
Schema Change Request

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Change Type	Enhancements and Bug fixes
Title	B2B Electricity transactions
Date	
Prepared By	Nada Reinprecht
Priority	

<i>Notes</i>

Document Control

Version	Date	Author	Summary of Change
1.0	24 January 2005	Nada Reinprecht	Change proposal
1.1	9 February 2005	BIWG	Approval proposal
1.2	16 February 2005	Nada Reinprecht	Updated with outcomes from BIWG Update with outcomes of the ASWG meeting Formatting corrected Improved presentation
1.3	21 February 2005	Nada Reinprecht	Updated with the results of the ASWG workshop on Friday, 18 February.
1.4	22 February 2005	BIWG	BIWG comments
1.5	23 February 2005	Nada Reinprecht	Updated with outcomes of the BIWG meeting
1.6	23 February 2005	Nada Reinprecht	Add dependencies
1.7	03 March 2005	Nada Reinprecht	Updated with changes: <ul style="list-style-type: none"> • NMIWithChecksum replaced with NMI • NMIConfiguration model changed • Additional obsolete types and attributes removed • SafetyCertificate altered • CustomerDetailsNotification altered
1.8	8 March 2005	Darren Field	Peer review
1.9	22/3/2005	Darren Field	Peer review following update to BusinessName definitions. Dependency analysis completed.
2.0	23/3/2005	Darren Field	Removed space from end of enumeration for: <ul style="list-style-type: none"> • ElectricityServiceOrderType • SORDResponseCode Added note that NMIDiscoveryRequest has reverted to r4 equivalence Changed BusinessType type name to BusinessNameTypeCode and name of attribute to businessNameTypeCode Modified definition of NMIDiscoveryResponse and added note that this effectively reverts to r4 equivalence. Added enumeration to IndexInvestigationCode Accepted all changes to prepare for publish.

Document Status

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Glossary

Abbreviation	Description

1. Change Proposal

This Change Proposal contains the request for enhancements and bug fixes to the Business to Business Electricity transactions that are included in the aseXML schema version r14.

The enhancements to the transactions are the result of the changes made to the MSATS Procedures: B2B Procedures between the version used for the development of the aseXML r14 schema to **the Final Determination version of the B2B**. The bug fixes correct errors in the r14 version of the schema.

The MSATS Procedures: Business to Business Procedures considered in this document are as follows:

- Meter Data Process
- Service Order Process
- Customer & Site Details Notification Process

1.1. Description of the proposed change

The proposed changes are listed in the following table.

Table 1-1, Proposed Changes

Item#	Change Description	Change Type
Business Changes		
Service Order Process		
1	Remove <i>RetailerID</i> and <i>ProviderID</i> from the <i>ServiceOrderHeader</i> as they are contained in the aseXML message <i>Header</i> . [Refer 2.3.26]	Bug fix
2	Remove <i>NominatedResponsiblePerson</i> , <i>NominatedMeterProvider</i> and <i>DesiredNMIStatus</i> from the <i>ElectricityServiceOrderDetails</i> and replace them with the corresponding fields from the <i>ElectricityStandingData</i> . [Refer 2.3.11]	Enhancement
3	To support 'New Connection' <u>ServiceOrderRequest</u> ; Remove forced choice between <i>MeteringType</i> and <i>OffPeakRequirements</i> and between <i>MaximumDemand</i> and <i>NMIStandingData</i> in <i>ElectricityServiceOrderDetails</i> . [Refer 2.3.11]	Bug fix
4	Remove the <i>MeterInstallationTypeCode</i> element from <i>ElectricityServiceOrderDetails</i> and use <i>ElectricityStandingData</i> instead as it already contains <i>MeterInstallationTypeCode</i> . [Refer 2.3.11]	Bug fix
5	Add <i>SwitchingServiceRequired</i> element to the <i>ElectricityServiceOrderDetails_type</i> . [Refer 2.3.11]	Enhancement
6	Make <i>Product</i> container element mandatory in the <i>ElectricityServiceOrderNotificationData</i> type to reflect the business process. [Refer 2.3.11]	Bug fix

Item#	Change Description	Change Type
7	<p>Replace the <i>AddressWithStatus</i> with <i>Address</i> type as business requirements no longer exist for <i>AddressWithStatus</i>. [Refer 2.3.9, 2.3.26]</p> <p><i>AddressWithStatus</i> to be replaced with <i>Address</i> in the following types:</p> <ul style="list-style-type: none"> • <i>CustomerDetail</i> (<i>PostalAddress</i> element) • <i>ServicePoint</i> (<i>Address</i> element) • <i>ServiceOrderHeader</i> (<i>Address</i> element) <p><i>AustralianPhoneNumberWithStatus</i> to be removed from the schema as business requirements no longer exist for it.</p>	Enhancement
8	<p>Replace <i>AustralianAddress</i> type for <i>Address</i> element in <i>SiteAddressDetails</i> with <i>Address</i> to make it consistent with the address type elsewhere in the B2B transactions. [Refer: 2.3.9]</p>	Enhancement
9	<p><i>ServiceOrderType</i> is mandatory in the schema for the <u><i>ServiceOrderResponse</i></u> transaction. In the definition of the <u><i>ServiceOrderResponse</i></u> transaction in the B2B Procedures this element is not listed. Make the element optional in the Schema so it does not have to be provided in the Response. [Refer 2.3.26]</p> <p>The same issue is applicable for the Appointment Notification use of the <u><i>ServiceOrderResponse</i></u> transaction. [Refer 2.3.26]</p>	Bug fix
10	<p>Elements <i>ServiceTime</i> and <i>ConfirmedDe-energisation</i> exist in the MSATS Procedures: B2B Procedures: Service Order Processes but do not exist in the schema. Include these in the <i>ElectricityServiceOrderDetails</i> . Add <i>ConfirmedDe-energisation</i> as YES/NO. Add new type <i>ServiceTimeType</i> with enumerations: <i>ServiceTime</i>: ‘Any Time’, Business Hours’, ‘Non-Business hours’. [Refer 2.3.11]</p>	Enhancement
11	<p>Remove <i>SpecialReadReasonCode</i> from the <i>ElectricityServiceOrderType</i> and replace with the following enumeration list for <i>ServiceOrderType</i> = ‘Special Read’: Add <i>ServiceOrderSubType</i> values of : ‘Final Read’ and ‘Check Read’. [Refer 2.3.11]</p>	Enhancement
12	<p>Remove <i>MeterSerialNumber</i> from <i>ElectricityServiceOrderDetails</i> and provide through the <i>ElectricityStandingData</i> structure. <i>MeterSerialNumber</i> in <i>ElectricityServiceOrder</i> type is not required as it already exists in the <i>ElectricityStandingData</i>. If used from <i>ElectricityStandingData</i>, multiple <i>MeterSerialNumbers</i> can be provided so it will not be necessary to use <i>SpecialInstructions</i> (as currently in the schema). [Refer 2.3.11]</p>	Bug fix
13	<p>Add <i>ActionType</i> = ‘Replace’ for <u><i>ServiceOrderRequest</i></u> required. [Refer 2.3.26]</p>	Enhancement
14	<p><i>CustomerConsultationRequired</i> exists in the MSATS Procedures: B2B Procedures: Service Order Processes but not in the Schema. Add <i>CustomerConsultationRequired</i> to the <i>ElectricityServiceOrderDetails</i> type. [Refer 2.3.11]</p>	Enhancement
15	<p><i>ServicePoint</i> is not used in <u><i>ServiceOrderResponse</i></u>. Remove from the transaction in the Schema. [Refer 2.3.26]</p>	Bug fix

Item#	Change Description	Change Type
16	Change <i>CustomerDetail</i> element in <i>ServiceOrderResponse</i> type to <i>ContactDetail</i> . [Refer 2.3.26]	Bug fix
17	Rename <i>ServiceOrderType</i> element in <i>ElectricityServiceOrderType</i> to <i>WorkType</i> [Refer: 2.3.11]	Enhancement
18	Rename <i>ServiceOrderNotification</i> type to <i>ServiceOrderResponse</i> type to align it with the naming convention in the schema. [Refer 2.3.26, 2.3.28]	Enhancement
19	Remove <i>NMISTandingData</i> element from <i>ElectricityServiceOrderDetails</i> and place it to the <i>ServiceOrderRequestData</i> to align the <i>ServiceOrderRequestData</i> and <i>ServiceOrderNotificationData</i> structures. [Refer 2.3.26]	Enhancement
20	<i>ExceptionCode</i> element in <i>ElectricityServiceOrderNotificationData</i> type renamed to <i>ResponseCode</i> [Refer: 2.3.11]	Enhancement
Meter Data Process		
21	<i>EndReadDate</i> in both <u>ProvideMeterDataRequest</u> and <u>MeterDataVerifyRequest</u> transactions should be optional. To accommodate that create <i>PartialPeriod</i> which has <i>BeginDate</i> mandatory and <i>EndDate</i> optional. Refer [2.3.8 & 2.3.11]	Enhancement
22	Change <i>RequestPeriod</i> element in <i>ElectricityVerifyMeterRequestData</i> from optional to mandatory; Make <i>RequestPeriod</i> of type <i>PartialPeriod</i> [Refer 2.3.11]	Enhancement
23	Replace <i>StartDate/EndDate</i> structure in <i>ElectricityProvideMeterRequestData</i> with <i>RequestPeriod</i> . Make <i>RequestPeriod</i> of type <i>PartialPeriod</i> [Refer 2.3.11]	Enhancement
24	Remove <i>BlockNumber</i> and <i>LastBlockFlag</i> from the schema. They have been removed from the Meter Data procedures. [Refer 2.3.18]	Enhancement
25	<i>RequestID</i> is generated by the request transaction. When the response transaction refers to the request transaction that initiated the response, it uses an element that is also called <i>RequestID</i> . Use <i>transactionID</i> and <i>initiatingTransactionID</i> pair instead. Remove <i>RequestID</i> from the <i>MeterDataNotification</i> , <i>ElectricityProvideMeterDataRequest</i> , <i>ElectricityVerifyMeterDataRequest</i> . [Refer 2.3.18]	Enhancement
26	<i>NMIconfiguration</i> exists in the B2B Procedures, Meter Data Process (<u>MeterDataVerifyRequest</u>) but does not exist in the aseXML transaction. Include <i>NMIconfiguration</i> in the <u>MeterDataVerifyRequest</u> transaction. [Refer 2.3.11]	Enhancement
27	Add <i>ParticipantRole</i> to <u>MeterDataNotification</u> type . [Refer 2.3.18]	Enhancement
28	<i>InvestigationDescription</i> in <i>ElectricityVerifyMeterRequestData</i> should be mandatory. [Refer 2.3.11]	Enhancement
29	<i>Proposed</i> element should be removed from the <u>ElectricityVerifyMeterRequestData</u> . [Refer 2.3.11]	Enhancement

