on page 100)
Explanation	minOccurs="0"	xsd:string
KeyInfo	minOccurs="0"	Type ase:EventKeyInfo (string ≤ 80 chars.) (§5.82 on page 100)
SupportedVersions	minOccurs="0"	Type ase:EventSupportedVersions (complex) (§5.84 on page 101)

The ASWG defines ranges of Event Codes ([Ga 11.3]). For the reserved event codes, refer to [Ga 11.8]. For business event codes, see [B2BTG 5] and the relevant business procedure (for example, [B2BCSDN], [B2BMDP], [B2BOWNP], [B2BSOP]).

5.78 Type ase:EventClass (enumerated)

The aseXML documentation for type ase:EventClass is:

- Purpose - Provide a high level categorisation of events.
- Detail - Message events pertain to the structure and delivery of aseXML messages.
- Application events are generated by the applications communicating via aseXML.
- Processing events reflect environmental issues associated with running applications.

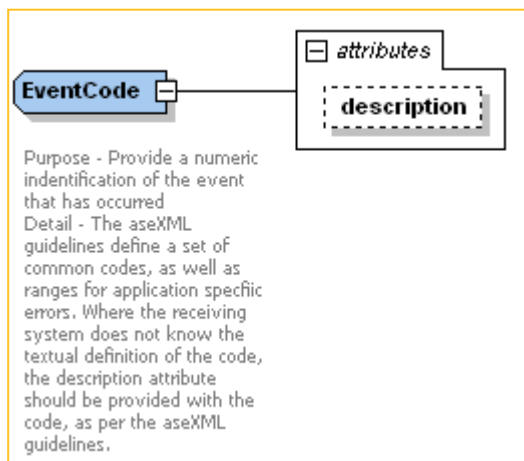
Type ase:EventClass has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Message.	Application.	Processing.
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5.79 Type ase:EventCode (complex)

The aseXML documentation for type ase:EventCode is:

- Purpose - Provide a numeric identification of the event that has occurred.
- Detail - The aseXML guidelines define a set of common codes, as well as ranges for application specific errors. Where the receiving system does not know the textual definition of the code, the description attribute should be provided with the code, as per the aseXML guidelines.



Type ase:EventCode extends base="EventCodeBase". aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:EventCode are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@description	use="optional"	xsd:string
element using the type ase:EventCode		Type ase:EventCodeBase (nonNegativeInteger) (\$5.80 below)

5.80 Type ase:EventCodeBase (nonNegativeInteger)

The aseXML documentation for type ase:EventCodeBase is:

- Purpose - Helper type in defining EventCode.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:EventCodeBase		xsd:nonNegativeInteger

5.81 Type ase:EventContext (string ≤ 80 chars.)

The aseXML documentation for type ase:EventContext is:

- Purpose - Identify the specific data/condition that caused the event.
- Detail - The portion of the input to which the event applies should be provided.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:EventContext	maxLength value="80"	xsd:string

5.82 Type ase:EventKeyInfo (string ≤ 80 chars.)

The aseXML documentation for type ase:EventKeyInfo is:

- Purpose - Provide information to allow identification of the data that triggered the event.
- Detail - Where the combination of class and code are insufficient to completely describe an event, KeyInfo may be used to provide further detail as to the information needed to locate the source of the event within the original transaction.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:EventKeyInfo	maxLength value="80"	xsd:string

5.83 Type ase:EventSeverity (enumerated)

The aseXML documentation for type ase:EventSeverity is:

- Purpose - Provide an indication as to the action required as a result of receiving an event.
- Detail - The severity dictates the further processing possible after receiving the event.

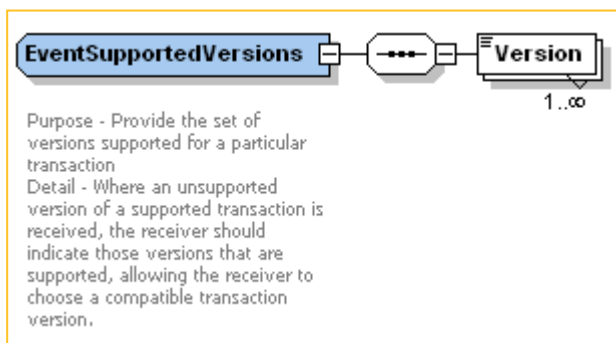
Type ase:EventSeverity has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Information.	Warning.	Error.	Fatal.
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5.84 Type ase:EventSupportedVersions (complex)

The aseXML documentation for type ase:EventSupportedVersions is:

- Purpose - Provide the set of versions supported for a particular transaction.
- Detail - Where an unsupported version of a supported transaction is received, the receiver should indicate those versions that are supported, allowing the receiver to choose a compatible transaction version.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:EventSupportedVersions are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Version	maxOccurs="unbounded"	Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)

5.85 Type ase:FeederClass (string 1-15 chars.)

The aseXML documentation for type ase:FeederClass is:

- Classification of High Voltage distribution line feeding property.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:FeederClass	maxLength value="15" minLength value="1" whiteSpace value="collapse"	xsd:string

5.86 Type ase:GasMeterDogCode (enumerated)

The aseXML documentation for type ase:GasMeterDogCode is:

- Schema - Gas

Type ase:GasMeterDogCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

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

5.87 Type ase:GasMeterPosition (enumerated)

The aseXML documentation for type ase:GasMeterPosition is:

- Schema - Gas

Type ase:GasMeterPosition has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

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

5.88 Type ase:HazardCode (string)

The aseXML documentation for type ase:HazardCode is:

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

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:HazardCode		xsd:string

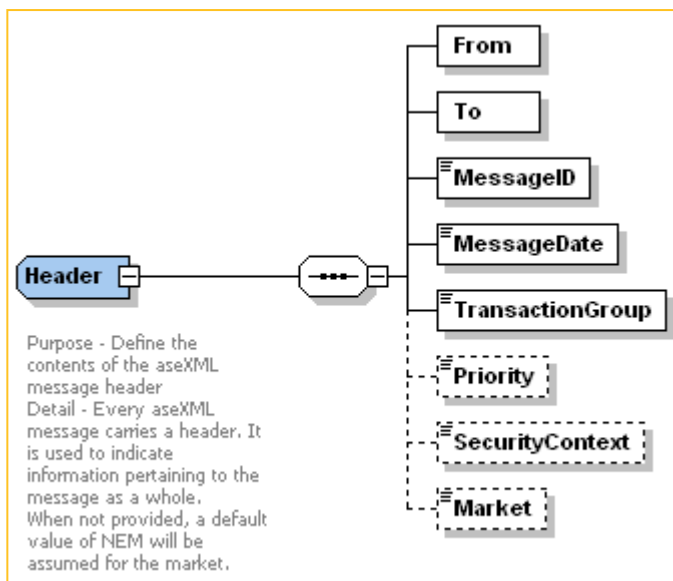
5.89 Type ase:HazardDescription (string ≤ 80 chars.)

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:HazardCode	maxLength value="80"	xsd:string

5.90 Type ase:Header (complex)

The aseXML documentation for type ase:Header is:

- Purpose - Define the contents of the aseXML message header.
- Detail - Every aseXML message carries a header. It is used to indicate information pertaining to the message as a whole.
- When not provided, a default value of NEM will be assumed for the market.



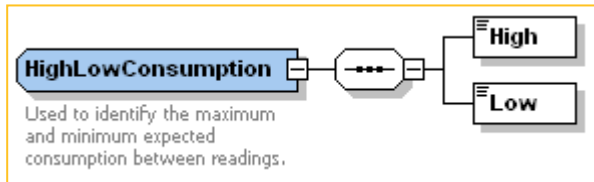
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Header are:

XPath to aseXML node	aseXML node restrictions	aseXML type
From		Type ase:PartyIdentifier (complex) (§5.169 en page 132)
Market	minOccurs="0" default="NEM"	Type ase:EnergyMarket (enumerated list) (§5.75 on page 97)
MessageDate		xsd:dateTime
MessageID		Type ase:MessageIdentifier (string, 1-36 chars.) (§5.102 on page 109)
Priority	minOccurs="0"	Type ase:TransactionPriority (enumerated) (§5.213 on page 154)
SecurityContext	minOccurs="0"	Type ase:MessageSecurityContext (string, ≤ 15 chars.) (§5.103 on page 110)
To		Type ase:PartyIdentifier (complex) (§5.169 en page 132)
TransactionGroup		Type ase:TransactionGroup (enumerated) (§5.211 on page 152)

5.91 Type ase:HighLowConsumption (complex)

The aseXML documentation for type ase:HighLowConsumption is:

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



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:HighLowConsumption are:

XPath to aseXML node	aseXML node restrictions	aseXML type
High		xsd:integer
Low		xsd:integer

5.92 Type ase:IndexInvestigationCode (enumerated)

The aseXML documentation for type ase:IndexInvestigationCode is:

- Schema - Gas

Type ase:IndexInvestigationCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Confirm Reading For Vacant Site.	Confirm Zero Consumption.	Incomplete Data.	Invalid MDFF Data.	Invalid Standing Data.
Missing Datastream.	Require Actual Reading or Substitute.	Require Final Substitute.	Require Latest Version.	Scheduled Reading Required.
Service Order Reading Required.	Verify High Reading.	Verify Low Reading.	Customer Away.	Customer Query.
Customer Read.	High Account.	Zero Consumption.	Recipient Not Responsible For The NMI.	Other.

5.93 Type ase:InstallationType (enumerated list)

The aseXML documentation for type ase:InstallationType is:

- Purpose - Defines a list of valid Installation type.

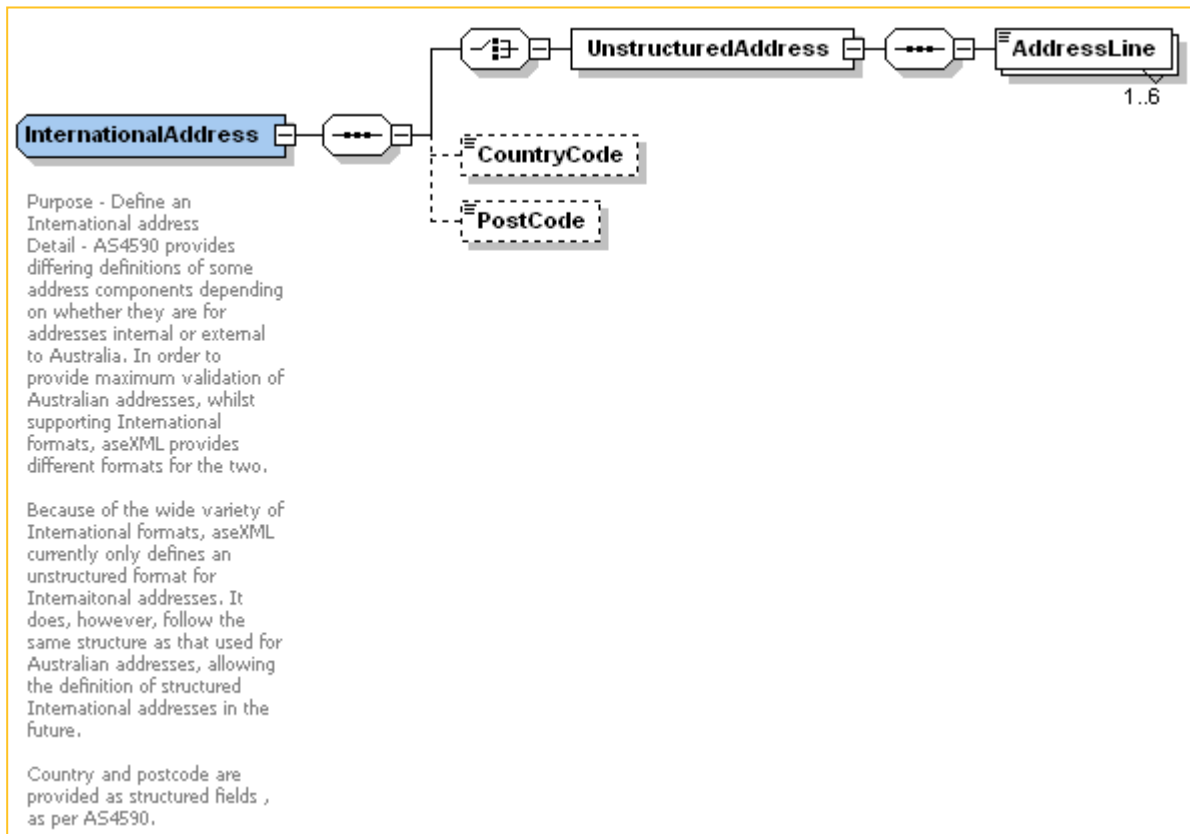
Type ase:InstallationType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Underground.	Overhead.	Underground To Overhead Mains.	Overhead To Underground Mains.	Transformer Overhead.
Transformer Ground Level.				