Item#	Change Description	Change Type
30	<i>Current</i> element is mandatory in the <i>ElectricityVerifyMeterRequestData</i> while it is not mandatory per business process requirements. Change <i>Current</i> to optional. [Refer 2.3.11]	Bug fix
31	All elements in <i>ElectricityMeterReadData</i> type should be changed from optional to mandatory per business requirements. [Refer 2.3.11]	Enhancement
32	Create new transaction <i>ProvideMeterDataRequest</i> [Refer: 2.3.18, 2.3.28] instead of using <i>MeterDataMissingNotification</i> to reflect the Provide Meter Data business process. . Other transaction names– align with Procedure names where practical	Bug fix
33	Remove <i>MeterConfigData</i> type [Refer 2.3.18], <i>MeterConfigNotification</i> type [2.3.18] and <i>MeterConfigNotification</i> transaction removed from the schema [2.3.28], as they are obsolete.	Enhancement
Customer & Site Details Notification Process		
34	Add ‘Site Vacant’ to the enumerated list of <i>MovementType</i> within <i>CustomerDetail</i> type Remove ‘Move In’ and ‘Move Out’ enumerations. [Refer 2.3.9]	Enhancement
35	<i>CustomerType</i> and <i>EffectiveDate</i> have been removed from the Procedures Customer and Site Details Notifications. Remove these fields from the <i>SiteAddressDetails</i> type in the schema. [Refer 2.3.9]	Enhancement
36	Make <i>HazardDescription</i> field in <i>SiteAccessDetails</i> . [Refer 2.3.9] and <i>ServicePoint</i> [Refer: 2.3.8] a repeating field. Remove <i>HazardCodeWithStatus</i> as obsolete.	Enhancement
37	Remove <i>ServicePoint</i> from the <i>CustomerDetailsNotification</i> . [Refer 2.3.9]	Bug fix
38	Make <i>Reason</i> element in <i>CustomerDetailsRequest</i> mandatory per business requirements. . [Refer 2.3.9]	Enhancement
NMI Discovery Follow-up process		
39	Remove additional items added to support NMI Discovery Follow-up process. [Refer 2.3.20]	Enhancement
Enumerations		
40	Change enumerated list for the following types in accordance with MSATS Procedures: B2B Procedures: <i>ActionType</i> [Refer 2.3.26], <i>SORDResponseCode</i> [2.3.11], <i>InstallationType</i> [2.3.11], <i>IndexInvestigationCode</i> [2.3.8], <i>MeteringType</i> [2.3.11], <i>MovementType</i> [2.3.9], <i>RequestReason</i> [2.3.9], <i>MethodSent</i> [2.3.8], <i>ServiceOrderType</i> [2.3.11], <i>ServiceOrderSubType</i> [2.3.11].	Enhancement

1.2. Reason for Change

These changes are required to build the aseXML schema to support the implementation of the Business to Business procedures: Meter Data, Customer & Site Details Notification and Service Order.

1.3. Supplied Documents

1.3.1 Business process document

The following Business Process documents are provided in support of this request:

1. MSATS Procedures: Business to Business Procedures, Meter Data process
2. MSATS Procedures: Business to Business Procedures, Service Order process
3. MSATS Procedures: Business to Business Procedures, Customer & Site Details Notification process
4. MSATS procedures: B2B Procedures, Tranche 1 Build Pack

Full details of each of the MSATS Procedures: B2B Procedures are available on the following URL:

<http://www.nemmco.com.au/meteringandretail/648-0005.htm>

The Build Pack document is available on [Nemconnect](#)

1.3.2 Data model

1.4. Impact assessments on Participant's systems

1.4.1 Business Impact

Please refer to MSATS Procedures: Business to Business Procedures documents. The schema changes are required to support the implementation of the B2B Procedures by the end of October 2005. Any delay in the finalization of the schema change may affect the achievement of this implementation date

1.4.2 Technical Impact

The Participants will need to develop their gateways to enable exchange of the Meter Data, Service Order and Customer & Site Details Notification transactions.

1.5. Affected Configuration Items (Baseline)

1.5.1 Schema

The baseline for the identified schema changes is aseXML_r14.

2. Approval Proposal

2.1. Description of the proposed approval

The table below defines the action in relation to each change item as listed in the Description of the proposed change section.

Table 2-1, Proposed Change Approval

Item#	Change Description	Change Type	Action
Business Changes			
Service Order Process			
1	Remove <i>RetailerID</i> and <i>ProviderID</i> from the <i>ServiceOrderHeader</i> as they are contained in the aseXML message <i>Header</i> . [Refer 2.3.26]	Bug fix	Approved
2	Remove <i>NominatedResponsiblePerson</i> , <i>NominatedMeterProvider</i> and <i>DesiredNMISStatus</i> from the <i>ElectricityServiceOrderDetails</i> and replace them with the corresponding fields from the <i>ElectricityStandingData</i> . [Refer 2.3.11]	Enhancement	Approved
3	To support 'New Connection' <i>ServiceOrderRequest</i> : Remove forced choice between <i>MeteringType</i> and <i>OffPeakRequirements</i> and between <i>MaximumDemand</i> and <i>NMISStandingData</i> in <i>ElectricityServiceOrderDetails</i> . [Refer 2.3.11]	Bug fix	Approved
4	Remove the <i>MeterInstallationTypeCode</i> element from <i>ElectricityServiceOrderDetails</i> and use <i>ElectricityStandingData</i> instead as it already contains <i>MeterInstallationTypeCode</i> . [Refer 2.3.11]	Bug fix	Approved
5	Add <i>SwitchingServiceRequired</i> element to the <i>ElectricityServiceOrderDetails_type</i> . [Refer 2.3.11]	Enhancement	Approved with alteration; [Refer: 4.1]
6	Make <i>Product</i> container element mandatory in the <i>ElectricityServiceOrderNotificationData</i> type to reflect the business process. [Refer 2.3.11]	Bug fix	Approved

Item#	Change Description	Change Type	Action
7	<p>Replace the <i>AddressWithStatus</i> with <i>Address</i> type as business requirements no longer exist for <i>AddressWithStatus</i>. [Refer 2.3.9, 2.3.26]</p> <p><i>AddressWithStatus</i> to be replaced with <i>Address</i> in the following types:</p> <ul style="list-style-type: none"> • <i>CustomerDetail</i> (<i>PostalAddress</i> element) • <i>ServicePoint</i> (<i>Address</i> element) • <i>ServiceOrderHeader</i> (<i>Address</i> element) <p>Replace <i>AustralianPhoneNumberWithStatus</i> with <i>AustralianPhoneNumber</i> as requirement no longer exists [Refer 2.3.9]</p> <p><i>AustralianPhoneNumberWithStatus</i> to be removed from the schema as business requirements no longer exist for it.</p>	Enhancement	Approved
8	<p>Replace <i>AustralianAddress</i> type for <i>Address</i> element in <i>SiteAddressDetails</i> with <i>Address</i> to make it consistent with the address type elsewhere in the B2B transactions. [Refer: 2.3.9]</p>	Enhancement	Approved
9	<p><i>ServiceOrderType</i> is mandatory in the schema for the <u><i>ServiceOrderResponse</i></u> transaction. In the definition of the <u><i>ServiceOrderResponse</i></u> transaction in the B2B Procedures this element is not listed. Make the element optional in the Schema so it does not have to be provided in the Response. [Refer 2.3.26]</p> <p>The same issue is applicable for the Appointment Notification use of the <u><i>ServiceOrderResponse</i></u> transaction. [Refer 2.3.26]</p>	Bug fix	Approved
10	<p>Elements <i>ServiceTime</i> and <i>ConfirmedDe-energisation</i> exist in the MSATS Procedures: B2B Procedures: Service Order Processes but do not exist in the schema. Include these in the <i>ElectricityServiceOrderDetails</i>. Add <i>ConfirmedDe-energisation</i> as YES/NO. Add new type <i>ServiceTimeType</i> with enumerations: <i>ServiceTime</i>: 'Any Time', Business Hours', 'Non-Business hours'. [Refer 2.3.11]</p>	Enhancement	Approved with alteration; [Refer: 4.1]
11	<p>Remove <i>SpecialReadReasonCode</i> from the <i>ElectricityServiceOrderType</i> and replace with the following enumeration list for <i>ServiceOrderType</i> = 'Special Read': Add <i>ServiceOrderSubType</i> values of : 'Final Read' and 'Check Read'. [Refer 2.3.11]</p>	Enhancement	Approved
12	<p>Remove <i>MeterSerialNumber</i> from <i>ElectricityServiceOrderDetails</i> and provide through the <i>ElectricityStandingData</i> structure. <i>MeterSerialNumber</i> in <i>ElectricityServiceOrder</i> type is not required as it already exists in the <i>ElectricityStandingData</i>. If used from <i>ElectricityStandingData</i>, multiple <i>MeterSerialNumbers</i> can be provided so it will not be necessary to use <i>SpecialInstructions</i> (as currently in the schema). [Refer 2.3.11]</p>	Bug fix	Approved
13	<p>Add <i>ActionType</i> = 'Replace' for <u><i>ServiceOrderRequest</i></u> required. [Refer 2.3.26]</p>	Enhancement	Approved

Item#	Change Description	Change Type	Action
14	<i>CustomerConsultationRequired</i> exists in the MSATS Procedures: B2B Procedures: Service Order Processes but not in the Schema. Add <i>CustomerConsultationRequired</i> to the <i>ElectricityServiceOrderDetails</i> type. [Refer 2.3.11]	Enhancement	Approved with alteration; [Refer: 4.1]
15	<i>ServicePoint</i> is not used in <i>ServiceOrderResponse</i> . Remove from the transaction in the Schema. [Refer 2.3.26]	Bug fix	Approved
16	Change <i>CustomerDetail</i> element in <i>ServiceOrderResponse</i> type to <i>ContactDetail</i> . [Refer 2.3.26]	Bug fix	Approved
17	Rename <i>ServiceOrderType</i> element in <i>ElectricityServiceOrderType</i> to <i>Type</i> [Refer: 2.3.11]	Enhancement	Approved with alteration; [Refer: 4.1]
18	Rename <i>ServiceOrderNotification</i> type to <i>ServiceOrderResponse</i> type to align it with the naming convention in the schema. [Refer 2.3.26, 2.3.28]	Enhancement	Approved
19	Remove <i>NMISstandingData</i> element from <i>ElectricityServiceOrderDetails</i> and place it to the <i>ServiceOrderRequestData</i> to align the <i>ServiceOrderRequestData</i> and <i>ServiceOrderNotificationData</i> structures. [Refer 2.3.26]	Enhancement	Approved
20	<i>ExceptionCode</i> element in <i>ElectricityServiceOrderNotificationData</i> type renamed to <i>ResponseCode</i> [Refer: 2.3.11]	Enhancement	Approved
Meter Data Process			
21	<i>EndReadDate</i> in both <i>ProvideMeterDataRequest</i> and <i>MeterDataVerifyRequest</i> transactions should be optional. To accommodate that, create <i>PartialPeriod</i> which has <i>BeginDate</i> mandatory and <i>EndDate</i> optional. Refer [2.3.8 & 2.3.11]	Enhancement	Approved with alteration; [Refer: 4.1]
22	Change <i>RequestPeriod</i> element in <i>ElectricityVerifyMeterRequestData</i> from optional to mandatory; Make <i>RequestPeriod</i> of type <i>PartialPeriod</i> [Refer 2.3.11]	Enhancement	Approved with alteration; [Refer: 4.1]
23	Replace <i>StartDate/EndDate</i> structure in <i>ElectricityProvideMeterRequestData</i> with <i>RequestPeriod</i> . Make <i>RequestPeriod</i> of type <i>PartialPeriod</i> [Refer 2.3.11]	Enhancement	Approved with alteration; [Refer: 4.1]
24	Remove <i>BlockNumber</i> and <i>LastBlockFlag</i> from the schema. They have been removed from the Meter Data procedures. [Refer 2.3.18]	Enhancement	Approved

Item#	Change Description	Change Type	Action
25	<i>RequestID</i> is generated by the request transaction. When the response transaction refers to the request transaction that initiated the response, it uses an element that is also called <i>RequestID</i> . Use <i>transactionID</i> and <i>initiatingTransactionID</i> pair instead. Remove <i>RequestID</i> from the <i>MeterDataNotification</i> , <i>ElectricityProvideMeterDataRequest</i> , <i>ElectricityVerifyMeterDataRequest</i> . [Refer 2.3.18]	Enhancement	Approved
26	<i>NMIconfiguration</i> exists in the B2B Procedures, Meter Date Process (<i>MeterDataVerifyRequest</i>) but does not exist in the aseXML transaction. Include <i>NMIconfiguration</i> in the <i>MeterDataVerifyRequest</i> transaction. [Refer 2.3.11]	Enhancement	Approved
27	Add <i>ParticipantRole</i> to <i>MeterDataNotification</i> type . [Refer 2.3.18]	Enhancement	Approved
28	<i>InvestigationDescription</i> in <i>ElectricityVerifyMeterRequestData</i> should be mandatory. [Refer 2.3.11]	Enhancement	Approved
29	<i>Proposed</i> element should be removed from the <i>ElectricityVerifyMeterRequestData</i> . [Refer 2.3.11]	Enhancement	Approved
30	<i>Current</i> element is mandatory in the <i>ElectricityVerifyMeterRequestData</i> while it is not mandatory per business process requirements. Change <i>Current</i> to optional. [Refer 2.3.11]	Bug fix	Approved
31	All elements in <i>ElectricityMeterReadData</i> type should be changed from optional to mandatory per business requirements. [Refer 2.3.11]	Enhancement	Approved
32	Create new transaction <i>ProvideMeterDataRequest</i> [Refer: 2.3.18, 2.3.28] instead of using <i>MeterDataMissingNotification</i> to reflect the Provide Meter Data business process.]. Other transaction names– align with Procedure names where practical	Bug fix	Rejected Transaction reuses <i>MeterDataMissingNotification</i> structure [Refer: 4.1]
33	Remove <i>MeterConfigData</i> type [Refer 2.3.18], <i>MeterConfigNotification</i> type [2.3.18] and <i>MeterConfigNotification</i> transaction removed from the schema [2.3.28], as they are obsolete.	Enhancement	Approved
Customer & Site Details Notification Process			
34	Add 'Site Vacant' to the enumerated list of <i>MovementType</i> within <i>CustomerDetailtype</i> Remove 'Move In' and 'Move Out' enumerations. [Refer 2.3.9]	Enhancement	Approved
35	<i>CustomerType</i> and <i>EffectiveDate</i> have been removed from the Procedures Customer and Site Details Notifications. Remove these fields from the <i>SiteAddressDetails</i> type in the schema. [Refer 2.3.9]	Enhancement	Approved

Item#	Change Description	Change Type	Action
36	Make <i>HazardDescription</i> field in <i>SiteAccessDetails</i> . [Refer 2.3.9] and <i>ServicePoint</i> [Refer: 2.3.8] a repeating field. Remove <i>HazardCodeWithStatus</i> as obsolete.	Enhancements	Approved
37	Remove <i>ServicePoint</i> from the <i>CustomerDetailsNotification</i> . [Refer 2.3.9]	Bug fix	Approved
38	Make <i>Reason</i> element in <i>CustomerDetailsRequest</i> mandatory per business requirements. . [Refer 2.3.9]	Enhancements	Approved
NMI Discovery Follow-up process			
39	Remove additional items added to support NMI Discovery Follow-up process. [Refer 2.3.20]	Enhancement	Approved
Enumerations			
40	Change enumerated list for the following types in accordance with MSATS Procedures: B2B Procedures: <i>ActionType</i> [Refer 2.3.26], <i>SORDResponseCode</i> [2.3.11], <i>InstallationType</i> [2.3.11], <i>IndexInvestigationCode</i> [2.3.8], <i>MeteringType</i> [2.3.11], <i>MovementType</i> [2.3.9], <i>RequestReason</i> [2.3.9], <i>MethodSent</i> [2.3.8], <i>ServiceOrderType</i> [2.3.11], <i>ServiceOrderSubType</i> [2.3.11].	Enhancement	Approved [Refer: 4.1]
Additional			
41	<i>DocumentReference</i> represent as complex type containing form name and form number. [Refer: 2.3.11]	Enhancement	Approved
42	Improve the design of the <i>ElectricityVerifyMeterRequestData</i> and <i>ElectricityProvideMeterRequestData</i> to avoid a version change impact on the <i>ElectricityStandingData</i> complex type.[Refer: 2.3.8, 2.3.11] <ul style="list-style-type: none"> • <i>ElectricityVerifyMeterRequestData</i> type to be extended from <i>NMITransactionBase</i> abstract type, and <i>NMIStandingData</i> type added directly to <i>ElectricityVerifyMeterRequestData</i>. • Same logic to be applied to the <i>ElectricityProvideMeterRequestData</i> type. 	Enhancement	Approved
43	Change <i>License</i> field <i>AttendanceRequired</i> from Yes/No to true/false. [Refer: 2.3.11]	Enhancement	Approved
44	Remove <i>HazardCode</i> enumerations as they are not required. [Refer: 2.3.8]	Enhancement	Approved
45	Replace <i>NMIWithChecksum</i> with <i>NMI</i> to allow for checksum to be optional [Refer: 2.3.9]	Enhancement	Approved
46	Remove rest of obsolete types and attributes that remained from the previous schema design [Refer: 2.3.9]	Enhancement	Approved
47	Adjust the <i>SafetyCertificate</i> structure to better fit with Procedures [Refer: 2.3.11]	Enhancement	Approved

Item#	Change Description	Change Type	Action
48	Alter the <i>CustomerDetailsNotification</i> to better align with Procedures [Refer: 2.3.9]	Enhancement	Approved
49	<i>BusinessName</i> type extended from 60 to 200 characters [Refer: 2.3.9]	Bug fix	Approved
50	Added optional attribute <i>@businessNameTypeCode</i> to <i>BusinessName</i> with enumerations as in the Australian Standard AS 4590. [Refer: 2.3.9]	Enhancement	Approved

2.2. Configuration Items (New Baseline)

2.2.1 Draft schema

Draft schema r17 provided.

2.3. File Change Summary

2.3.1 Acknowledgements

- No change.

2.3.2 aseXML

- Changed aseXML namespace to urn:aseXML:r17
- r17 files included: Common_r17, CustomerDetails_r17, Electricity_r17, Events_r17, Gas_r17.xsd, MeterDataManagement_r17, NMIDataAccess_r17, ServiceOrders_r17, Transactions_r17.

2.3.3 BAR

- No change.

2.3.4 BulkDataTool

- No change.

2.3.5 CATSReport

- No change.

2.3.6 CATSTableReplication

- No change.

2.3.7 ClientInformation

- No change.

2.3.8 Common

- Enumerations for *IndexInvestigationCode* updated to the following [Item #40]:

```
<xsd:simpleType name="IndexInvestigationCode">
```

```

<xsd:annotation>
  <xsd:documentation>Schema – Gas</xsd:documentation>
</xsd:annotation>
<xsd:restriction base="xsd:string">
  <xsd:enumeration value="Confirm Reading For Vacant Site"/>
  <xsd:enumeration value="Confirm Zero Consumption"/>
  <xsd:enumeration value="Incomplete Data"/>
  <xsd:enumeration value="Invalid MDFF Data"/>
  <xsd:enumeration value="Invalid Standing Data"/>
  <xsd:enumeration value="Missing Datastream"/>
  <xsd:enumeration value="Require Actual Reading or Substitute"/>
  <xsd:enumeration value="Require Final Substitute"/>
  <xsd:enumeration value="Require Latest Version"/>
  <xsd:enumeration value="Scheduled Reading Required"/>
  <xsd:enumeration value="Service Order Reading Required"/>
  <xsd:enumeration value="Verify High Reading"/>
  <xsd:enumeration value="Verify Low Reading"/>
  <xsd:enumeration value="Customer Away"/>
  <xsd:enumeration value="Customer Query"/>
  <xsd:enumeration value="Customer Read"/>
  <xsd:enumeration value="High Account"/>
  <xsd:enumeration value="Zero Consumption"/>
  <xsd:enumeration value="Recipient Not Responsible For The NMI"/>
  <xsd:enumeration value="Other"/>
</xsd:restriction>
</xsd:simpleType>

```

- *MethodSent* enumerations amended [Item #40]:

```

<xsd:simpleType name="MethodSent">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Faxed"/>
    <xsd:enumeration value="Email"/>
    <xsd:enumeration value="Online"/>
    <xsd:enumeration value="OnSite"/>
  </xsd:restriction>
</xsd:simpleType>

```

- *SiteHazard* type created with *Code* and *Description* elements [Item #36]

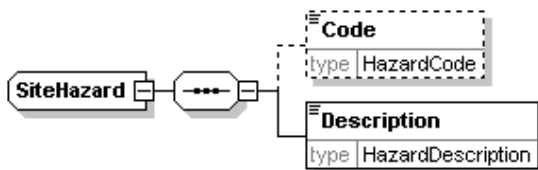


Figure 2-1 *SiteHazard* schema type

- Enumerations removed from the *HazardCode* type [Item #44]
- *HazardCodeWithAttribute* type removed [Item #36]
- *Hazard* is repeating element in the *ServicePoint* type; It uses *SiteHazard* type. [Item #36]
- *Address* element uses *Address* type instead of *AddressWithStatus* in *ServicePoint* (*Address* element) [Item #7]
- *AddressWithStatus* type has been removed [Item #7]

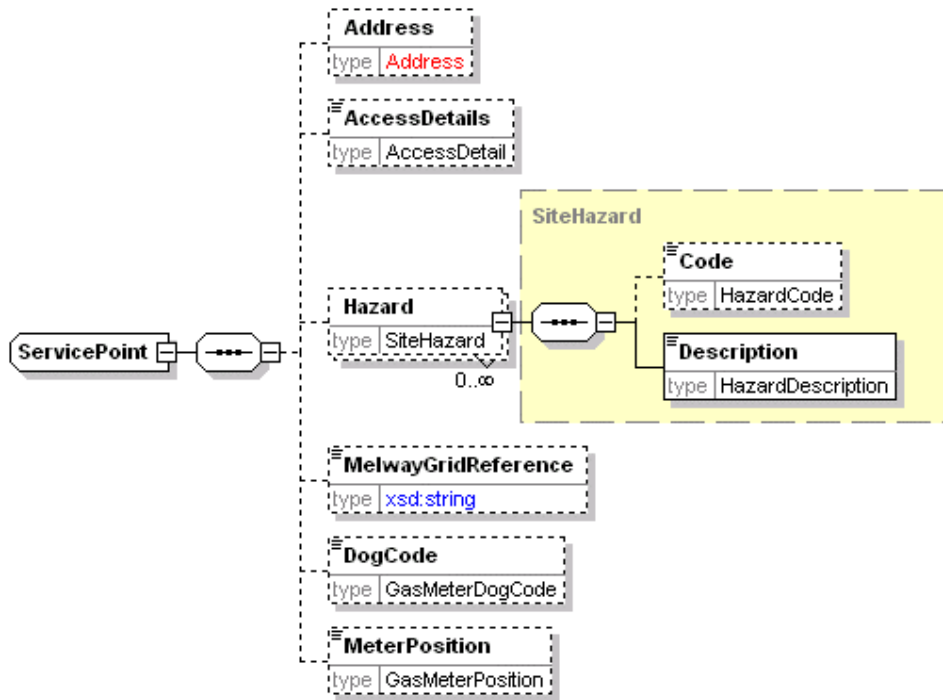


Figure 2-2 *ServicePoint* schema type

- *OpenPeriod* type created with *BeginDate* mandatory and *EndDate* optional [Item #21]