5.94 Type ase:InternationalAddress (complex)

The aseXML documentation for type ase:InternationalAddress is:

- Purpose - Define an International address.
- Detail - AS4590 provides differing definitions of some address components depending on whether they are for addresses internal or external to Australia. In order to provide maximum validation of Australian addresses, whilst supporting International formats, aseXML provides different formats for the two.
- Because of the wide variety of International formats, aseXML currently only defines an unstructured format for Internaitonal addresses. It does, however, follow the same structure as that used for Australian addresses, allowing the definition of structured International addresses in the future.
- Country and postcode are provided as structured fields , as per AS4590.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Address are:

XPath to aseXML node	aseXML node restrictions	aseXML type
CountryCode	minOccurs="0"	Type ase:InternationalCountryCode (string, patterned) (§5.96 below)
PostCode	minOccurs="0"	Type ase:InternationalPostCode (string, patterned) (§5.97 below)
UnstructuredAddress		xsd:complexType, sequence; see Note <input type="checkbox"/> below

Notes:

- The ase:UnstructuredAddress is a sequence of ase:AddressLine elements, where:

XPath to aseXML node	aseXML node restrictions	aseXML type
AddressLine	maxOccurs="6"	Type ase:InternationalAddressLine (string, ≤ 80 chars.) (§5.95 below)

5.95 Type ase:InternationalAddressLine (string, ≤ 80 chars.)

The aseXML documentation for type ase:InternationalAddressLine is:

- Purpose - Define a line of unstructured International address information.
- Detail - Given the wide variety of international addresses, the aseXML address format currently supports only unstructured international addresses.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:InternationalAddressLine	maxLength value="80"	xsd:string

5.96 Type ase:InternationalCountryCode (string, patterned)

The aseXML documentation for type ase:InternationalCountryCode is:

- Purpose - Define International country code as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:InternationalCountryCode	pattern value="[p{Lu}]{1,3}"	xsd:string

5.97 Type ase:InternationalPostCode (string, patterned)

The aseXML documentation for type ase:InternationalPostCode is:

- Purpose - Define International postcode as per Australian Standard AS4590.

- Detail - In order to provide better validation of Australian postcodes, the definition for International postcodes has been separated from that of Australian postcodes.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:InternationalPostCode	pattern value="[p{L}\p{N}]{1,12}"	xsd:string

5.98 Type ase:JurisdictionCode (string ≤ 3 chars.)

The aseXML documentation for type ase:JurisdictionCode is:

- Purpose - Identify the jurisdictions of relevance to aseXML.
- MSATS Data Model Column - JurisdictionCode

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:JurisdictionCode	maxLength value="3"	xsd:string

5.99 Type ase:KeyCode (string 1–8 chars.)

The aseXML documentation for type ase:KeyCode is:

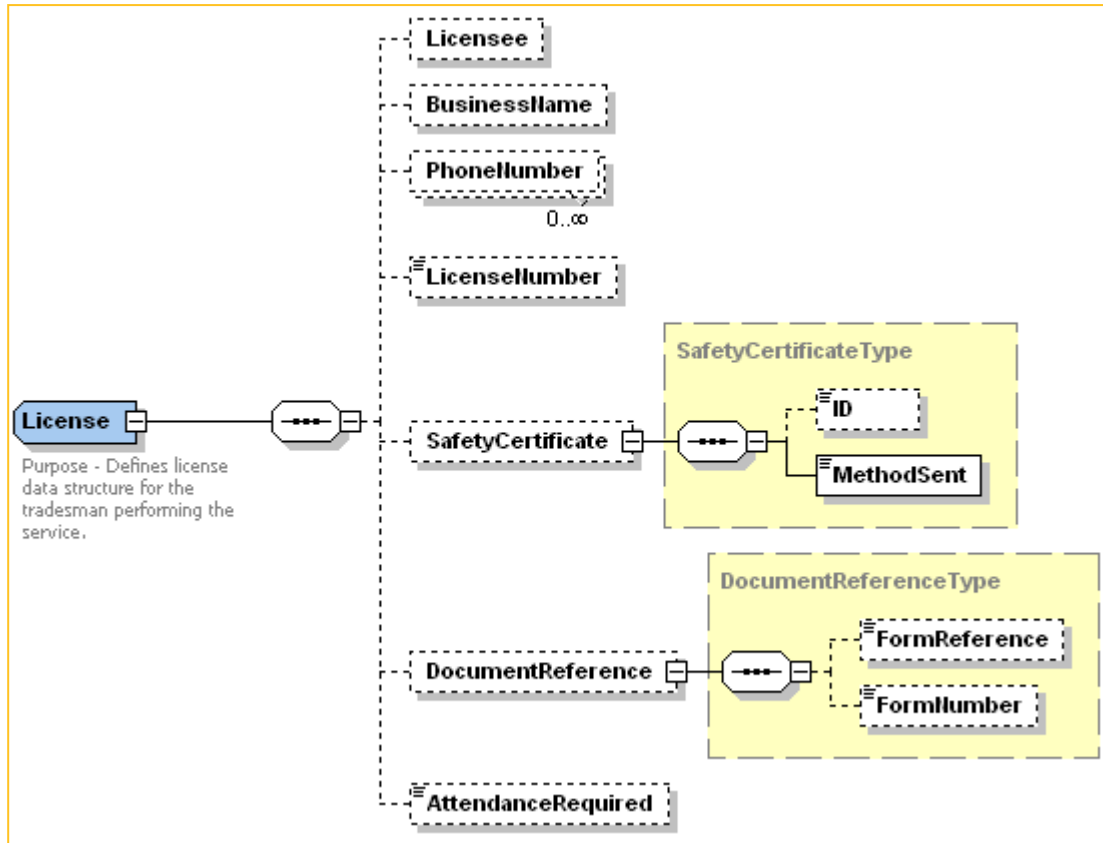
- Identifies the type of key and/or location of the key required to access a meter at a site. This is required in standing data as the Franchise market Retailer still carries responsibility for performing site activities for some areas of the network.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:KeyCode	maxLength value="8" minLength value="1" whiteSpace value="collapse"	xsd:string

5.100 Type ase:License (complex)

The aseXML documentation for type ase:License is:

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



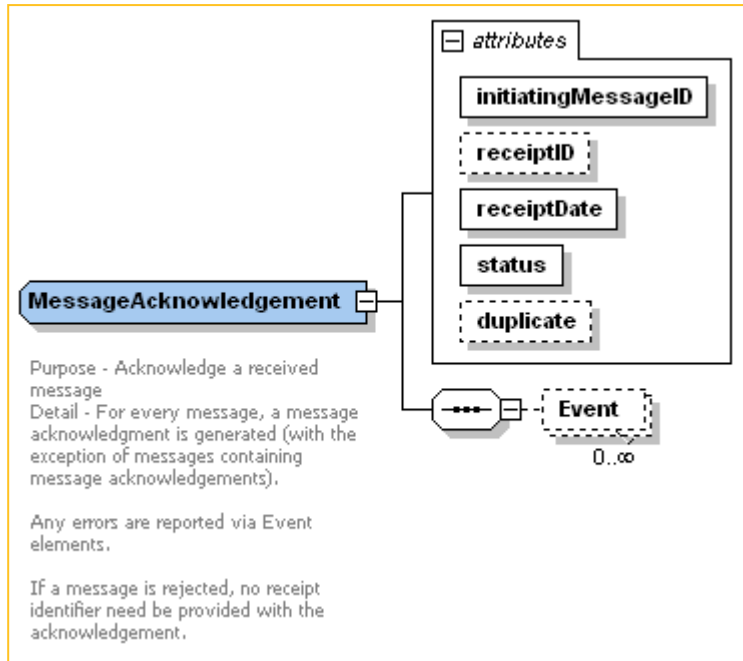
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:License are:

XPath to aseXML node	aseXML node restrictions	aseXML type
AttendanceRequired	minOccurs="0"	xsd:boolean
BusinessName"	minOccurs="0"	Type ase:BusinessName (complex) (§5.39 on page 74)
DocumentReference	minOccurs="0"	Type ase:DocumentReferenceType (complex) (§5.57 en page 81)
Licensee	minOccurs="0"	Type ase:PersonName (complex) (§5.170 on page 133)
LicenseNumber	minOccurs="0"	Type ase:License (complex) (§5.100 on page 107)
PhoneNumber"	minOccurs="0" maxOccurs="unbounded"	Type ase:AustralianPhoneNumber (complex) (§5.21 on page 64)
SafetyCertificate	minOccurs="0"	Type ase:SafetyCertificateType (complex) (§5.189 on page 139)

5.101 Type ase:MessageAcknowledgement (complex)

The aseXML documentation for type ase:MessageAcknowledgement is:

- Purpose - Acknowledge a received message.
- Detail - For every message, a message acknowledgment is generated (with the exception of messages containing message acknowledgements).
- Any errors are reported via Event elements.
- If a message is rejected, no receipt identifier need be provided with the acknowledgement.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:MessageAcknowledgement are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@initiatingMessageID	use="required"	Type ase:MessageIdentifier (string, 1-36 chars.) (§5.102 below)
@receiptDate	use="required"	xsd:dateTime
@receiptID	use="optional"	Type ase:ReceiptIdentifier (string, 1-36 chars.) (§5.181 on page 136)
@status	use="required"	Type ase:MessageStatus (enumerated) (§5.104 on page 110)
duplicate	default="No"	Type ase:YesNo (enumerated list) (§5.219 on page 156)
Event	minOccurs="0" maxOccurs="unbounded"	Type ase:Event (complex) (§5.77 on page 98)

5.102 Type ase:MessageIdentifier (string, 1-36 chars.)

The aseXML documentation for type ase:MessageIdentifier is:

- Purpose - Uniquely identify every message generated by the message sender.
- Detail - Note that message identifiers do not have to be globally unique, only unique to a particular sender. However, the length has been chosen such that UUIDs can be used as message identifiers if considered appropriate, guaranteeing global uniqueness.
- A message acknowledgement identifies which message it is acknowledging by providing the message identifier as an attribute.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MessageIdentifier	minLength value="1", maxLength value="36"	xsd:string

5.103 Type ase:MessageSecurityContext (string, ≤ 15 chars.)

The aseXML documentation for type ase:MessageSecurityContext is:

- Purpose - Provide the processing priority desired by the sender.
- Detail - The sender can indicate information needed by the receiver to determine whether or not the sender is authorised to submit the transactions within the message.
- For the Market Settlement And Transfer System (MSATS), this will be used to hold the participant userid from which the context for transaction processing is determined.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MessageSecurityContext	maxLength value="15"	xsd:string

5.104 Type ase:MessageStatus (enumerated)

The aseXML documentation for type ase:MessageStatus is:

- Purpose - Indicate the acceptance or rejection of the message.

Type ase:MessageStatus has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Accept.	Reject.
---------	---------

5.105 Type ase:MeterAdditionalSiteInformation (string ≤ 100 chars.)

The aseXML documentation for type ase:MeterAdditionalSiteInformation is:

- MSATS Data Model Column - AddSiteInfo

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterAdditionalSiteInformation	maxLength value="100"	xsd:string

5.106 Type ase:MeterAssetManagementPlan (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterAssetManagementPlan is:

- MSATS Data Model Column - AssetMgmtPlan

XPath to aseXML node	aseXML node restrictions	aseXML type

element using the type ase:MeterAssetManagementPlan	maxLength value="50"	xsd:string
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5.107 Type ase:MeterCalibrationTables (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterCalibrationTables is:

- MSATS Data Model Column – CalibrationTables.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterCalibrationTables	maxLength value="50"	xsd:string

5.108 Type ase:MeterCommunicationsEquipmentType (string ≤ 4 chars.)

The aseXML documentation for type ase:MeterCommunicationsEquipmentType is:

- MSATS Data Model Column – CommEquipType.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterCommunicationsEquipmentType	maxLength value="4"	xsd:string

5.109 Type ase:MeterCommunicationsProtocol (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterCommunicationsProtocol is:

- MSATS Data Model Column – CommProtocol.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterCommunicationsProtocol	maxLength value="50"	xsd:string

5.110 Type ase:MeterConsumptionType (enumerated)

The aseXML documentation for type ase:MeterConsumptionType is:

- MSATS Data Model Column -

Type ase:MeterStatusCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Actual.	Cumulative.
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5.111 Type ase:MeterControlledLoad (string ≤ 100 chars.)