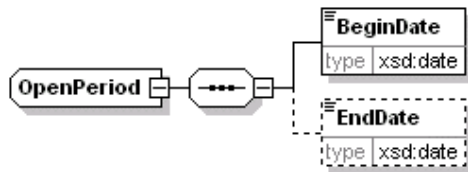


Figure 2-3 *OpenPeriod* schema type

- SafetyCertificate structure changed for better fit with Procedures.[Item #47]

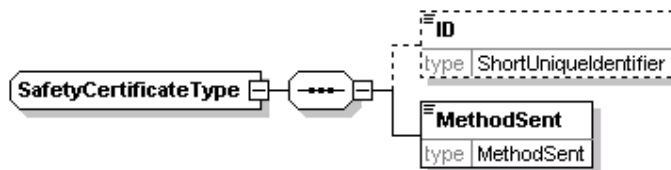


Figure 2-4 *SafetyCertificate* schema type

2.3.9 CustomerDetails

- *CustomerType* and *EffectiveDate* have been removed from the *SiteAddressDetails* type[Item #35]
- *AustralianPhoneNumberWithStatus* has been removed[Item #7]
- *NMI* element implements *NMI* type instead of *NMIWithChecksum* to allow for optional checksum. [Item #45]

- *Address* element in the *SiteAddressDetails* type uses *Address* type instead of *AustralianAddress* type [Item #8]
- Version number on *AmendMeterRouteDetails* changed to r17 because of change to *SiteAddressDetails*

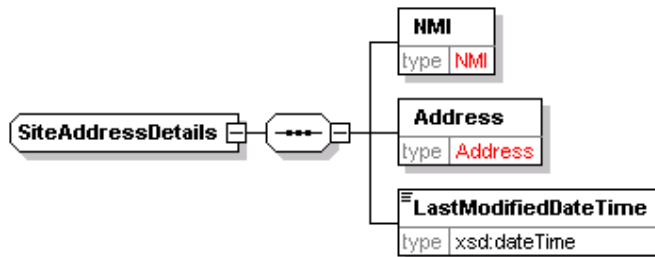
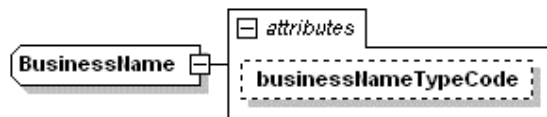


Figure 2-5 *SiteAddressDetails* schema type

- New type *BusinessNameTypeCode* defined with the following enumerations [Item #50]:

```
<xsd:simpleType name="BusinessNameTypeCode">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="OTH"/>
    <xsd:enumeration value="MTR"/>
    <xsd:enumeration value="OTR"/>
    <xsd:enumeration value="MN"/>
    <xsd:enumeration value="PRF"/>
    <xsd:enumeration value="LGL"/>
    <xsd:enumeration value="MAU"/>
  </xsd:restriction>
</xsd:simpleType>
```

- *BusinessName* type modified to have optional attribute called *businessNameTypeCode* of type *BusinessNameTypeCode* [Item #49]



- *PostalAddress* element uses *Address* type instead of *AddressWithStatus* in *CustomerDetail* [Item #7]
- Attribute *@type* removed from *ContactName* in *CustomerDetail* type as no longer required. [Item #46]
- Attribute *@updateStatus* removed from *ContactName*, *PersonName*, *BusinessName* in *CustomerDetail* type as no longer required. [Item #46]
- *ContactName* in *CustomerDetail* type changed to optional as per Procedures. [Item #48]
- *SensitiveLoad*, *MovementType*, *LastModifiedDateTime* and *ConcessionCard* removed from *CustomerDetail* and placed in *CustomerData* type [Item #48]
- *PhoneNumber* element uses *AustralianPhoneNumber* type instead of *AustralianPhoneNumberWithStatus* [Item #7]

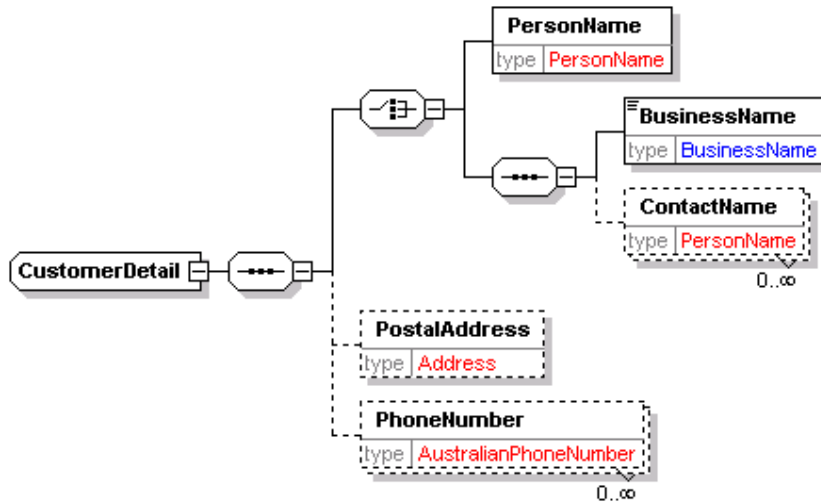


Figure 2-6 *CustomerDetail* schema type

- *MovementType* enumerations amended with ‘Site Vacant’ added and ‘Move Out’ and ‘Move In’ removed [Item #34];

```

<xsd:simpleType name="MovementType">
  <xsd:annotation>
    <xsd:documentation>
      Purpose – Define the fixed Special Condition Code used in customer details notification
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Update"/>
    <xsd:enumeration value="Reconciliation"/>
    <xsd:enumeration value="Site Vacant"/>
  </xsd:restriction>
</xsd:simpleType>
  
```

- *ServicePoint* removed from the *CustomerData* element [Item #37]
- *NMI* element implements *NMI* type instead of *NMIWithChecksum* to allow for optional checksum. [Item #45]

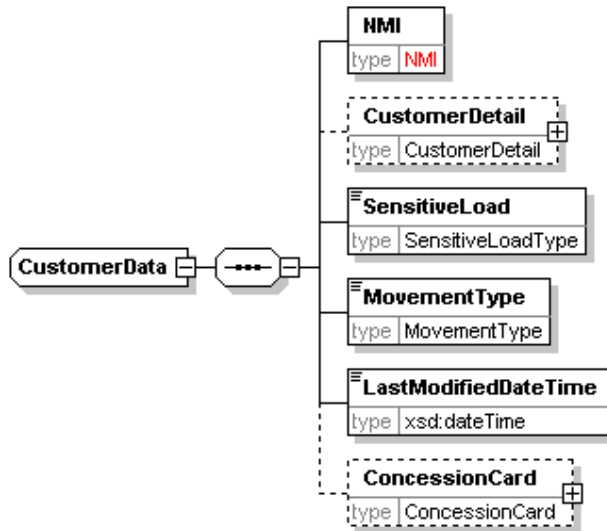


Figure 2-7 CustomerData schema type

- Hazard is repeating element in the SiteAccessDetails type; It uses SiteHazard type. [Item #36]
- Version number of SiteAccessDetails set to r17.

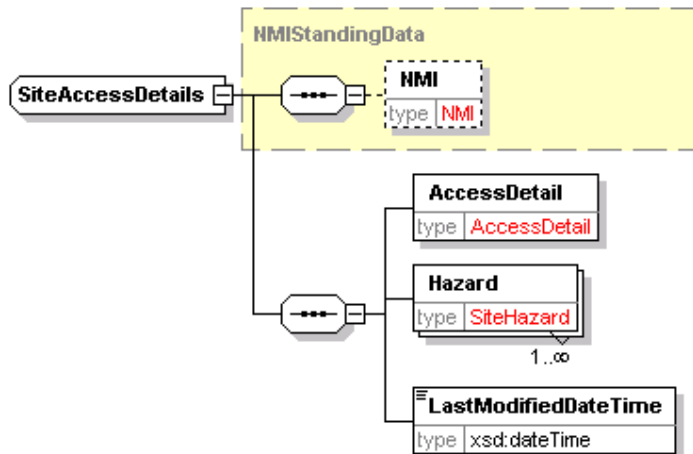


Figure 2-8 SiteAccessDetails schema type

- RequestReason type enumerations amended [Item #38]:

```
<xsd:simpleType name="RequestReason">
  <xsd:annotation>
    <xsd:documentation>
      Purpose – Define the fixed Reasons used to request customer details
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Returned Mail"/>
    <xsd:enumeration value="Missing Customer Details"/>
    <xsd:enumeration value="Confirm Life Support"/>
    <xsd:enumeration value="Other"/>
  </xsd:restriction>
</xsd:simpleType>
```

- *Reason* made mandatory per business requirements [Item #38]
- *NMI* element implements *NMI* type instead of *NMIWithChecksum* to allow for optional checksum. [Item #45]
- Version number of *CustomerDetailsRequest* set to *r17*.

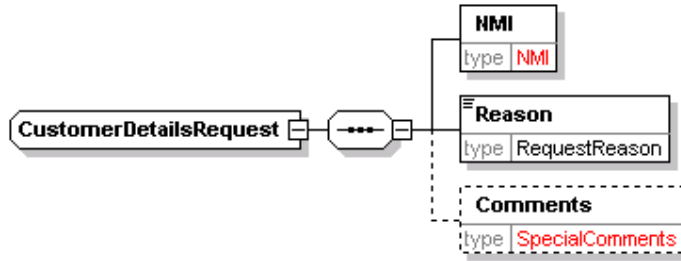


Figure 2-9 *CustomerDetailsRequest* transaction type

- *CustomerDetailsNotification* restructured to better fit with the Procedures.
- Version number of *CustomerDetailsNotification* set to *r17*. [Item #37, #34, #7]

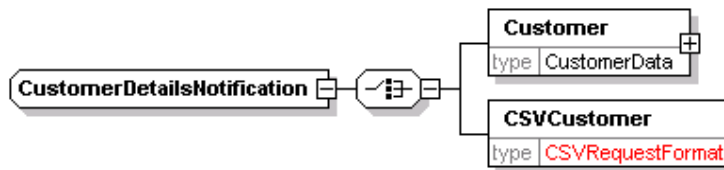


Figure 2-10 *CustomerDetailsNotification* transaction type

2.3.10 CustomerTransfer

- No change.

2.3.11 Electricity

- *DocumentReference* in the *License* uses the new created *DocumentReferenceType* [Item #41]

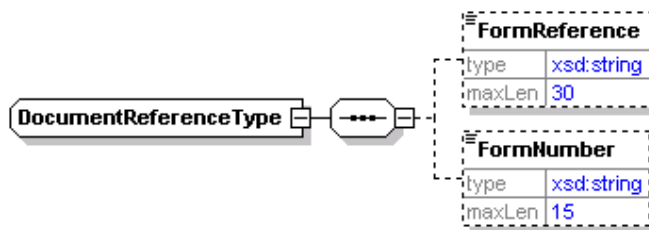


Figure 2-11 *DocumentReferenceType* schema type

- *ElectricityServiceOrderType* reduced to *WorkType* (*ServiceOrderType* type) element with an attribute *@workSubType* (*ServiceOrderSubType* type) [Item #17]
- *ServiceOrderType* enumerations replaced with full names instead of the abbreviations [Item #40]:

```
<xsd:simpleType name="ServiceOrderType">
  <xsd:annotation>
    <xsd:documentation>Purpose – Defines a list of valid Service Order types supported by the
participants</xsd:documentation>
  </xsd:annotation>
</xsd:simpleType>
```



```
<xsd:restriction base="xsd:string">
  <xsd:enumeration value="Allocate NMI"/>
  <xsd:enumeration value="New Connection"/>
  <xsd:enumeration value="Re-energisation"/>
  <xsd:enumeration value="De-energisation"/>
  <xsd:enumeration value="Special Read"/>
  <xsd:enumeration value="Adds And Alts"/>
  <xsd:enumeration value="Meter Reconfiguration"/>
  <xsd:enumeration value="Meter Investigation"/>
  <xsd:enumeration value="Supply Abolishment"/>
  <xsd:enumeration value="Miscellaneous"/>
</xsd:restriction>
</xsd:simpleType>
```

- *SpecialReadReasonCode* removed and replaced with additional enumerations in the *ServiceOrderSubType* [Item #11]
- *ServiceOrderSubType* changed to the following [Item #40]:

```
<xsd:simpleType name="ServiceOrderSubType">
  <xsd:annotation>
<xsd:documentation>Purpose – Defines a list of valid Service Order types supported by the
participants</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Temporary"/>
    <xsd:enumeration value="Temporary in Permanent"/>
    <xsd:enumeration value="Permanent"/>
    <xsd:enumeration value="After Disconnection For Non-Payment"/>
    <xsd:enumeration value="Sticker Removal"/>
    <xsd:enumeration value="Retrospective Move-in"/>
    <xsd:enumeration value="New Reading Required"/>
    <xsd:enumeration value="Remove Fuse"/>
    <xsd:enumeration value="Remove Fuse (Non-Payment)"/>
    <xsd:enumeration value="Pillar-Box Pit Or Pole-Top"/>
    <xsd:enumeration value="Pillar-Box Pit Or Pole-Top (Non-Payment)"/>
    <xsd:enumeration value="Sticker"/>
    <xsd:enumeration value="Install Hot Water"/>
    <xsd:enumeration value="Install Controlled Load"/>
    <xsd:enumeration value="Move Meter"/>
    <xsd:enumeration value="Install Meter"/>
    <xsd:enumeration value="Remove Meter"/>
    <xsd:enumeration value="Exchange Meter"/>
    <xsd:enumeration value="Check Read"/>
    <xsd:enumeration value="Final Read"/>
    <xsd:enumeration value="Change Controlled Load"/>
    <xsd:enumeration value="Change Timeswitch"/>
    <xsd:enumeration value="Change Tariff"/>
    <xsd:enumeration value="Tamper"/>
    <xsd:enumeration value="Inspect"/>
    <xsd:enumeration value="Meter Test"/>
  </xsd:restriction>
</xsd:simpleType>
```

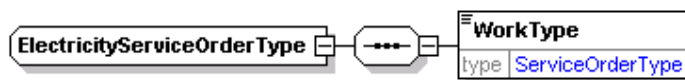


Figure 2-12 *ElectricityServiceOrderType*

- *ElectricityserviceOrderType* version number set to r17 [Item: #40, #17, #11]
- *MeterSerialNumber* removed and provided through the *ElectricityStandingData* Structure. [Item #12]
- *ElectricityServiceOrderDetails* extended with the following elements:

- *CustomerConsultationRequired* [Item #14]
- *ServiceTime* [Item #14]
- *SwitchingServiceRequired* [Item #5]
- *ConfirmedDe-energisation* [Item #10]
- The following elements are removed from *ElectricityServiceOrderDetails*:
 - *MeterInstallationTypeCode* (The field will be obtained from *ElectricityStandingData* instead) [Item #4];
 - *DesiredNMISStatus* (The field will be obtained from *ElectricityStandingData* instead) [Item #2];
 - *NominatedResponsiblePerson* (The field will be obtained from *ElectricityStandingData* instead) [Item #2]
 - *NominatedMeterProvider* (The field will be obtained from *ElectricityStandingData* instead) [Item #2];
 - *NMISStandingData* (Placed in the *ServiceOrderRequestData* abstract type instead) [Item #19]
- Forced choice removed between *MeteringType* and *OffPeakRequirements* and between *MaximumDemand* and *NMISStandingData* [Item #3]
- *MeteringType* enumerations amended [Item #40]:

```
<xsd:simpleType name="MeteringType">  
  <xsd:restriction base="xsd:string">  
    <xsd:enumeration value="Flat Rate"/>  
    <xsd:enumeration value="Two Rate"/>  
    <xsd:enumeration value="Time Of Use"/>  
    <xsd:enumeration value="CT Meter"/>  
    <xsd:enumeration value="Other"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

- *InstallationType* enumerations amended to the following [Item #40]:

```
<xsd:simpleType name="InstallationType">  
  <xsd:annotation>  
    <xsd:documentation>Purpose – Defines a list of valid Installation type</xsd:documentation>  
  </xsd:annotation>  
  <xsd:restriction base="xsd:string">  
    <xsd:enumeration value="Underground"/>  
    <xsd:enumeration value="Overhead"/>  
    <xsd:enumeration value="Underground To Overhead Mains"/>  
    <xsd:enumeration value="Overhead To Underground Mains"/>  
    <xsd:enumeration value="Transformer Overhead"/>  
    <xsd:enumeration value="Transformer Ground Level"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

- New *ServiceTimeType* type added with the following enumerations [Item #10]:

```
<xsd:simpleType name="ServiceTimeType">  
  <xsd:annotation>  
    <xsd:documentation> Service Order Service Time Type</xsd:documentation>  
  </xsd:annotation>  
  <xsd:restriction base="xsd:string">  
    <xsd:maxLength value="40"/>  
    <xsd:enumeration value="Any Time"/>  
    <xsd:enumeration value="Business Hours"/>  
    <xsd:enumeration value="Non-Business Hours"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

- *NominatedMeterProvider* type definition removed. [Item #2];
- Version attribute of *ElectricityServiceOrderDetails*: set to *r17*[Item #14, #12, #10, #40, #3, #19, #2, #5, #4].

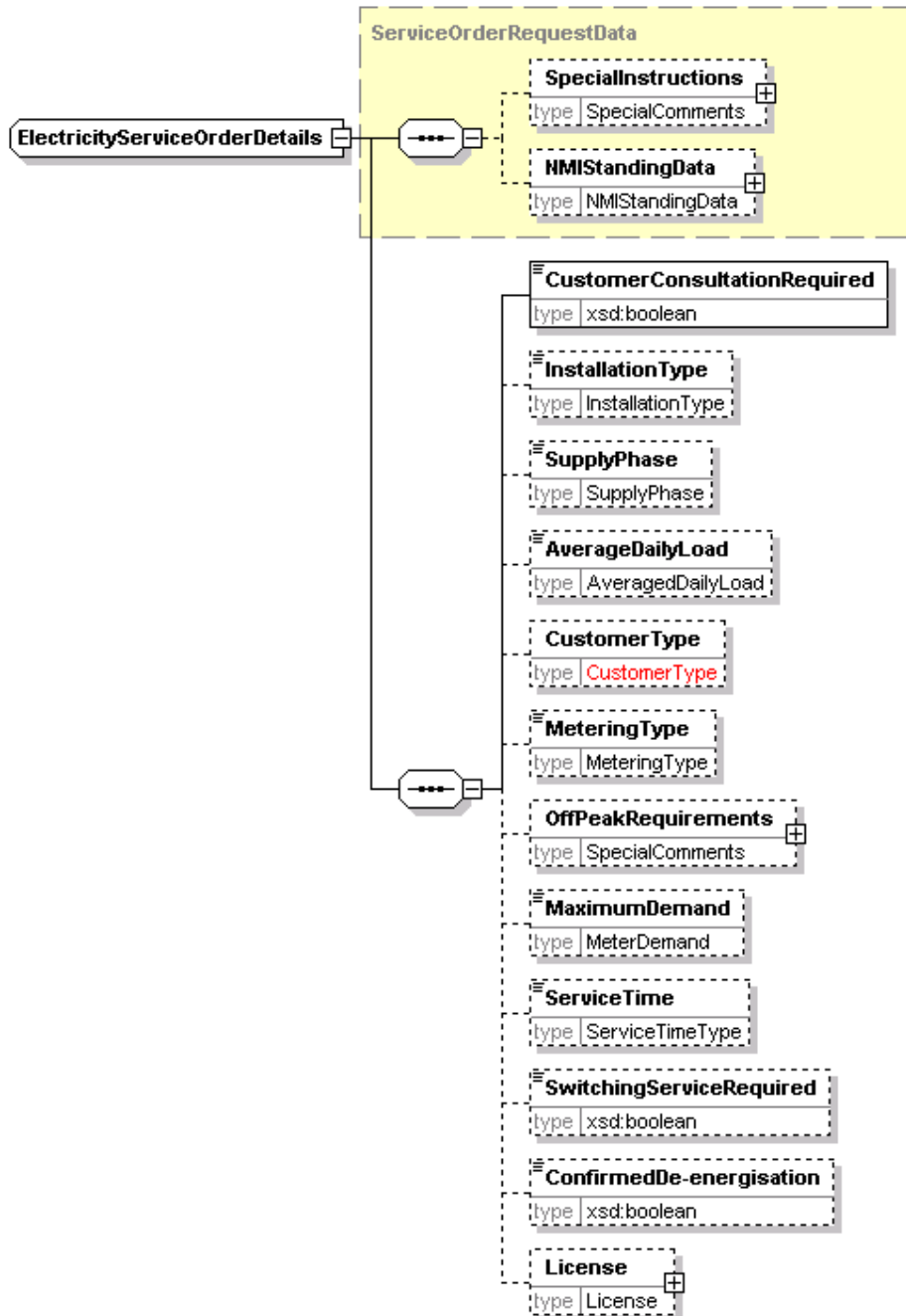


Figure 2-13 *ElectricityServiceOrderDetails* type

- *Product* made mandatory in the *ElectricityServiceOrderNotificationData*. [Item #6]
- *ExceptionCode* element in the *ElectricityServiceOrderNotificationData* replaced with *ResponseCode*. [Item #20]
- *SORDResponseCode* type (used for the *ResponseCode* element) enumerations extended and corrected to the following [Item #40]