The aseXML documentation for type ase:MeterControlledLoad is:

- MSATS Data Model Column - ControlledLoad

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterControlledLoad	length value="100"	xsd:string

5.112 Type ase:MeterDataConversion (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterDataConversion is:

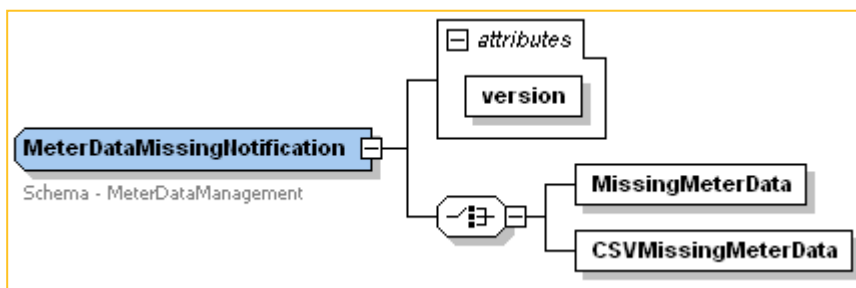
- MSATS Data Model Column – DataConv.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterDataConversion	maxLength value="50"	xsd:string

5.113 Type ase:MeterDataMissingNotification (complex)

The aseXML documentation for type ase:MeterDataMissingNotification is:

- Schema - MeterDataManagement



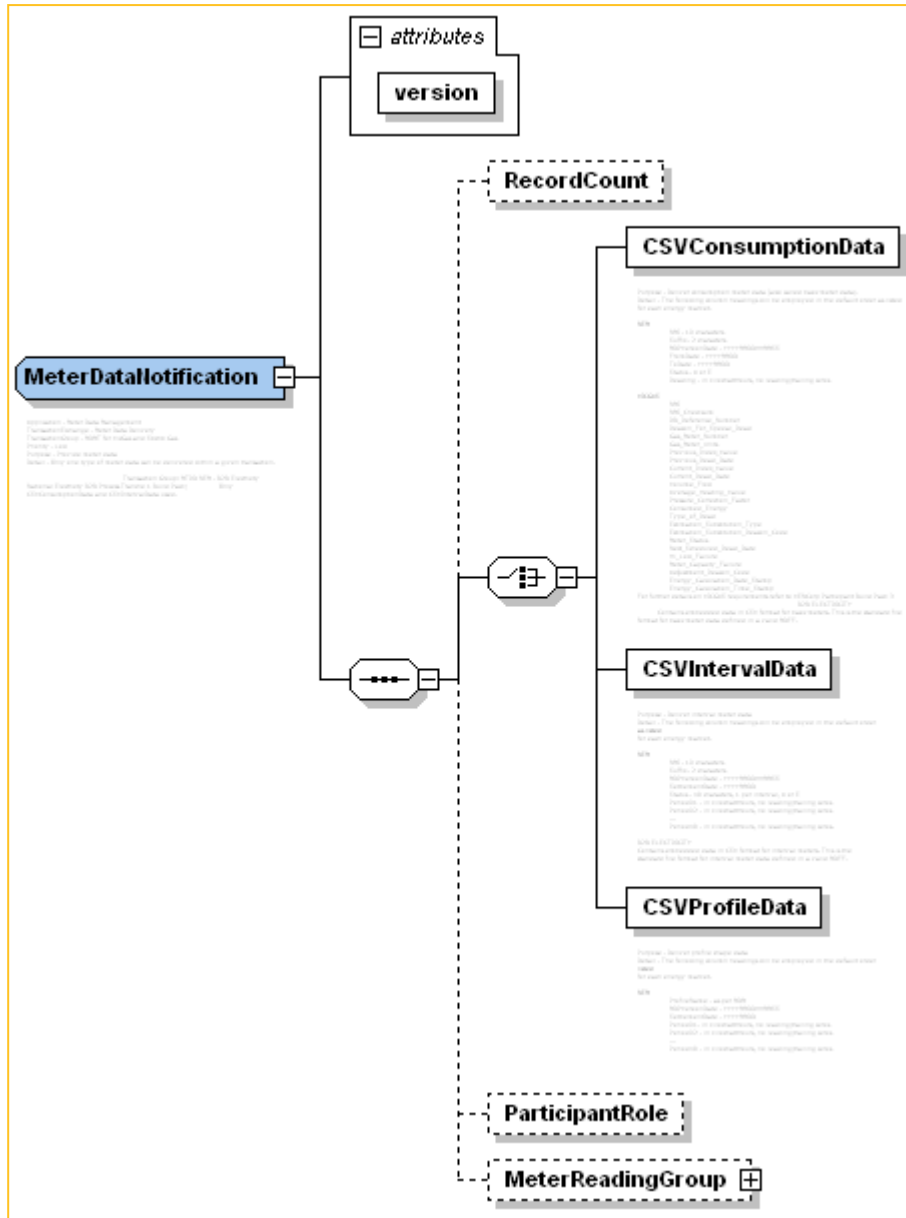
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:MeterDataMissingNotification are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r14—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
CSVMissingMeterData		Type ase:CSVRequestFormat (complex) (§5.45 en page 76)
MissingMeterData		(abstract) Type ase:NMITransactionBase (§5.165 en page 130)

5.114 Type ase:MeterDataNotification (complex)

The aseXML documentation for type ase:MeterDataNotification is:

- Application - Meter Data Management
- TransactionExchange - Meter Data Delivery
- TransactionGroup - MDMT for VicGas and SAWA Gas
- Priority - Low
- Purpose - Provide meter data.
- Detail - Only one type of meter data can be delivered within a given transaction.
- Transaction Group: MTRD NEM - B2B Electricity National Electricity B2B Process Tranche 1 Build Pack; Only CSVConsumptionData and CSVIntervalData used.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:MeterDataNotification:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r25—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
CSVConsumptionData	nillable="true"	Type ase:CSVDataWithName (§5.44 on page 76); also see note 1 on page 115
CSVIntervalData	nillable="true"	Type ase:CSVDataWithName (§5.44 on page 76); also see note 2 on page 115
CSVProfileData	nillable="true"	Type ase:CSVDataWithName (§5.44 on page 76); also see note 3 on page 116
MeterReadingGroup	minOccurs="0"	Type ase:MeterReadingGroup (complex) (§5.133 on page 121)
ParticipantRole	minOccurs="0"	Type ase:RoleAssignment (§5.186 on page 138)
RecordCount	minOccurs="0"	Type ase:RecordCount (§5.182 on page 137)

Notes:

1. The aseXML documentation for element ase:CSVConsumptionData is:
 - Purpose - Deliver consumption meter data (also called basic meter data).
 - Detail - The following column headings will be employed in the default order as listed for each energy market.

NEM

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

VICGAS

NMI	NMI_Checksum	RB_Reference_Number	Reason_For_Special_Read
Gas_Meter_Number	Gas_Meter_Units	Previous_Index_Value	Previous_Read_Date
Current_Index_Value	Current_Read_Date	Volume_Flow	Average_Heating_Value
Pressure_Correction_Factor	Consumed_Energy	Type_of_Read	Estimation_Substitution_Type
Estimation_Substitution_Reason_Code	Meter_Status	Next_Scheduled_Read_Date	Hi_Low_Failure
Meter_Capacity_Failure	Adjustment_Reason_Code	Energy_Calculation_Date_Stamp	Energy_Calculation_Time_Stamp

2. The aseXML documentation for element ase:CSVIntervalData is:
 - Purpose - Deliver interval meter data.
 - Detail - The following column headings will be employed in the default order as listed for each energy market.

NEM

Heading	Description
NMI	10 characters
Suffix	2 characters
MDPVersionDate	YYYYMMDDHHMMSS
SettlementDate	YYYYMMDD
Status	48 characters, 1 per interval, A or E
Period01	in kiloWattHours, no leading/trailing zeros
Period02	in kiloWattHours, no leading/trailing zeros
Period48	in kiloWattHours, no leading/trailing zeros.

B2B ELECTRICITY

Contains embedded data in CSV format for interval meters. This is the standard file format for interval meter data defined in a valid MDFF.

3. The aseXML documentation for element ase:CSVProfileData is:
 - Purpose - Deliver profile shape data.
 - Detail - The following column headings will be employed in the default order listed for each energy market.

NEM

Heading	Description
ProfileName	as per MDM
MDPVersionDate	YYYYMMDDHHMMSS
SettlementDate	YYYYMMDD
Period01	in kiloWattHours, no leading/trailing zeros
Period02	in kiloWattHours, no leading/trailing zeros
Period48	in kiloWattHours, no leading/trailing zeros

5.115Type ase:MeterDataValidations (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterDataValidations is:

- MSATS Data Model Column - DataValidations

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterDataValidations	maxLength value="50"	xsd:string

5.116Type ase:MeterDataVerifyRequest (complex)

The aseXML documentation for type ase:MeterDataVerifyRequest is:

- Schema - MeterDataManagement
- aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:MeterDataVerifyRequest are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r9— <i>Type ase:ReleaseIdentifier</i> (string with pattern) (§5.183 on page 137)
VerifyRequestData		(<i>abstract</i>) <i>Type ase:NMITransactionBase</i> (complex) (§5.165 on page 130)

5.117 Type ase:MeterDemand (integer, 8 digits)

The aseXML documentation for type ase:MeterDemand is:

- MSATS Data Model Column - Demand1, Demand2.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterDemand	totalDigits value="8"	xsd:integer

5.118 Type ase:MeterDialFormat (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterDialFormat is:

- MSATS Data Model Column - DialFormat

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterDialFormat	totalDigits value="4" fractionDigits value="2" minInclusive value="0" maxInclusive value="99.99"	xsd:decimal

5.119 Type ase:MeterEstimationInstructions (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterEstimationInstructions is:

- MSATS Data Model Column - EstInstruct

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterEstimationInstructions	maxLength value="50"	xsd:string

5.120 Type ase:MeterHazard (string ≤ 12 chars.)

The aseXML documentation for type ase:MeterHazard is:

- MSATS Data Model Column – MeterHazard.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterHazard	maxLength value="12"	xsd:string

5.121 Type ase:MeteringType (enumerated list)

Type ase:MeteringType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Flat Rate.	Two Rate.	Time Of Use.	CT Meter.	Other.
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5.122 Type ase:MeterInstallationTypeCode (string ≤ 8 chars.)

The aseXML documentation for type ase:MeterInstallationTypeCode is:

- MSATS Data Model Column – MeterInstallCode.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterInstallationTypeCode	maxLength value="8"	xsd:string

See also *Type ase:MeterInstallationTypeDescription (string ≤ 50 chars.)* (§5.123 below).

5.123 Type ase:MeterInstallationTypeDescription (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterInstallationTypeDescription is:

- Purpose - Describe installation type codes.
- MSATS Data Model Column – MeterInstallDesc.
- Detail - The description is intended to assist in identification of the correct code. The mapping between codes and descriptions will be provided to participants via the Table Replication transaction exchanges.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterInstallationTypeDescription	maxLength value="50"	xsd:string

5.124 Type ase:MeterLocation (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterLocation is:

- MSATS Data Model Column – MeterLocation.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterLocation	maxLength value="50"	xsd:string

5.125 Type ase:MeterManufacturer (string ≤ 15 chars.)

The aseXML documentation for type ase:MeterManufacturer is:

- MSATS Data Model Column – MeterManufacturer.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterManufacturer	maxLength value="15"	xsd:string

5.126 Type ase:MeterMeasurementType (string ≤ 4 chars.)

The aseXML documentation for type ase:MeterMeasurementType is:

- MSATS Data Model Column – MeasurementType.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterMeasurementType	maxLength value="4"	xsd:string

5.127 Type ase:MeterModel (string ≤ 12 chars.)

The aseXML documentation for type ase:MeterModel is:

- MSATS Data Model Column – MeterModel.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterModel	maxLength value="12"	xsd:string

5.128 Type ase:MeterMultiplier (decimal)

The aseXML documentation for type ase:MeterMultiplier is:

- MSATS Data Model Column – Multiplier.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterMultiplier		xsd:decimal

5.129 Type ase:MeterNetworkAdditionalInformation (string)

The aseXML documentation for type ase:MeterNetworkAdditionalInformation is:

- MSATS Data Model Column – NTAddInfo.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterNetworkAdditionalInformation		xsd:string

5.130 Type ase:MeterPassword (string ≤ 20 chars.)

The aseXML documentation for type ase:MeterPassword is:

- MSATS Data Model Column – Password.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterPassword	maxLength value="20"	xsd:string

5.131 Type ase:MeterPoint (string ≤ 2 chars.)

The aseXML documentation for type ase:MeterPoint is:

- MSATS Data Model Column – MeterPoint.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterPoint	maxLength value="2"	xsd:string

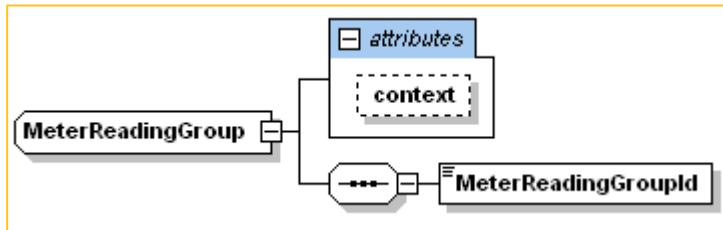
5.132 Type ase:MeterProgram (string ≤ 30 chars.)