```
<xsd:simpleType name="SORDResponseCode">
  <xsd:annotation>
```

```

<xsd:documentation>Purpose – Defines a list of valid response code for different types of service
orders</xsd:documentation>
</xsd:annotation>
<xsd:restriction base="xsd:string">
  <xsd:enumeration value="Customer On-Site"/>
  <xsd:enumeration value="Customer Prevented"/>
  <xsd:enumeration value="De-energisation Not Completed Due To A Re-energisation"/>
  <xsd:enumeration value="Documentation Not Provided"/>
  <xsd:enumeration value="Metering Problem"/>
  <xsd:enumeration value="Meter Reading Only Undertaken Due To Prior Re-energisation"/>
  <xsd:enumeration value="New Customer On-Site"/>
  <xsd:enumeration value="No Supply"/>
  <xsd:enumeration value="Other"/>
  <xsd:enumeration value="Reading Problem"/>
  <xsd:enumeration value="Request Submitted By Another Retailer"/>
  <xsd:enumeration value="Retailer Cancellation"/>
  <xsd:enumeration value="Sensitive Load"/>
  <xsd:enumeration value="Service Provider Cancellation"/>
  <xsd:enumeration value="Unable To Access"/>
  <xsd:enumeration value="Unknown Load"/>
  <xsd:enumeration value="Unsafe"/>
</xsd:restriction>
</xsd:simpleType>

```

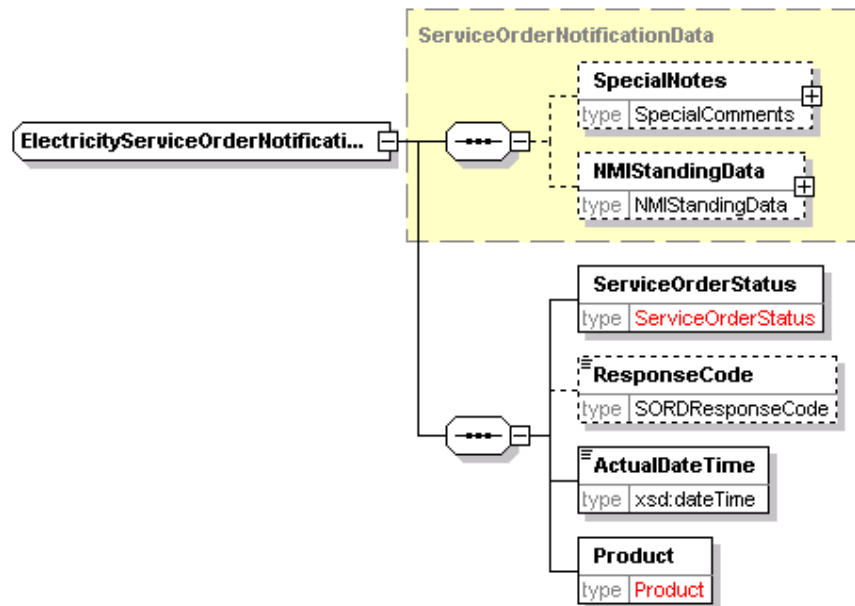


Figure 2-14 ElectricityServiceOrderNotificationData schema type

- ElectricityServiceOrderNotificationData version attribute set to r17 [Item: #6, #20, #40]
- RequestID removed from ElectricityProvideMeterRequestData. [Item #25]
- RequestPeriod replaces StartDate/EndDate structure in ElectricityProvideMeterRequestData. It uses OpenPeriod type instead of Period to allow for optional EndDate. [Item #23]
- ElectricityProvideMeterRequestData derived from NMITransactionBase abstract type instead of ElectricityStandingData [Item#42]
- NMISstandingData added to the ElectricityProvideMeterRequestData [Item#42]
- Version attribute of the ElectricityProvideMeterRequestData set to r17[Item: #25, #23, #42]

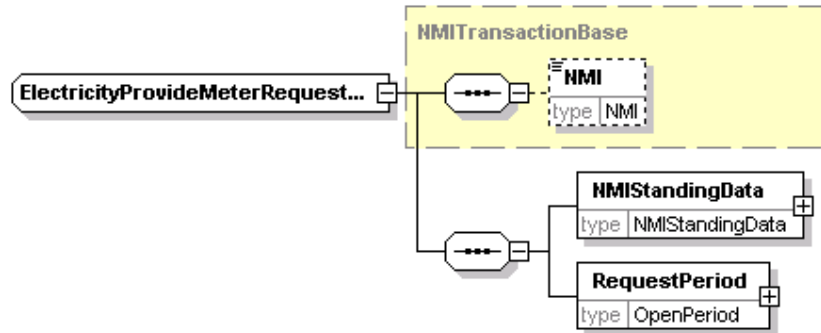


Figure 2-15 *ElectricityProvideMeterRequestData* schema type

- *InvestigationDescription* in the *ElectricityVerifyMeterRequestData* changed from optional to mandatory. [Item #28]
- *RequestPeriod* become mandatory as per business requirements; It uses *OpenPeriod* type instead of *Period* to allow for optional *EndDate*. [Item #22]
- *Current* element changed from mandatory to optional. [Item #30]
- All elements in *ElectricityMeterReadData* type become mandatory as per business requirements. [Item #31]
- *NMIConfiguration* added to the *ElectricityVerifyMeterRequestData*; *NMIConfiguration* uses *NMIConfigurationType* type [Item #26].
- *Proposed* element removed from the *ElectricityVerifyMeterRequestData*. [Item #29]
- *ElectricityVerifyMeterRequestData* derived from *NMITransactionBase* abstract type instead of *ElectricityStandingData*. [Item#42]
- *NMIStandingData* element of *NMIStandingData* type added to the *ElectricityVerifyMeterRequestData*. [Item#42]
- Version attribute of the *ElectricityVerifyMeterRequestData* set to *r17* [Refer: #28, #22, #30, #31, #26, #29, #42]
- *ElectricityVerifyMeterRequestData* has the following form.

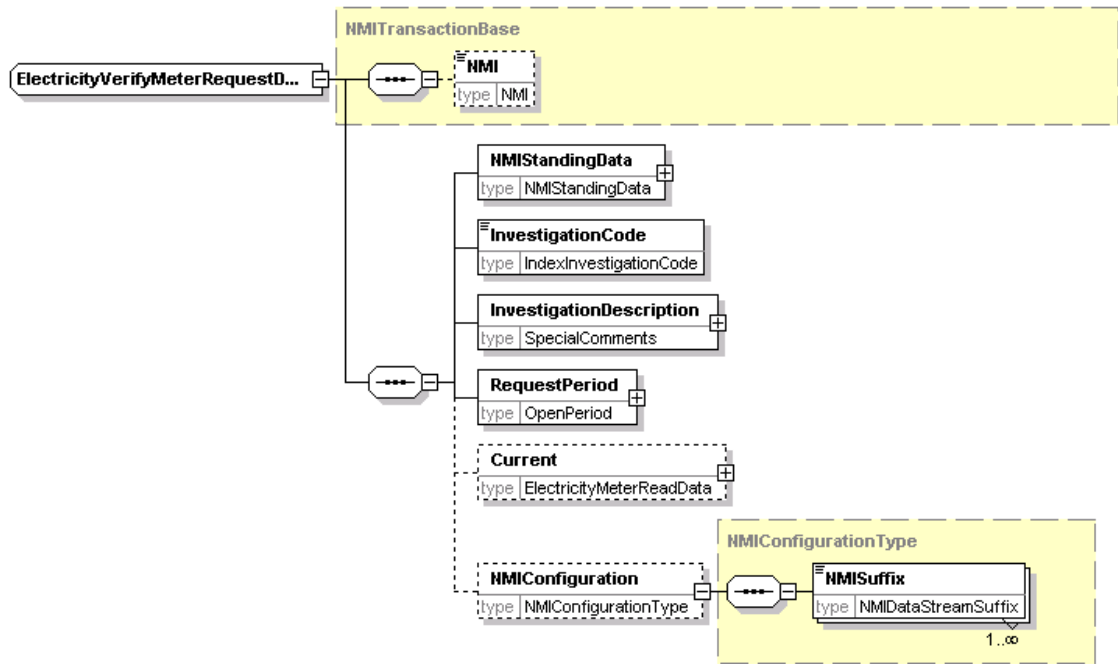