The aseXML documentation for type ase:MeterProgram is:

- MSATS Data Model Column – MeterProgram.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterProgram	maxLength value="30"	xsd:string

5.133 Type ase:MeterReadingGroup (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:MeterReadingGroup are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@context	use="optional"	Type ase:MeterReadingGroupType (enumerated) (§5.135 below)
MeterReadingGroupId		Type ase:MeterReadingGroupId (string, ≥ 1 char.) (§5.134 below)

5.134 Type ase:MeterReadingGroupId (string, ≥ 1 char.)

The aseXML documentation for type ase:MeterReadingGroupId is:

This element is used to define the ID associated with the Meter Reading Group Type.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterReadingGroupId	minLength value="1" whiteSpace value="collapse"	xsd:string

5.135 Type ase:MeterReadingGroupType (enumerated)

The aseXML documentation for type ase:MeterReadingGroupType is:

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

Type ase:MeterReadingGroupType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

NMI.	Site.	Route.
------	-------	--------

5.136 Type ase:MeterReadTypeCode (string ≤ 4 chars.)

The aseXML documentation for type ase:MeterReadTypeCode is:

- MSATS Data Model Column – MeterReadType.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterReadTypeCode	maxLength value="4"	xsd:string

5.137 Type ase:MeterRegisterIdentifier (string ≤ 10 chars.)

The aseXML documentation for type ase:MeterRegisterIdentifier is:

- Purpose - Identifies a register within a meter.
- MSATS Data Model Column – RegisterId.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterRegisterIdentifier	maxLength value="10"	xsd:string

5.138 Type ase:MeterRegisterStatusCode (enumerated)

The aseXML documentation for type ase:MeterRegisterStatusCode is:

- MSATS Data Model Column – RegisterIdStatus.

Type ase:MeterRegisterStatusCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

C.	R.
----	----

5.139 Type ase:MeterRemotePhoneNumber (string ≤ 12 chars.)

The aseXML documentation for type ase:MeterRemotePhoneNumber is:

- MSATS Data Model Column – RemotePhoneNumber.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterRemotePhoneNumber	maxLength value="12"	xsd:string

5.140 Type ase:MeterRoute (string ≤ 12 chars.)

The aseXML documentation for type ase:MeterRoute is:

- MSATS Data Model Column – MeterRoute.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterRoute	maxLength value="12"	xsd:string

5.141 Type ase:MeterSerialNumber (string ≤ 12 chars.)

The aseXML documentation for type ase:MeterSerialNumber is:

- MSATS Data Model Column – MeterSerial.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterSerialNumber	maxLength value="12"	xsd:string

5.142 Type ase:MeterStatusCode (enumerated list)

The aseXML documentation for type ase:MeterStatusCode is:

- Purpose - Status code of Meter Register Data.
- MSATS Data Model Column – MeterStatus.

Type ase:MeterStatusCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

C.	R.
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5.143 Type ase:MeterTestCalibrationProgram (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterTestCalibrationProgram is:

- MSATS Data Model Column – TestCalibProgram.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTestCalibrationProgram	maxLength value="50"	xsd:string

5.144 Type ase:MeterTestPerformedBy (string ≤ 20 chars.)

The aseXML documentation for type ase:MeterTestPerformedBy is:

- MSATS Data Model Column – TestPerformedBy.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTestPerformedBy	maxLength value="20"	xsd:string

5.145 Type ase:MeterTestResultAccuracy (decimal, format 999.99999)

The aseXML documentation for type ase:MeterTestResultAccuracy is:

- MSATS Data Model Column – TestResultAccuracy.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTestResultAccuracy	totalDigits value="8" fractionDigits value="5"	xsd:decimal

5.146 Type ase:MeterTestResultNotes (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterTestResultNotes is:

- MSATS Data Model Column – TestResultNotes.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTestResultNotes	maxLength value="50"	xsd:string

5.147 Type ase:MeterTimeOfDay (string ≤ 10 chars.)

The aseXML documentation for type ase:MeterTimeOfDay is:

- MSATS Data Model Column – TestResultNotes.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTimeOfDay	maxLength value="10"	xsd:string

5.148 Type ase:MeterTransformerLocation (string ≤ 30 chars.)

The aseXML documentation for type ase:MeterTransformerLocation is:

- MSATS Data Model Column – TransformerLocation.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTransformerLocation	maxLength value="30"	xsd:string

5.149 Type ase:MeterTransformerRatio (string ≤ 20 chars.)

The aseXML documentation for type ase:MeterTransformerRatio is:

- MSATS Data Model Column – TransformerRatio.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTransformerRatio	maxLength value="20"	xsd:string

5.150 Type ase:MeterTransformerType (string ≤ 20 chars.)

The aseXML documentation for type ase:MeterTransformerType is:

- MSATS Data Model Column – TransformerType.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterTransformerType	maxLength value="20"	xsd:string

5.151 Type ase:MeterUnitOfMeasure (string ≤ 5 chars.)

The aseXML documentation for type ase:MeterUnitOfMeasure is:

- MSATS Data Model Column – UnitOfMeasure.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterUnitOfMeasure	maxLength value="5"	xsd:string

5.152 Type ase:MeterUse (string ≤ 10 chars.)

The aseXML documentation for type ase:MeterUse is:

- MSATS Data Model Column – MeterUse.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterUse	maxLength value="10"	xsd:string

5.153 Type ase:MeterUserAccessRights (string ≤ 50 chars.)

The aseXML documentation for type ase:MeterUserAccessRights is:

- MSATS Data Model Column – UserAccessRights.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:MeterUserAccessRights	maxLength value="50"	xsd:string

5.154 Type ase:MethodSent (enumerated list)

Type ase:MethodSent has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Faxed.	Email.	Online.	OnSite.
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5.155 Type ase:MovementType (enumerated list)

The aseXML documentation for type ase:MovementType is:

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

Type ase:MovementType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Update.	Reconciliation.	Site Vacant.
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5.156 Type ase:NetworkTariffCode (string ≤ 10 chars.)

The aseXML documentation for type ase:NetworkTariffCode is:

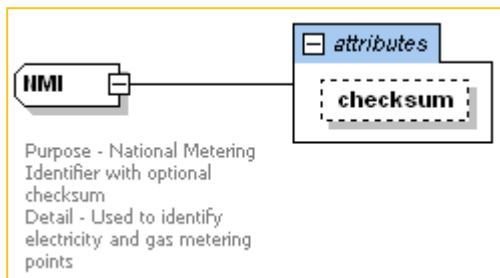
- Purpose - Identifies an LNSP specific network tariff.
- MSATS Data Model Column – NetworkTariffCode.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NetworkTariffCode	maxLength value="10"	xsd:string

5.157 Type ase:NMI (complex)

The aseXML documentation for type ase:NMI is:

- Purpose - National Metering Identifier with optional checksum.
- Detail - Used to identify electricity and gas metering points.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:NMI:

XPath to aseXML node	aseXML node restrictions	aseXML type
@checksum	use="optional"	Type ase:NMIChecksum (integer, 0–9) (§5.159 on page 128)
element using the type ase:NMI		Type ase:NMIBase (string ≤ 10 chars.) (§5.158 below)

5.158 Type ase:NMIBase (string ≤ 10 chars.)

The aseXML documentation for type ase:NMIBase is:

- Purpose - Helper type to assist in the definition of the NMI type.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NMIBase	maxLength value="10"	xsd:string

5.159 Type ase:NMIChecksum (integer, 0–9)

The aseXML documentation for type ase:NMIChecksum is:

- Purpose - Helper type to assist in the definition of the NMI type.
- Detail - The checksum is a single numeric digit.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NMIChecksum	maxLength value="10"	xsd:string

5.160 Type ase:NMIClassificationCode (string ≤ 8 chars.)

The aseXML documentation for type ase:NMIClassificationCode is:

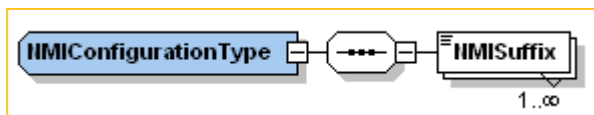
- Purpose - Identify the broad class to which the NMI belongs.
- MSATS Data Model Column – NMIClassCode.
- Detail - NMI classification often forms the basis for jurisdictional rules.
- MSATS Data Model Column – JurisdictionCode.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NMIClassificationCode	maxLength value="8"	xsd:string

5.161 Type ase:NMIConfigurationType (complex)

The aseXML documentation for type ase:NMIConfigurationCode is:

- Purpose - Identify the broad class to which the NMI belongs.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ElectricityVerifyMeterRequestData are:

XPath to aseXML node	aseXML node restrictions	aseXML type
NMISuffix	maxOccurs="unbounded"	Type ase:NMIDataStreamSuffix (string = 2 chars.) (§5.162 on page 129)

5.162 Type ase:NMIDataStreamSuffix (string = 2 chars.)

The aseXML documentation for type ase:NMIDataStreamSuffix is:

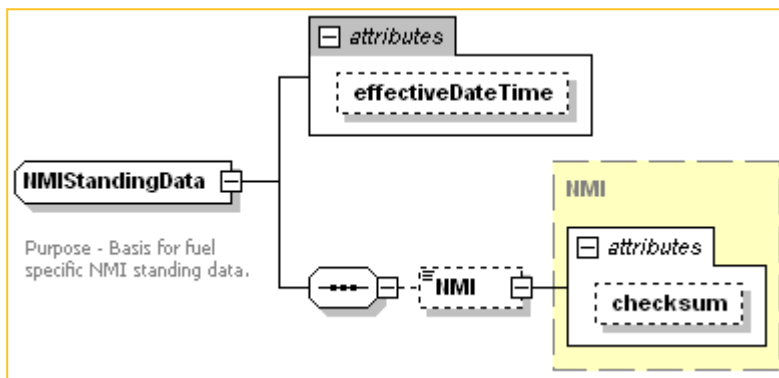
- Purpose - Identify a data stream associated with a NMI.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NMIDataStreamSuffix	length value="2"	xsd:string

5.163 (abstract) Type ase:NMIStandingData (complex)

The aseXML documentation for type ase:NMIStandingData is:

- Purpose - Basis for fuel specific NMI standing data.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:NMIStandingData:

XPath to aseXML node	aseXML node restrictions	aseXML type
@effectiveDateTime	use="optional"	xsd:dateTime
NMI	minOccurs="0"	Type ase:NMI (complex) (§5.157 on page 127)

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

5.164 Type ase:NMIStatusCode (string = 1 char.)

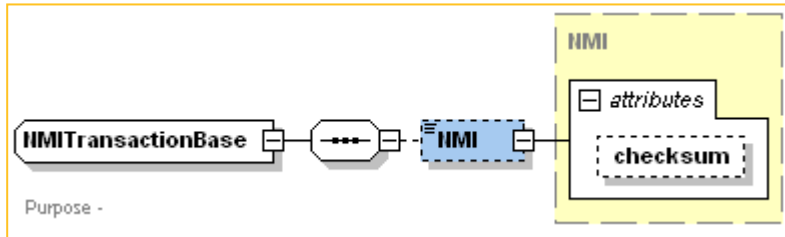
The aseXML documentation for type ase:NMIStatusCode is:

- Purpose - Status code of portions of NMI Standing Data.
- MSATS Data Model Column – NMIStatusCode.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NMIStatusCode	length value="1"	xsd:string

5.165(abstract) Type ase:NMITransactionBase (complex)

The aseXML documentation for type ase:NMITransactionBase is:



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:NMITransactionBase:

XPath to aseXML node	aseXML node restrictions	aseXML type
NMI	minOccurs="0"	Type ase:NMI (complex) (§5.157 on page 127)

The type ase:NMITransactionBase is abstract, so elements using this type have another aseXML type (either within the aseXML schema or explicitly in the aseXML file using an xsi:type attribute).

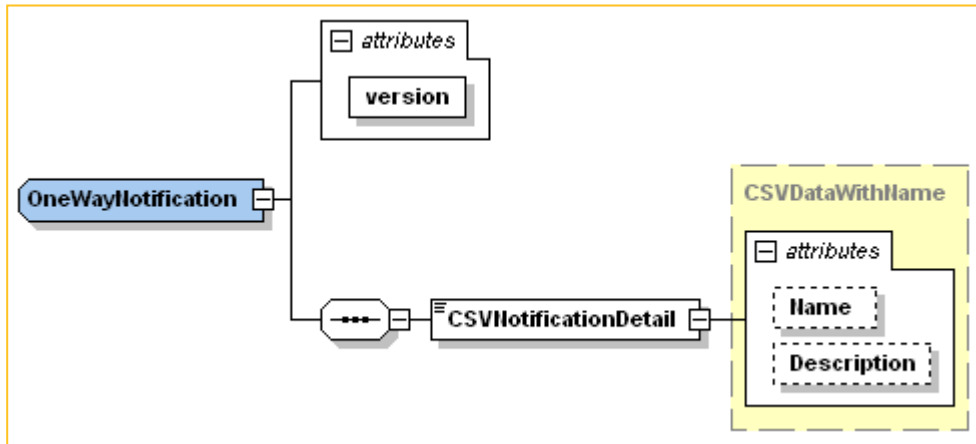
5.166 Type ase:NonZeroLengthString (string >= 1 char.)

The aseXML documentation for type ase:NonZeroLengthString is:

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

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:NonZeroLengthString	minLength value="1", whiteSpace value="collapse"	xsd:string

5.167 Type ase:OneWayNotification (complex)



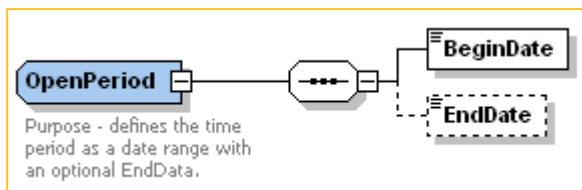
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:OneWayNotification are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@version	use="required"	r25—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
CSVNotificationDetail		Type ase:CSVDataWithName (complex) (§5.44 on page 76)—xsd:string

5.168 Type ase:OpenPeriod (complex)

The aseXML documentation for type ase:OpenPeriod is:

- Purpose - defines the time period as a date range with an optional EndData.



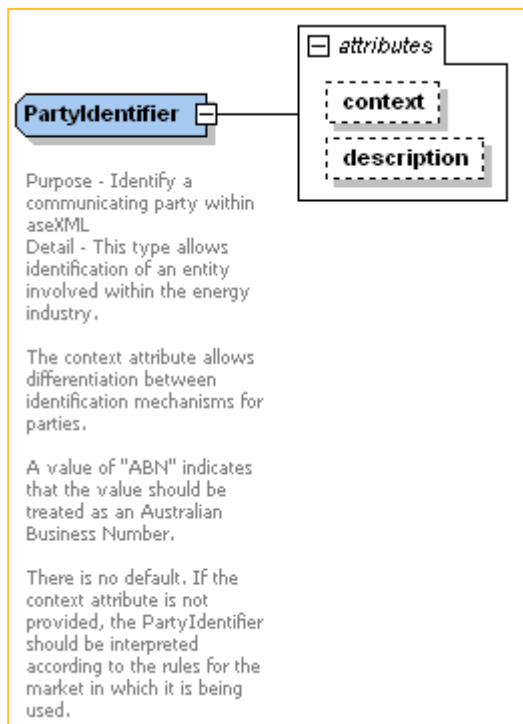
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:OpenPeriod are:

XPath to aseXML node	aseXML node restrictions	aseXML type
BeginDate		xsd:date
EndDate	minOccurs="0"	xsd:date

5.169 Type ase:PartyIdentifier (complex)

The aseXML documentation for type ase:PartyIdentifier is:

- Purpose - Identify a communicating party within aseXML.
- Detail - This type allows identification of an entity involved within the energy industry.
- The context attribute allows differentiation between identification mechanisms for parties.
- A value of "ABN" indicates that the value should be treated as an Australian Business Number.
- There is no default. If the context attribute is not provided, the PartyIdentifier should be interpreted according to the rules for the market in which it is being used.



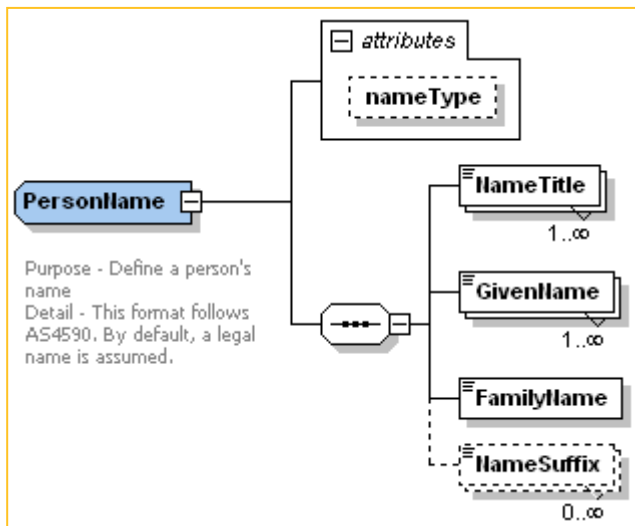
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:PartyIdentifier are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@context	enumeration value="ABN"	xsd:string
@description		xsd:string
element using the type ase:PartyIdentifier		xsd:string

5.170 Type ase:PersonName (complex)

The aseXML documentation for type ase:PersonName is:

- Purpose - Define a person's name.
- Detail - This format follows AS4590. By default, a legal name is assumed.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:PersonName are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@nameType	default="LGL"	Type ase:PersonNameType (enumerated list) (§5.175 on page 134)
FamilyName		Type ase:PersonNameFamily (string ≤ 40 chars.) (§5.171 below)
GivenName	maxOccurs="unbounded"	Type ase:PersonNameGiven (string ≤ 40 chars.) (§5.172 on page 134)
NameSuffix	minOccurs="0" maxOccurs="unbounded"	Type ase:PersonNameSuffix (string ≤ 12 chars.) (§5.173 en page 134)
NameTitle	maxOccurs="unbounded"	Type ase:PersonNameTitle (string ≤ 12 chars.) (§5.174 on page 134)

5.171 Type ase:PersonNameFamily (string ≤ 40 chars.)

The aseXML documentation for type ase:PersonNameFamily is:

- Purpose - Define a person's family name as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:PersonNameFamily	maxLength value="40"	xsd:string

5.172 Type ase:PersonNameGiven (string ≤ 40 chars.)

The aseXML documentation for type ase:PersonNameGiven is:

- Purpose - Define a person's given name as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:PersonNameGiven	maxLength value="40"	xsd:string

5.173 Type ase:PersonNameSuffix (string ≤ 12 chars.)

The aseXML documentation for type ase:PersonNameSuffix is:

- Purpose - Define a person's name suffix as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:PersonNameSuffix	maxLength value="12"	xsd:string

5.174 Type ase:PersonNameTitle (string ≤ 12 chars.)

The aseXML documentation for type ase:PersonNameTitle is:

- Purpose - Define a person's title as per Australian Standard AS4590.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:PersonNameTitle	maxLength value="12"	xsd:string

5.175 Type ase:PersonNameType (enumerated list)

The aseXML documentation for type ase:PersonName is:

- Purpose - Define the types of people's names as per Australian Standard AS4590.

Type ase:PersonNameType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

LGL.	MDN.	BTH.	TRB.
PRF.	AKA.	XFR.	STG.

5.176 Type ase:PoleNumber (string 1-40 chars.)

The aseXML documentation for type ase:PoleNumber is:

- This information is used to help find remote meters that may not be easily identified by address. Often it is easier to find the site via reference to a network pole number (generally in sequence on a feeder). This is required in standing data as the franchise market retailer still carries responsibility for performing site activities for some areas of the network.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:PoleNumber	maxLength value="40" minLength value="1" whiteSpace value="collapse"	xsd:string

5.177 Type ase:Priority (enumerated)

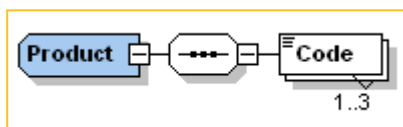
The aseXML documentation for type ase:Priority is:

- Purpose - Priority indication.
- Detail - Note that these enumerations are case sensitive.

Type ase:Priority has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

High.	Medium.	Low.
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5.178 Type ase:Product (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Product are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Code	maxLength value="10"	xsd:string

5.179 Type ase:ProfileName (string ≤ 10 chars.)

The aseXML documentation for type ase:ProfileName is:

- Purpose - Identify a profile.
- MSATS Data Model Column – ProfileNameID.
- Detail - Profiles are applied to consumption meter reads to massage them into a form suitable for settlement of a market based on shorter intervals than provided by the meter read cycle.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:ProfileName	maxLength value="10"	xsd:string

5.180 Type ase:RebateType (enumerated list)

The aseXML documentation for type ase:RebateType is:

- Purpose - Defines the rebate type for the concession details.

Type ase:RebateType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Pension Card.	Health Care Card.	Health Benefit Card.	Veteran Affairs Card.
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5.181 Type ase:ReceiptIdentifier (string, 1-36 chars.)

The aseXML documentation for type ase:ReceiptIdentifier is:

- Purpose - Provide a unique identifier to acknowledge a message or transaction.
- Detail - A receipt identifier is generated by the receiver of an aseXML message or transaction. Its purpose is to provide the sender with a string that can be quoted when inquiring with regard to the progress of processing for a message or transaction. As implied by the name, it is the sender's guarantee that the receiver will process the message or transaction.
- Note that receipt identifiers do not have to be globally unique, only unique to a particular receiver. However, the length has been chosen such that UUIDs can be used as receipt identifiers if considered appropriate, guaranteeing global uniqueness.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:ReceiptIdentifier		Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155).

5.182 Type ase:RecordCount (integer, 10 significant digits)

The aseXML documentation for type ase:RecordCount is:

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

Type ase:RecordCount has an aseXML base of xsd:integer, restricted to a maximum of 10 significant digits (specifically, xsd:totalDigits value="10").

5.183 Type ase:ReleaseIdentifier (string with pattern)

The aseXML documentation for type ase:ReleaseIdentifier is:

- Purpose - Identify a release of aseXML.
- Details - Release identifiers are used extensively in aseXML to enable versioning of transactions.

Type ase:ReleaseIdentifier has an aseXML base of xsd:string, restricted to a pattern (specifically xsd:pattern value="r[0-9]*|r[0-9]*_[a-z][0-9]*").

5.184 Type ase:RequestReason (enumerated)

The aseXML documentation for type ase:RequestReason is:

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

Type ase:RequestReason has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

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

5.185 Type ase:ResponseType (enumerated)

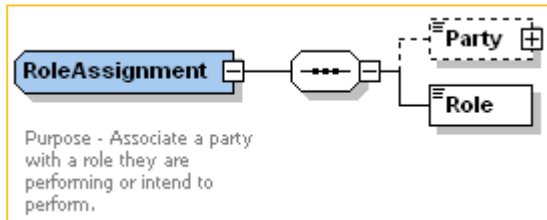
Type ase:ResponseType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Appointment.	Closure.	Initial.
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5.186 Type ase:RoleAssignment (complex)

The aseXML documentation for type ase:RoleAssignment is:

- Purpose - Associate a party with a role they are performing or intend to perform.



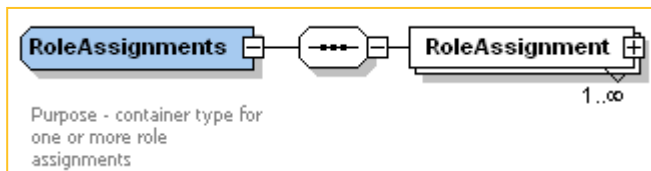
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:RoleAssignment are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Party	nillable="true" minOccurs="0"	Type ase:PartyIdentifier (complex) (§5.169 en page 132)
Role		Type ase:RoleIdentifier (string, ≤ 4 chars.) (§5.188 below)

5.187 Type ase:RoleAssignments (complex)

The aseXML documentation for type ase:RoleAssignments is:

- Purpose - container type for one or more role assignments.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:RoleAssignments are:

XPath to aseXML node	aseXML node restrictions	aseXML type
RoleAssignment	maxOccurs="unbounded"	Type ase:RoleAssignment (complex) (§5.186 above)

5.188 Type ase:RoleIdentifier (string, ≤ 4 chars.)

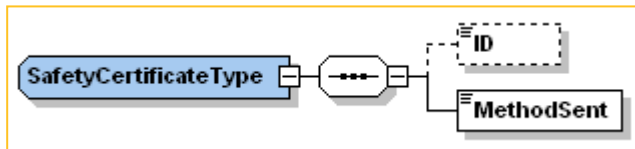
The aseXML documentation for type ase:RoleIdentifier is:

- Purpose - Identify the roles a party might perform.
- MSATS Data Model Column – RoleID.