Figure 2-16 *ElectricityVerifyMeterRequestData* schema type

- *AttendanceRequired* element in *License* type uses `xsd:boolean` instead of YES/NO [Item: #43]
- *SafetyCertificate* element created in *License* instead of *SafetyCertificateID*. [Item #47]

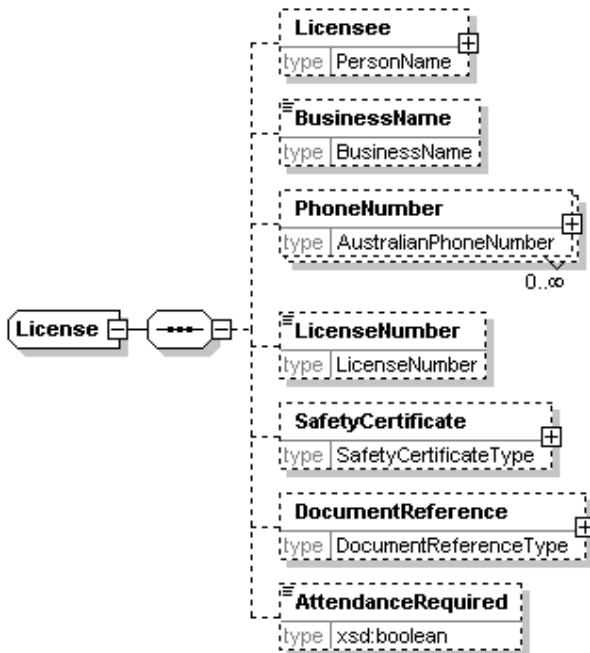


Figure 2-17 *License* schema type

2.3.12 Enumerations

- No change.

2.3.13 Events

- *r17* version added

2.3.14 Faults

- No change.

2.3.15 Gas

- *GasMeterVerifyRequestData* uses *NMITransactionBase* type instead of *NMIStandingData*. [Item: #42]
- *GasMeterVerifyRequestData* version attribute changed to *r17* as the result of change to *IndexInvestigationCode* type change [Item #40]:
- *GasStandingData* version attribute changed to *r17* as the result of change to *ServicePoint* type definition [Item #36]

2.3.16 Header

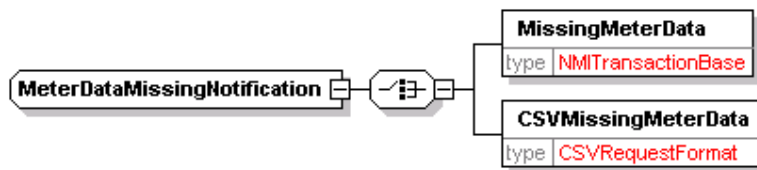
- No change.

2.3.17 MDMTReport

- No change.

2.3.18 MeterDataManagement

- *VerifyRequestData* element in the *MeterDataVerifyRequest* type is based on *NMITransactionBase* type instead of *NMIStandingData* type.[Item: #42]
- *MissingMeterData* element in the *MeterDataMissingNotification* type uses *NMITransactionBase* type instead of *NMIStandingData*.



- *MeterDataNotification* changed as follows:
 - *BlockNumber*, *LastBlockFlag* and *RequestID* removed from the transaction [Items #24& #25];
 - *ParticipantRole* added to the transaction. It uses *RoleAssignment* type[Item #27]
 - Version attribute of the *MeterDataNotification* type set to *r17* [Item: #24, #25, 27];

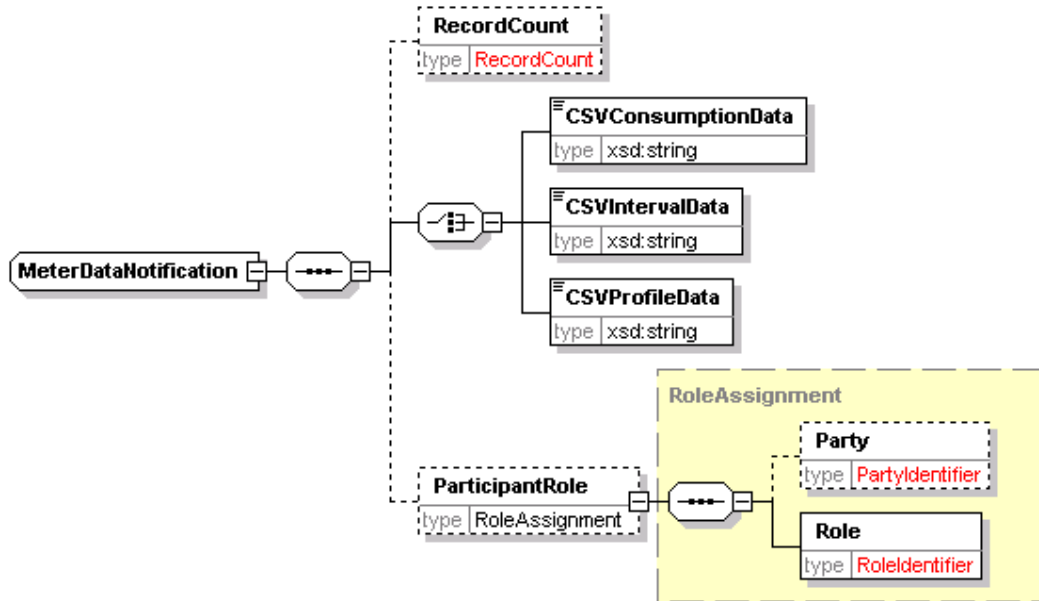


Figure 2-18 *MeterDataNotification* schema type

- *MeterConfigData* type removed as it become obsolete. [Item #33]
- *MeterConfigNotification* type removed as it is obsolete. [Item #33]

2.3.19 NetworkBilling

- No change.

2.3.20 NMIDataAccess

- B2B fields *Comment*, *RequestID*, *Retailer*, *CustomerName* and *BusinessName* removed from *NMIDiscoveryRequest*. [Item #39] This effectively reverts the transaction content to r4 equivalence.
- Version attribute of *NMIDiscoveryRequest* transaction changed to *r17*. [Item #39]

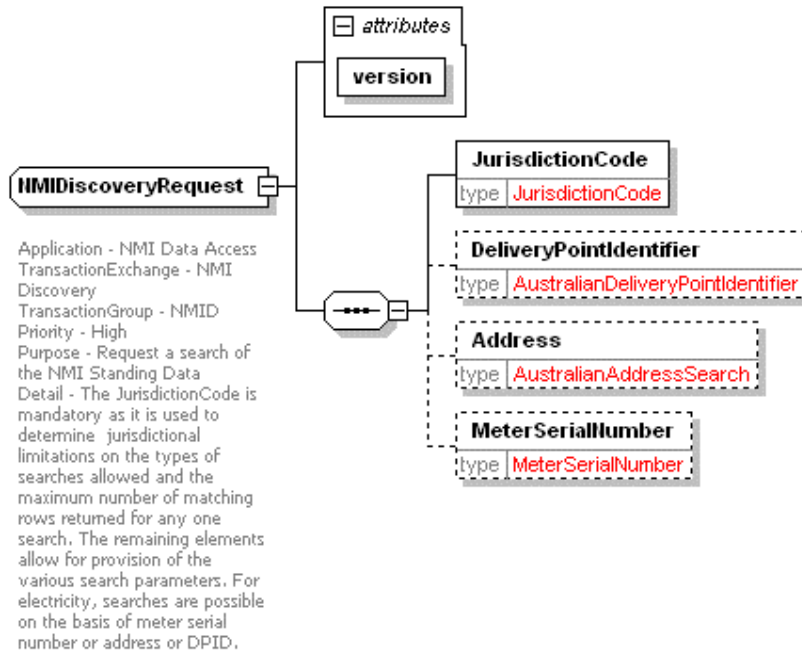


Figure 2-19 *NMIDiscoveryRequest* schema type

- B2B fields *Comment* and *RequestID* removed from *NMIDiscoveryResponse*. [Item #39] This effectively reverts the transaction content to r4 equivalence.
- Version attribute of *NMIDiscoveryResponse* transaction changed to r17. [Item #39]

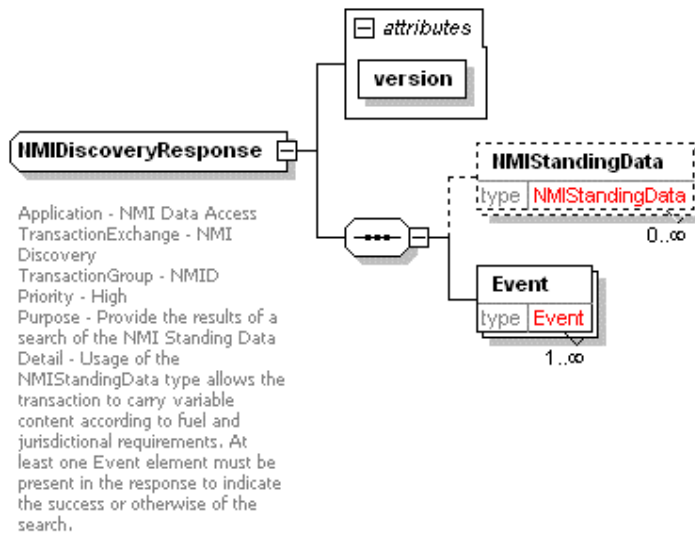


Figure 2-20 *NMIDiscoveryResponse* schema type

2.3.21 NOSAssessment

- No change.

2.3.22 NOSBooking

- No change.

2.3.23 NOSCommon

- No change.

2.3.24 NOSEquipment

- No change.

2.3.25 Reports

- No change.

2.3.26 ServiceOrder

- *ServiceOrderType* made optional due to use of the *ServiceOrderHeader* in the ServiceOrderResponse transaction. [Item #9]
- *RetailerID* and *ProviderID* removed from the *ServiceOrderHeader* [Item #1].
- *Address* element uses *Address* type instead of *AddressWithStatus* in *ServiceOrderHeader* (*Address* element) [Item #7]
- *ServiceOrderRequestData* abstract type extended with the *NMISStandingData*. [Item #19]
- *ActionType* 'Replace' added to the enumeration list. [Item #13]