- Detail - Roles often form the basis for jurisdictional rules.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:RoleIdentifier	maxLength value="4"	xsd:string

5.189 Type ase:SafetyCertificateType (complex)



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:SafetyCertificateType are:

XPath to aseXML node	aseXML node restrictions	aseXML type
ID	minOccurs="0"	Type ase:ShortUniqueIdentifier (string 1-15 chars.) (§5.202 on page 146)
MethodSent		Type ase:MethodSent (enumerated list) (§5.154 on page 126)

5.190 Type ase:SensitiveLoadType (enumerated list)

The aseXML documentation for type ase:SensitiveLoadType is:

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

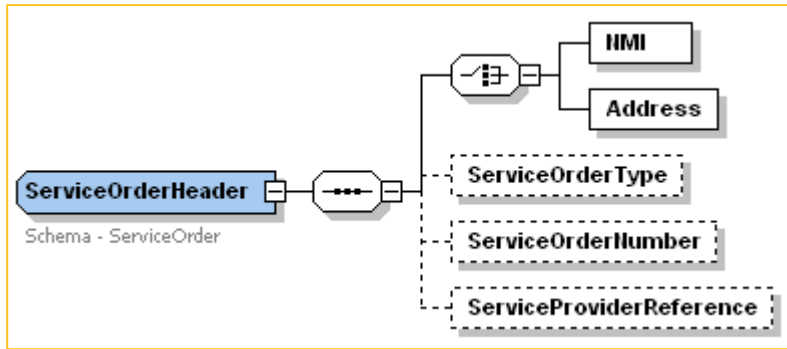
Type ase:SensitiveLoadType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Life Support.	Sensitive Load.	None.
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5.191 Type ase:ServiceOrderHeader (complex)

The aseXML documentation for type ase:ServiceOrderHeader is:

- Schema - ServiceOrder



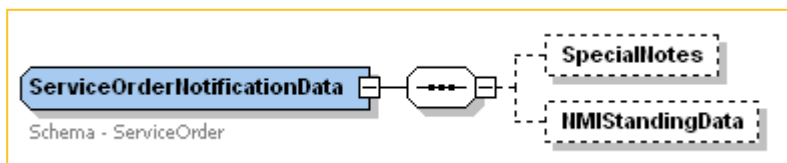
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type `ase:ServiceOrderHeader` are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Address		Type <code>ase:Address</code> (complex) (§5.4 on page 56)
NMI		Type <code>ase:NMI</code> (complex) (§5.157 on page 127)
ServiceOrderNumber	<code>minOccurs="0"</code>	Type <code>ase:UniqueIdentifier</code> (string, 1-36 chars.) (§5.217 on page 155)
ServiceOrderType	<code>minOccurs="0"</code>	(abstract) Type <code>ase:ServiceOrderTypeBase</code> (complex) (§5.199 on page 144)
ServiceProviderReference	<code>minOccurs="0"</code>	Type <code>ase:UniqueIdentifier</code> (string, 1-36 chars.) (§5.217 on page 155)

5.192(abstract) Type `ase:ServiceOrderNotificationData` (complex)

The aseXML documentation for type `ase:ServiceOrderNotificationData` is:

- Schema - ServiceOrder



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type `ase:ServiceOrderNotificationData` are:

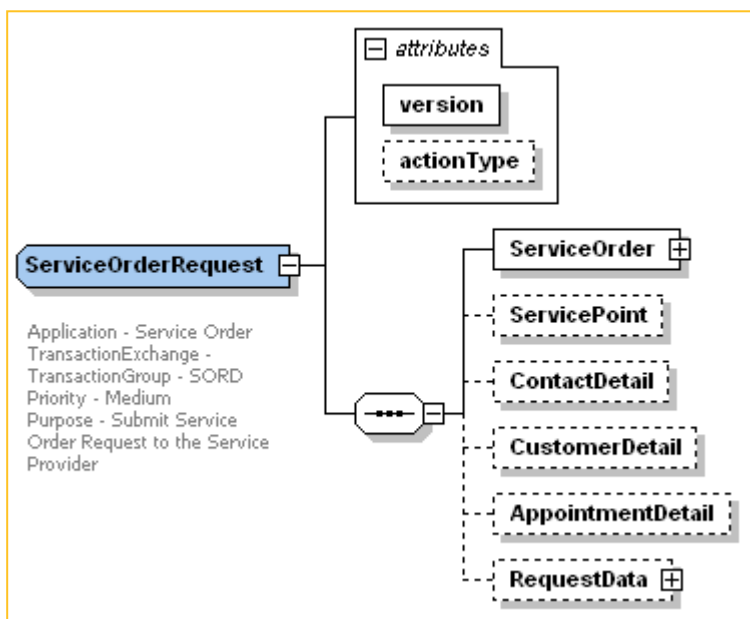
XPath to aseXML node	aseXML node restrictions	aseXML type
NMIStandingData	<code>minOccurs="0"</code>	(abstract) Type <code>ase:NMIStandingData</code> (complex) (§5.163 on page 129)
SpecialNotes	<code>minOccurs="0"</code>	Type <code>ase:SpecialComments</code> (complex) (§5.207 on page 148)

The type `ase:ServiceOrderNotificationData` is abstract, so elements using this type have another aseXML type (either within the aseXML schema or explicitly in the aseXML file using an `xsi:type` attribute).

5.193 Type ase:ServiceOrderRequest (complex)

The aseXML documentation for type ase:ServiceOrderRequest is:

- Application - Service Order
- TransactionExchange -
- TransactionGroup - SORD
- Priority - Medium
- Purpose - Submit Service Order Request to the Service Provider.



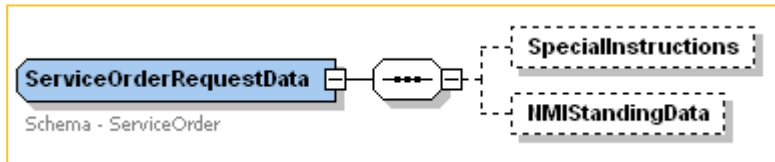
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ServiceOrderRequest are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@actionType	default="New"	Type ase:ActionType (enumerated list) (§5.3 on page 56)
@version	use="required"	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
AppointmentDetail	minOccurs="0"	Type ase:AppointmentDetail (complex) (§5.7 on page 58)
ContactDetail	minOccurs="0"	Type ase:CustomerDetail (complex) (§5.47 on page 77)
CustomerDetail	minOccurs="0"	Type ase:CustomerDetail (complex) (§5.47 on page 77)
RequestData	minOccurs="0"	(abstract) Type ase:ServiceOrderRequestData (complex) (§5.194 on page 142)
ServiceOrder		Type ase:ServiceOrderHeader (complex) (§5.191 on page 139)
ServicePoint	minOccurs="0"	Type ase:ServicePoint (complex) (§5.200 on page 145)

5.194(abstract) Type ase:ServiceOrderRequestData (complex)

The aseXML documentation for type ase:ServiceOrderRequestData is:

- Schema - ServiceOrder



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ServiceOrderRequestData are:

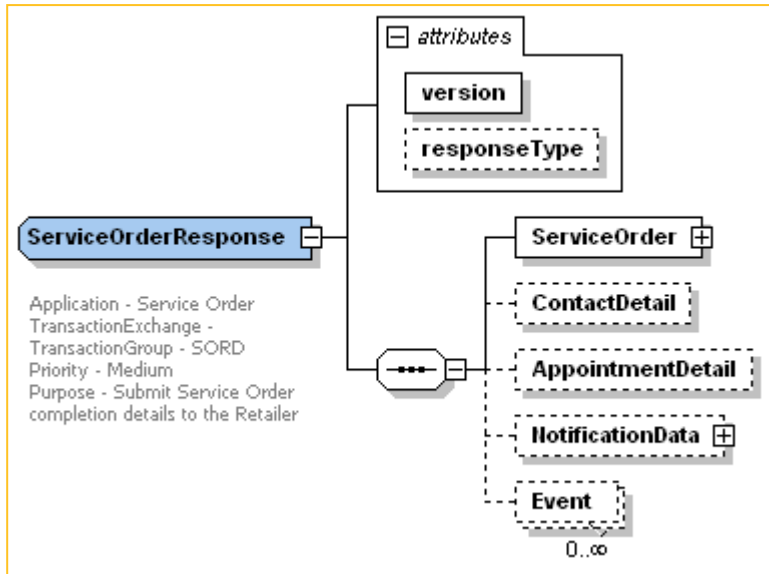
XPath to aseXML node	aseXML node restrictions	aseXML type
NMISStandingData	minOccurs="0"	(abstract) Type ase:NMISStandingData (complex) (§5.163 on page 129)
SpecialInstructions	minOccurs="0"	Type ase:SpecialComments (complex) (§5.207 on page 148)

The type ase:ServiceOrderRequestData is abstract, so elements using this type have another aseXML type (either within the aseXML schema or explicitly in the aseXML file using an xsi:type attribute).

5.195 Type ase:ServiceOrderResponse (complex)

The aseXML documentation for type ase:ServiceOrderResponse is:

- Application - Service Order
- TransactionExchange -
- TransactionGroup - SORD
- Priority - Medium
- Purpose - Submit Service Order completion details to the Retailer.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ServiceOrderResponse are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@responseType	default="Closure"	Type ase:ResponseType (enumerated) (§5.185 on page 137)
@version	use="required"	r17—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
AppointmentDetail	minOccurs="0"	Type ase:AppointmentDetail (complex) (§5.7 on page 58)
ContactDetail	minOccurs="0"	Type ase:CustomerDetail (complex) (§5.47 on page 77)
Event	minOccurs="0" maxOccurs="unbounded"	Type ase:Event (complex) (§5.77 on page 98)
NotificationData	minOccurs="0"	(abstract) Type ase:ServiceOrderNotificationData (complex) (§5.192 on page 140)
ServiceOrder		Type ase:ServiceOrderHeader (complex) (§5.191 on page 139)

5.196 Type ase:ServiceOrderStatus (enumerated list)

The aseXML documentation for type ase:ServiceOrderStatus is:

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

Type ase:ServiceOrderStatus has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Completed.	Partially Completed.	Not Completed.
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5.197 Type ase:ServiceOrderSubType (enumerated list)

The aseXML documentation for type ase:ServiceOrderSubType is:

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

Type ase:ServiceOrderSubType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Temporary.	Temporary in Permanent.	Permanent.	After Disconnection For Non-Payment.	Sticker Removal.
Retrospective Move-in.	New Reading Required.	Warning.	Remove Fuse.	Remove Fuse (Non-Payment).
Pillar-Box Pit Or Pole-Top.	Pillar-Box Pit Or Pole-Top (Non-Payment).	Sticker.	Install Hot Water.	Install Controlled Load.
Move Meter.	Install Meter.	Remove Meter.	Exchange Meter.	Check Read.
Final Read.	Change Controlled Load.	Change Timeswitch.	Change Tariff.	Tamper.
Inspect.	Onsite Test.	Lab Test.	Meter Test.	

5.198 Type ase:ServiceOrderType (enumerated list)

The aseXML documentation for type ase:ServiceOrderType is:

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

Type ase:ServiceOrderType has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Allocate NMI.	New Connection.	Re-energisation.	De-energisation.	Special Read.
Adds And Alts.	Meter Reconfiguration.	Meter Investigation.	Supply Abolishment.	Miscellaneous.

5.199 (abstract) Type ase:ServiceOrderTypeBase (complex)

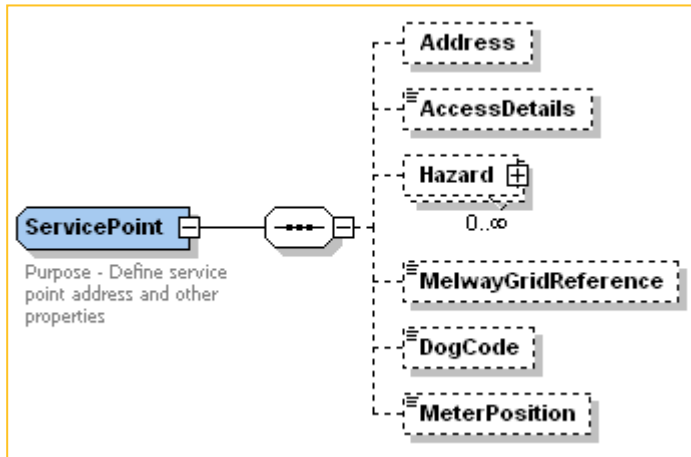
The aseXML documentation for type ase:ServiceOrderTypeBase is:

- Base type for type substitution in instance documents using xsi:type construct. Types currently based on this type are:
- ServiceOrderTypeGas-Gas schema.
- ServiceOrderTypeElectricity- Electricity schema.
- The type ase:ServiceOrderTypeBase is abstract, so elements using this type have another aseXML type (either within the aseXML schema or explicitly in the aseXML file using an xsi:type attribute).

5.200 Type ase:ServicePoint (complex)

The aseXML documentation for type ase:ServicePoint is:

- Purpose - Define service point address and other properties.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:ServicePoint are:

XPath to aseXML node	aseXML node restrictions	aseXML type
AccessDetails	minOccurs="0"	Type ase:AccessDetail (string ≤ 160 chars.) (§5.1 on page 55)
Address	minOccurs="0"	Type ase:Address (complex) (§5.4 on page 56)
DogCode	minOccurs="0"	Type ase:GasMeterDogCode (enumerated) (§5.86 on page 102)
Hazard	minOccurs="0" maxOccurs="unbounded"	Type ase:SiteHazard (complex) (§5.205 on page 147)
MelwayGridReference	minOccurs="0"	xsd:string, maxLength value="9"
MeterPosition	minOccurs="0"	Type ase:GasMeterPosition (enumerated) (§5.87 on page 102)

5.201 Type ase:ServiceTimeType (enumerated list)

The aseXML documentation for type ase:ServiceTimeType is:

- Service Order Service Time Type

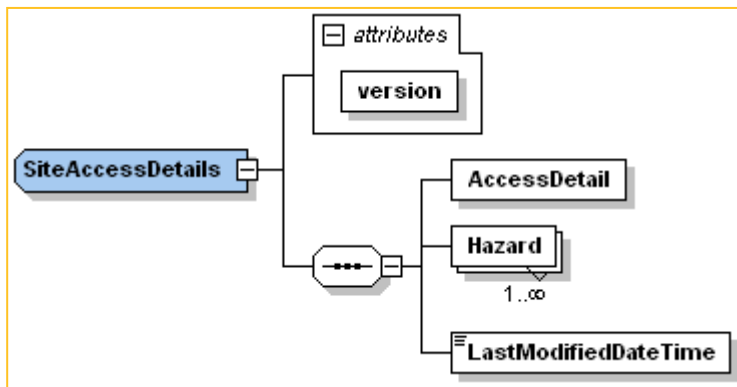
Type ase:SupplyPhase has an aseXML base of xsd:string, is restricted to a maximum length of 40 characters and is restricted to one of the following enumerated values:

Any Time.	Business Hours.	Non-Business Hours.
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5.202 Type ase:ShortUniqueIdentifier (string 1-15 chars.)

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:ShortUniqueIdentifier	minLength value="1", maxLength value="15"	xsd:string

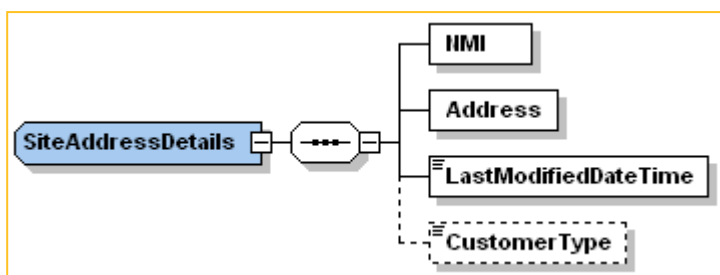
5.203 Type ase:SiteAccessDetails (complex)



Type ase:SiteAccessDetails extends the (abstract) Type ase:NMIStandingData (complex) (§5.163 on page 129). aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:SiteAccessDetails are:

XPath to aseXML node	aseXML node restrictions	aseXML type
@effectiveDateTime	use="optional"	xsd:dateTime
@version	use="required"	r19—Type ase:ReleaseIdentifier (string with pattern) (§5.183 on page 137)
AccessDetail		Type ase:AccessDetail (string ≤ 160 chars.) (§5.1 on page 55)
Hazard	maxOccurs="unbounded"	Type ase:SiteHazard (complex) (§5.205 on page 147)
LastModifiedDateTime		xsd:dateTime
NMI	minOccurs="0"	Type ase:NMI (complex) (§5.157 on page 127)

5.204 Type ase:SiteAddressDetails (complex)



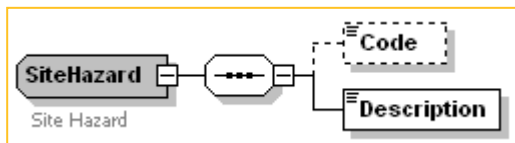
aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:SiteAddressDetails:

XPath to aseXML node	aseXML node restrictions	aseXML type
Address		Type ase:Address (complex) (§5.4 on page 56)
CustomerType	minOccurs="0"	Type ase:CustomerType (enumerated list) (§5.51 on page 80)
LastModifiedDateTime		xsd:dateTime
NMI		Type ase:NMI (complex) (§5.157 on page 127)

5.205 Type ase:SiteHazard (complex)

The aseXML documentation for type ase:SiteHazard is:

- Site Hazard



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:SiteHazard:

XPath to aseXML node	aseXML node restrictions	aseXML type
Code	minOccurs="0"	Type ase:HazardCode (string) (§5.88 on page 102)
Description		Type ase:HazardDescription (string ≤ 80 chars.) (§5.89 on page 103)

5.206 Type ase:SORDResponseCode (enumerated list)

The aseXML documentation for type ase:SORDResponseCode is:

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

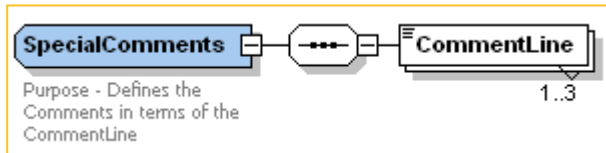
Type ase:SORDResponseCode has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

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 By Another Retailer.	Retailer Cancellation.	Sensitive Load.	Service Provider Cancellation.	Unable To Access.
Unknown Load.	Unsafe.			

5.207 Type ase:SpecialComments (complex)

The aseXML documentation for type ase:SpecialComments is:

- Purpose - Defines the Comments in terms of the CommentLine.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:SpecialComments:

XPath to aseXML node	aseXML node restrictions	aseXML type
CommentLine	maxOccurs="3"	Type ase:CommentLine (string ≤ 80 chars.) (§5.43 on page 76)

5.208 Type ase:SupplyPhase (enumerated list)

The aseXML documentation for type ase:SupplyPhase is:

- Purpose - Defines a list of valid supply phase.

Type ase:SupplyPhase has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

1-phase.	2-phase.	3-phase.	Other Multi-phase.
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5.209 Type ase:Transaction (complex)

The aseXML documentation for type ase:Transaction is:

- Purpose - Common container for all transactions.
- Detail - All transactions within aseXML are carried within this container. The transactionID and transactionDate are provided for all transactions. The initiatingTransactionID is only provided on response transactions and represents the transactionID of the initiating transaction.

aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Transaction:

XPath to aseXML node	aseXML node restrictions	aseXML type
@initiatingTransactionID	use="optional"	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153)
@transactionDate	use="required"	xsd:dateTime
@transactionID	use="required"	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153)
AccountCreationNotification		Unreferenced; see Note.
AllocationNotification		Unreferenced; see Note.
AmendMeterRouteDetails		Type ase:AmendMeterRouteDetails (complex) (§5.5 on page 56)
CATSBulkDataRequest		Unreferenced; see Note.
CATSBulkDataResponse		Unreferenced; see Note.
CATSChangeAlert		Unreferenced; see Note.
CATSChangeRequest		Unreferenced; see Note.
CATSChangeResponse		Unreferenced; see Note.
CATSChangeWithdrawal		Unreferenced; see Note.
CATSDataRequest		Unreferenced; see Note.
CATSNotification		Unreferenced; see Note.
CATSObjectionRequest		Unreferenced; see Note.
CATSObjectionResponse		Unreferenced; see Note.
CATSObjectionWithdrawal		Unreferenced; see Note.
CreditNotification		Unreferenced; see Note.
CurrentRetailerConfirmationRequest		Unreferenced; see Note.
CurrentRetailerConfirmationResponse		Unreferenced; see Note.
CustomerDetailsNotification		Type ase:CustomerDetailsNotification (complex) (§5.48 on page 78)
CustomerDetailsRequest)		Type ase:CustomerDetailsRequest (complex) (§5.49 on page 79)
DisputeNotification		Unreferenced; see Note.
DisputeResponse		Unreferenced; see Note.
FaultInformationRequest		Unreferenced; see Note.
FaultNotification		Unreferenced; see Note.
FaultOutageAdvice		Unreferenced; see Note.
FieldWorkNotification		Unreferenced; see Note.
GasMeterNotification		Unreferenced; see Note.
HSMMonitorDataRequest		Unreferenced; see Note.
HSMMonitorDataResponse		Unreferenced; see Note.
HSMMonitorsRequest		Unreferenced; see Note.
HSMMonitorsResponse		Unreferenced; see Note.
HSMTriggeredDataNotification		Unreferenced; see Note.
MeterDataHistoryRequest		Unreferenced; see Note.
MeterDataHistoryResponse		Unreferenced; see Note.
MeterDataMissingNotification		Type ase:MeterDataMissingNotification (complex) (§5.113 on page 112)
MeterDataNotification		Type ase:MeterDataNotification (complex) (§5.114 on page 113)
MeterDataResponse		Unreferenced; see Note.
MeterDataVerifyRequest		Type ase:MeterDataVerifyRequest (complex) (§5.116 on page 116)
MeterDataVerifyResponse		Unreferenced; see Note.
MeteredSupplyPointsCountUpdate		Unreferenced; see Note.
MeterReadingReferenceDataRequest		Unreferenced; see Note.
MeterReadingReferenceDataResponse		Unreferenced; see Note.
MeterReadInputNotification		Unreferenced; see Note.

XPath to aseXML node	aseXML node restrictions	aseXML type
NetworkDUoSBillingNotification		Unreferenced; see Note.
NetworkInvoiceNotification		Unreferenced; see Note.
NMIDiscoveryRequest		Unreferenced; see Note.
NMIDiscoveryResponse		Unreferenced; see Note.
NMIStandingDataRequest		Unreferenced; see Note.
NMIStandingDataResponse		Unreferenced; see Note.
NMIStandingDataUpdateNotification		Unreferenced; see Note.
NMIStandingDataUpdateResponse		Unreferenced; see Note.
NOSBookingInfoRequest		Unreferenced; see Note.
NOSBookingResponse		Unreferenced; see Note.
NOSBookingSubmission		Unreferenced; see Note.
NOSEquipmentInfoRequest		Unreferenced; see Note.
NOSEquipmentResponse		Unreferenced; see Note.
NOSEquipmentSubmission		Unreferenced; see Note.
NOSInfoResponse		Unreferenced; see Note.
OneWayNotification		<i>Type ase:OneWayNotification (complex)</i> §5.167 on page 131
ReconciliationNotification		Unreferenced; see Note.
RemittanceNotification		Unreferenced; see Note.
ReplicationNotification		Unreferenced; see Note.
ReplicationRequest		Unreferenced; see Note.
ReportRequest		Unreferenced; see Note.
ReportResponse		Unreferenced; see Note.
ServiceOrderRequest		<i>Type ase:ServiceOrderRequest (complex)</i> (§5.193 en page 141)
ServiceOrderResponse		<i>Type ase:ServiceOrderResponse (complex)</i> (§5.195 en page 142)
SettlementDataNotification		Unreferenced; see Note.
SpecialReadRequest		<i>Type ase:ServiceOrderRequest (complex)</i> (§5.193 en page 141)
SpecialReadResponse		<i>Type ase:ServiceOrderResponse (complex)</i> (§5.195 en page 142)
SwingServiceNotification		Unreferenced; see Note.
WholesaleInformationRequest		Unreferenced; see Note.
WholesaleInformationResponse		Unreferenced; see Note.
WholesaleRetrieveRequest		Unreferenced; see Note.
WholesaleRetrieveResponse		Unreferenced; see Note.
WholesaleSearchRequest		Unreferenced; see Note.
WholesaleSearchResponse		Unreferenced; see Note.
WholesaleSubmitRequest		Unreferenced; see Note.
WholesaleSubmitResponse		Unreferenced; see Note.

Note:

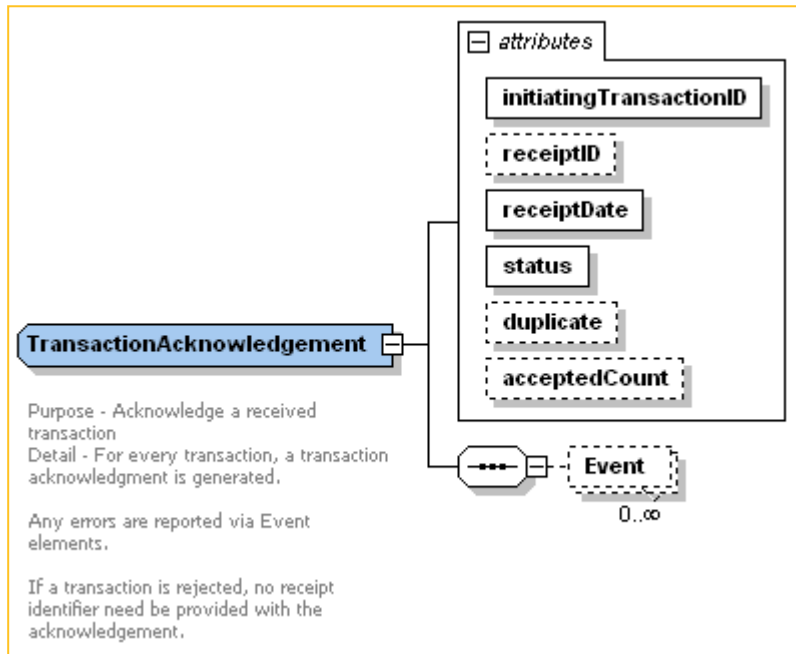
- No business data objects mentioned in the B2B Procedures refer to this transaction.

5.210 Type ase:TransactionAcknowledgement (complex)

The aseXML documentation for type ase:TransactionAcknowledgement is:

- Purpose - Acknowledge a received transaction.

- Detail - For every transaction, a transaction acknowledgment is generated.
- Any errors are reported via Event elements.
- If a transaction is rejected, no receipt identifier need be provided with the acknowledgement.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:TransactionAcknowledgement:

XPath to aseXML node	aseXML node restrictions	aseXML type
@acceptedCount	use="optional"	xsd:nonNegativeInteger
@duplicate	default="No"	Type ase:YesNo (enumerated list) (§5.219 on page 156)
@initiatingTransactionID	use="required"	Type ase:TransactionIdentifier (string, 1-36 chars.) (§5.212 on page 153)
@receiptDate	use="required"	xsd:dateTime
@receiptID	use="optional"	Type ase:ReceiptIdentifier (string, 1-36 chars.) (§5.181 on page 136)
@status	use="required"	Type ase:TransactionStatus (enumerated) (§5.215 on page 154)
Event	minOccurs="0" maxOccurs="unbounded"	Type ase:Event (complex) (§5.77 on page 98)

5.211 Type ase:TransactionGroup (enumerated)

The aseXML documentation for type ase:TransactionGroup is:

- Purpose - Provide the transaction group to which all the contained transactions or transaction acknowledgments belong.
- Detail - The target application is at liberty to reject any transactions within the message that do not belong to the stated TransactionGroup. Where only message acknowledgements are carried, a transaction group of "MSGX" should be used.

- The following groups are B2B process related:

Group	Description
FLTS	Faults and Outages
SORD	Service order, planned works
NETB	Network billing
MTRD	Meter data
CUST	Customer related
NOTF	Notifications (broadcast)
MKTW	Wholesale market operations
HSMD	High Speed Monitoring system
OWNP	Own Way Notification

Type ase:TransactionGroup has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

CATS.	MDMT.	MSGS.	NMID.	FLTS.
SORD.	NETB.	MTRD.	CUST.	NOTF.
SITE.	FLDW.	OUTG.	BAR.	NMIF.
MKTW.	HSMD.	OWNP.		

5.212Type ase:TransactionIdentifier (string, 1-36 chars.)

The aseXML documentation for type ase:TransactionIdentifier is:

- Purpose - Uniquely identify every transaction generated by the transaction sender.
- Detail - Note that transaction identifiers do not have to be globally unique, only unique to a particular sender. However, the length has been chosen such that UUIDs can be used as transaction identifiers if considered appropriate, guaranteeing global uniqueness.
- A transaction acknowledgement identifies which transaction it is acknowledging by providing the transaction identifier as an attribute.
- In addition to carrying its own unique identifier, a transaction generated in response to the initial transaction of a transaction exchange also carries the transaction identifier of the initial transaction. This allows the sender to determine the context in which the response transaction should be interpreted.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:TransactionIdentifier		Type ase:UniqueIdentifier (string, 1-36 chars.) (§5.217 on page 155)

5.213 Type ase:TransactionPriority (enumerated)

The aseXML documentation for type ase:TransactionPriority is:

- Purpose - Provide the processing priority desired by the sender.
- Detail - The sender can indicate their preference in terms of timeliness of processing for the payload. It is left to the discretion of the receiver to determine whether and how to honour the requested priority.

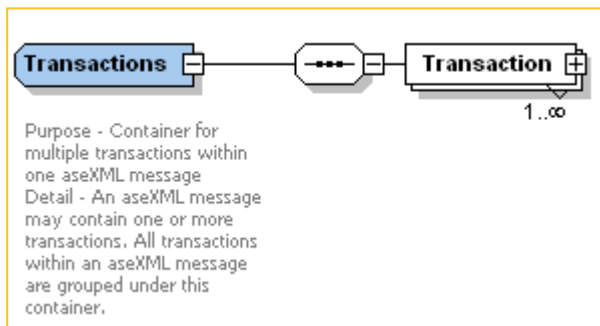
Type ase:TransactionPriority has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

High.	Medium.	Low.
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5.214 Type ase:Transactions (complex)

The aseXML documentation for type ase:Transactions is:

- Purpose - Container for multiple transactions within one aseXML message.
- Detail - An aseXML message may contain one or more transactions. All transactions within an aseXML message are grouped under this container.



aseXML items in alphabetical sequence of XPath, with each XPath relative to the element using the type ase:Transactions are:

XPath to aseXML node	aseXML node restrictions	aseXML type
Transactions	maxOccurs="unbounded"	type="Transaction"

5.215 Type ase:TransactionStatus (enumerated)

The aseXML documentation for type ase:TransactionStatus is:

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

Type ase:TransactionStatus has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

Accept.	Partial.	Reject.
---------	----------	---------

5.216 Type ase:TransmissionNodeIdentifier (string ≤ 4 chars.)

The aseXML documentation for type ase:TransmissionNodeIdentifier is:

- Purpose - Transmission node identifiers.
- MSATS Data Model Column – TNICode.
- Detail - Transmission nodes identify the points at which the intra-regional loss factors apply.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:TransmissionNodeIdentifier	maxLength value="4"	xsd:string

5.217 Type ase:UniquelIdentifier (string, 1-36 chars.)

The aseXML documentation for type ase:UniquelIdentifier is:

- Purpose - Uniquely identify the associated data element or attribute.
- Detail - Note that unique identifiers do not have to be globally unique, only unique to a particular sender. However, the length has been chosen such that UUIDs can be used as identifiers if considered appropriate, guaranteeing global uniqueness.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:UniquelIdentifier	minLength value="1", maxLength value="36"	xsd:string

5.218 Type ase:VoltageType (string 1-10 chars.)

The aseXML documentation for type ase:VoltageType is:

- Indicates whether the site is connected at High or Low voltage.

XPath to aseXML node	aseXML node restrictions	aseXML type
element using the type ase:VoltageType	maxLength value="10" minLength value="1" whiteSpace value="collapse"	xsd:string

5.219 Type ase:YesNo (enumerated list)

The aseXML documentation for type ase:YesNo is:

- Purpose - Yes/No indication.
- Detail - Note that these values are case sensitive.

Type ase:YesNo has an aseXML base of xsd:string and is restricted to one of the following enumerated values:

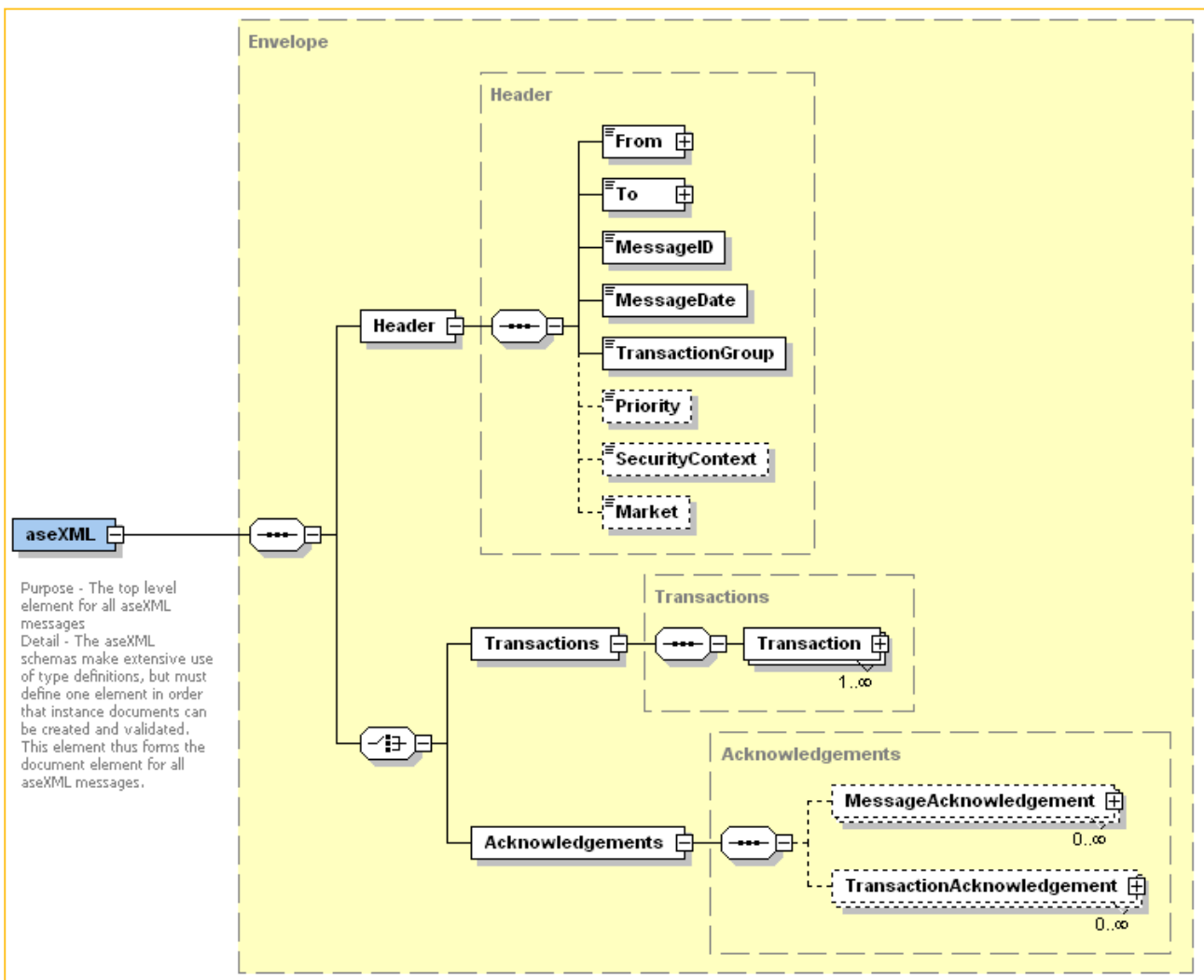
Yes.	No.
------	-----

6 aseXML message

“An aseXML message provides a standard envelope for the carriage of transactions or acknowledgements.” [Ga 1.7]

The aseXML documentation for ase:aseXML is:

- Purpose - The top level element for all aseXML messages.
- Detail - The aseXML schemas make extensive use of type definitions, but must define one element in order that instance documents can be created and validated. This element thus forms the document element for all aseXML messages.



In alphabetical sequence of business item, the following table provides the mapping to aseXML, with each XPath relative to ase:aseXML.

Business Item	XPath to aseXML node	aseXML type and restrictions
.	.	Type ase:Envelope (complex) (§5.76 en page 97)
Acknowledgements	ase:Acknowledgements	Type ase:Acknowledgements (complex) (§5.2 on page 55)
Header	ase:Header	Type ase:Header (complex) (§5.90 on page 103)
Transactions	ase:Transactions	Type ase:Transactions (complex) (§5.214 en page 154)

Business Item	XPath to aseXML node	aseXML type and restrictions
	Transactions/Transaction	Type ase:Transaction (complex) (§5.209 en page 148)
MessageDate	Header/MessageDate	xsd:dateTime
MessageDateTime	Header/MessageDate	xsd:dateTime
MessageID	Header/MessageID	Type ase:MessageIdentifier (string, 1-36 chars.) (§5.102 on page 109)
Priority	Header/Priority	Type ase:TransactionPriority (enumerated) (§5.213 on page 154), minOccurs="0"
TransactionGroup	Header/TransactionGroup	Type ase:TransactionGroup (enumerated) (§5.211 on page 152)