```
<xsd:simpleType name="ActionType">
  <xsd:annotation>
    <xsd:documentation>Purpose – Defines a list of valid update statuses</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="New"/>
    <xsd:enumeration value="Update"/>
    <xsd:enumeration value="Cancel"/>
    <xsd:enumeration value="Replace"/>
  </xsd:restriction>
</xsd:simpleType>
```

- *ServiceOrderRequest* version attribute set to r17 [Item: #1, #19, #13]
- *ServiceOrderRequest* has the following form:

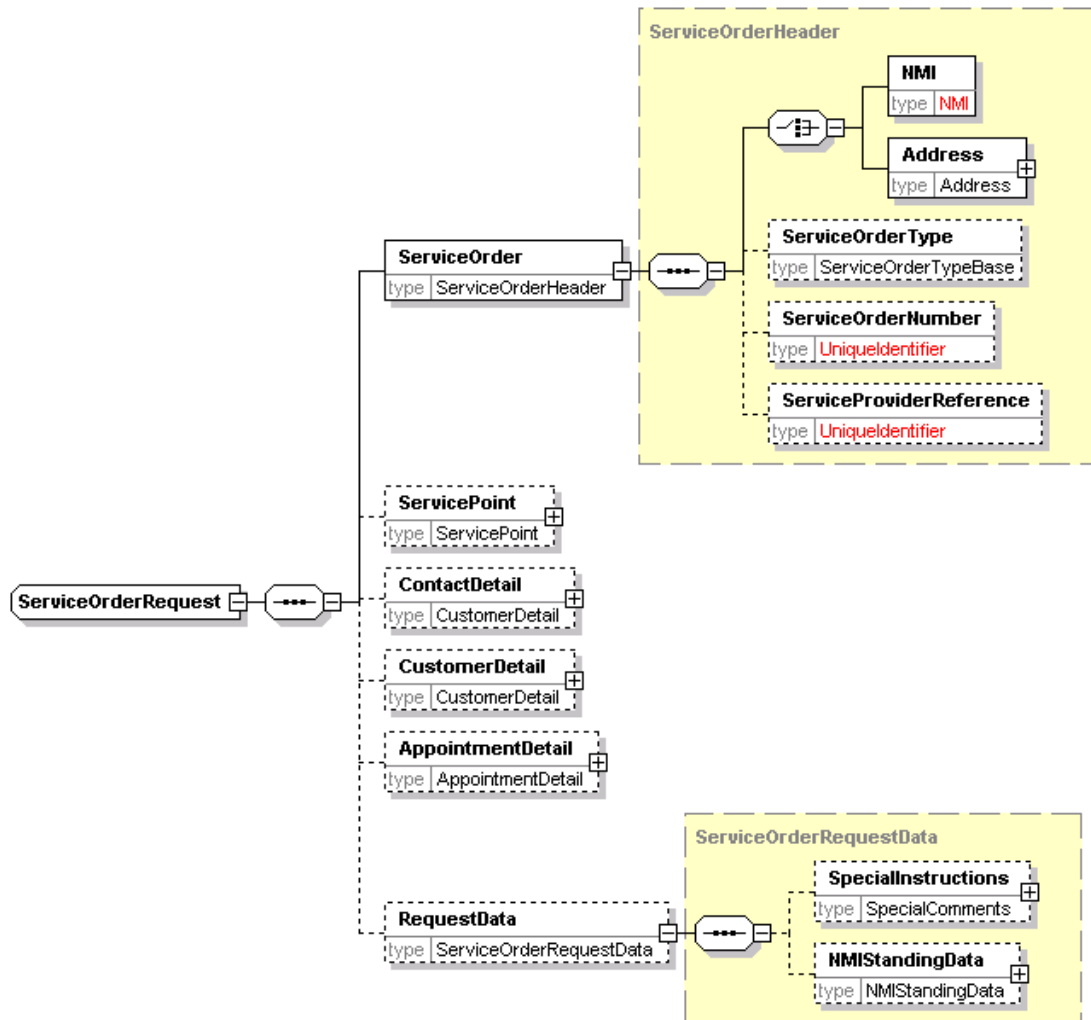


Figure 2-21 *ServiceOrderRequest* schema type

- *ServiceOrderNotification* type renamed to *ServiceOrderResponse*. [Item #18]
 - *CustomerDetail* replaced by *ContactDetail*. [Item #16]
 - *ServicePoint* removed from the *ServiceOrderResponse* transaction. [Item #15]
- *ServiceOrderResponse* transaction type version number set to r17 [Item: #18, #16, #15, #7]
- *ServiceOrderResponse* type has the following format:

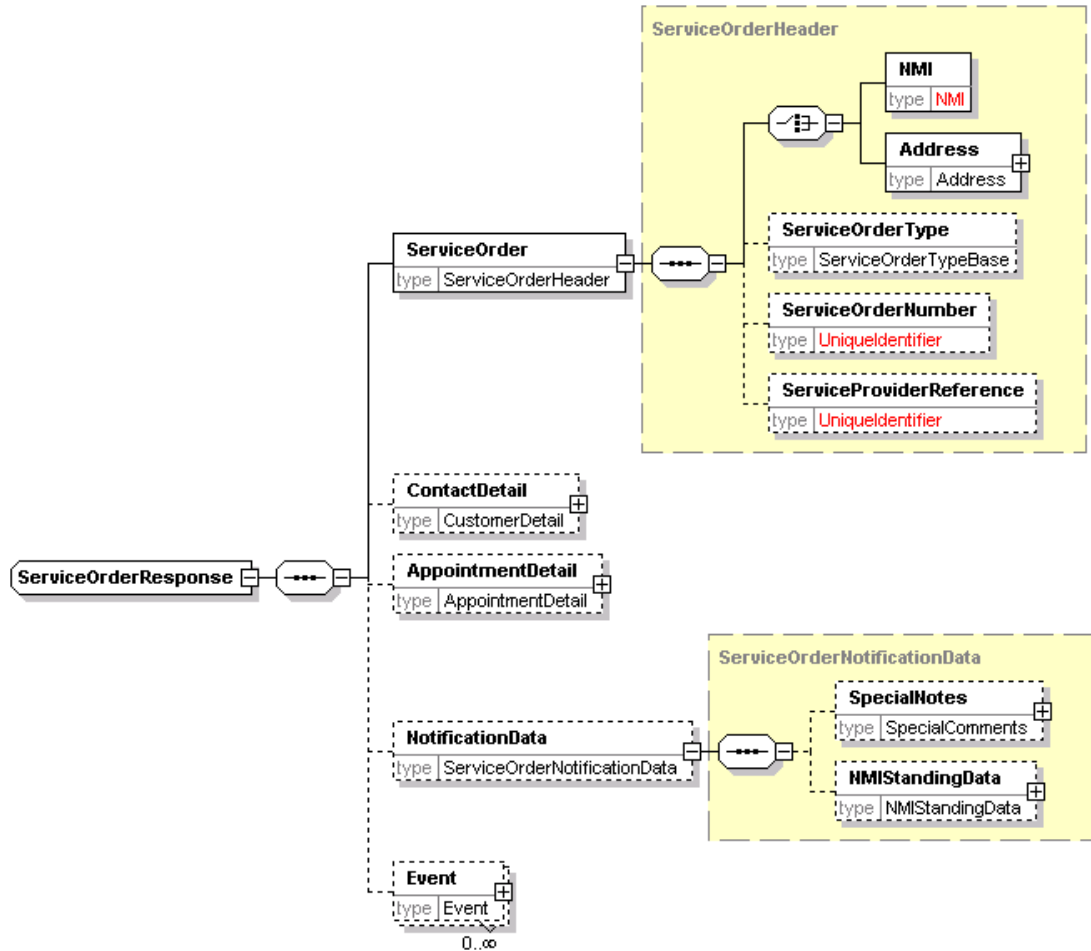


Figure 2-22 *ServiceOrderResponse* schema type

2.3.27 TableReplication

- No change.

2.3.28 Transactions

- ServiceOrderResponse transaction uses *ServiceOrderResponse* type. [Item #18]
- SpecialReadResponse transaction use *ServiceOrderResponse* type [Item #18]
- Removed MeterConfigNotification transaction, as it is obsolete. [Item #33]

2.4. Change log

The following changes have been implemented:

Chg No	Description	FileName	Item#
1	Changed aseXML namespace to urn:aseXML:r17	aseXML_r17	All

Chg No	Description	FileName	Item#
2	r17 files included: Common_r17, CustomerDetails_r17, Electricity_r17, Events_r17, Gas_r17, MeterDataManagement_r17, NMIDataAccess_r17, ServiceOrders_r17, Transactions_r17.	aseXML_r17	All
3	Enumerations for <i>IndexInvestigationCode</i> updated [Item #40]	Common_r17	40
4	<i>MethodSent</i> enumerations amended [Item #40]:	Common_r17	40
5	<i>SiteHazard</i> type created with <i>Code</i> and <i>Description</i> elements[Item #36]	Common_r17	40
6	<i>HazardCodeWithAttribute</i> type removed [Item #36]	Common_r17	36
7	<i>Hazard</i> is repeating element in the <i>ServicePoint</i> type; It uses <i>SiteHazard</i> type. [Item #36]	Common_r17	36
8	<i>Address</i> element uses <i>Address</i> type instead of <i>AddressWithStatus</i> in <i>ServicePoint</i> (<i>Address</i> element) [Item #7]	Common_r17	7
9	<i>AddressWithStatus</i> type has been removed[Item #7]	Common_r17	7
10	<i>OpenPeriod</i> type created with <i>BeginDate</i> mandatory and <i>EndDate</i> optional [Item #21]	Common_r17	21
11	<i>CustomerType</i> and <i>EffectiveDate</i> have been removed from the <i>SiteAddressDetails</i> type[Item #35]	CustomerDetails_r17	35
12	<i>AustralianPhoneNumberWithStatus</i> has been removed[Item #7]	CustomerDetails_r17	7
13	<i>Address</i> element in the <i>SiteAddressDetails</i> type uses <i>Address</i> type instead of <i>AustralianAddress</i> type[Item #8]	CustomerDetails_r17	8
14	<i>PostalAddress</i> element uses <i>Address</i> type instead of <i>AddressWithStatus</i> in <i>CustomerDetail</i> [Item #7]	CustomerDetails_r17	7
15	<i>MovementType</i> enumerations amended with 'Site Vacant' [Item #34]; 'Move Out' and 'Move In' removed	CustomerDetails_r17	34
16	<i>Hazard</i> is repeating element in the <i>SiteAccessDetails</i> type; It uses <i>SiteHazard</i> type. [Item #36]	CustomerDetails_r17	36
17	Version number of <i>SiteAccessDetails</i> set to r17 [Item #36]	CustomerDetails_r17	36
18	<i>RequestReason</i> type enumerations amended [Item #38]:	CustomerDetails_r17	38
19	<i>Reason</i> made mandatory per business requirements [Item #38]	CustomerDetails_r17	38
20	Version number of <i>CustomerDetailsRequest</i> set to r17. [Item #38]	CustomerDetails_r17	38
21	<i>ServicePoint</i> removed from the <i>CustomerDetailsNotification</i> [Item #3737]	CustomerDetails_r17	37
22	Version number of <i>CustomerDetailsNotification</i> set to r17. [Item #37, #34, #7]	CustomerDetails_r17	37, 34, 7
23	<i>DocumentReference</i> in the <i>License</i> uses the new created <i>DocumentReferenceType</i> [Item #41]	Electricity_r17	41
24	<i>ElectricityServiceOrderType</i> reduced to <i>WorkType</i> (<i>ServiceOrderType</i> type) element with an attribute <i>@workSubType</i> (<i>ServiceOrderSubType</i> type) [Item #17]	Electricity_r17	17
25	<i>ServiceOrderType</i> enumerations replaced with full names instead of the abbreviations [Item #40]:	Electricity_r17	40

Chg No	Description	FileName	Item#
26	<i>SpecialReadReasonCode</i> removed and replaced with additional enumerations in the <i>ServiceOrderSubType</i> [Item #11]	Electricity_r17	11
27	<i>ServiceOrderSubType</i> changed to the following [Item #40]:	Electricity_r17	40
28	<i>ElectricityserviceOrderType</i> version number set to r17[Item: #40, #17, #11]	Electricity_r17	40, 17, 11
29	<i>MeterSerialNumber</i> removed and provided through the <i>ElectricityStandingData</i> Structure. [Item #12]	Electricity_r17	12
30	<i>ElectricityServiceOrderDetails</i> extended with the following elements: <ul style="list-style-type: none"> ○ <i>CustomerConsultationRequired</i> [Item #14] ○ <i>ServiceTime</i> [Item #14] ○ <i>SwitchingServiceRequired</i> [Item #5] ○ <i>ConfirmedDe-energisation</i> [Item #10] 	Electricity_r17	14, 5, 10
31	The following elements are removed from <i>ElectricityServiceOrderDetails</i> : <ul style="list-style-type: none"> ○ <i>MeterInstallationTypeCode</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #4]; ○ <i>DesiredNMISStatus</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #2]; ○ <i>NominatedResponsiblePerson</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #2] ○ <i>NominatedMeterProvider</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #2]; ○ <i>NMISstandingData</i> (Placed in the <i>ServiceOrderRequestData</i> abstract type instead) [Item #19] 	Electricity_r17	4, 2, 19
32	Forced choice between <i>MeteringType</i> and <i>OffPeakRequirements</i> and between <i>MaximumDemand</i> and <i>NMISstandingData</i> removed [Item #3]	Electricity_r17	3
33	<i>MeteringType</i> enumerations amended [Item #40]:	Electricity_r17	40
34	<i>InstallationType</i> enumerations amended to the following [Item #40]:	Electricity_r17	40
35	<i>SupplyPhase</i> enumerations [Item #40]:	Electricity_r17	40
36	<i>ServiceTimeType</i> enumerations [Item #10]:	Electricity_r17	10
37	Version attribute of <i>ElectricityServiceOrderDetails</i> : set to r17[Item #14, #12, #10, #40, #3, #19, #2, #5, #4] .	Electricity_r17	14, 12, 10, 40, 3, 19, 2, 5, 4
38	<i>Product</i> made mandatory in the <i>ElectricityServiceOrderNotificationData</i> . [Item #6]	Electricity_r17	6

Chg No	Description	FileName	Item#
39	<i>ExceptionCode</i> element in the <i>ElectricityServiceOrderNotificationData</i> data replaced with <i>ResponseCode</i> . [Item #20]	Electricity_r17	20]
40	<i>SORDResponseCode</i> type (used for the <i>ResponseCode</i> element) enumerations extended and corrected to the following [Item #40]	Electricity_r17	40
41	<i>ElectricityServiceOrderNotificationData</i> version attribute set to r17 [Item: #6, #20, #40]	Electricity_r17	6, 20, 40
42	<i>RequestID</i> removed from <i>ElectricityProvideMeterRequestData</i> ; <i>Transaction@transactionID</i> will be used for the same purpose. [Item #25]	Electricity_r17	25
43	<i>RequestPeriod</i> replaces <i>StartDate/EndDate</i> structure in <i>ElectricityProvideMeterRequestData</i> . It uses <i>OpenPeriod</i> type instead of <i>Period</i> to allow for optional <i>EndDate</i> . [Item #23]	Electricity_r17	23
44	<i>ElectricityProvideMeterRequestData</i> derived from <i>NMISTransactionBase</i> abstract type instead of <i>ElectricityStandingData</i> [Item#42]	Electricity_r17	42
45	<i>NMISStandingData</i> element of <i>NMISStandingData</i> type added to the <i>ElectricityProvideMeterRequestData</i> [Item#42].		
46	Version attribute of the <i>ElectricityProvideMeterRequestData</i> set to r17[Item: #25, #23, #42]	Electricity_r17	25, 23, 42
47	<i>InvestigationDescription</i> in the <i>ElectricityVerifyMeterRequestData</i> changed from optional to mandatory. [Item #28]	Electricity_r17	28
48	<i>RequestPeriod</i> become mandatory as per business requirements; It uses <i>OpenPeriod</i> type instead of <i>Period</i> to allow for optional <i>EndDate</i> . [Item #22]	Electricity_r17	22
49	<i>Current</i> element changed from mandatory to optional. [Item #30]	Electricity_r17	30
50	All elements in <i>ElectricityMeterReadData</i> type become mandatory as per business requirements. [Item #31]	Electricity_r17	31
51	<i>NMIConfiguration</i> added as a repeating element to the <i>ElectricityVerifyMeterRequestData</i> ; <i>NMIConfiguration</i> uses <i>ElectricityDataStreams</i> type [Item #26].	Electricity_r17	26
52	<i>Proposed</i> element removed from the <i>ElectricityVerifyMeterRequestData</i> . [Item #29]	Electricity_r17	29
53	<i>ElectricityVerifyMeterRequestData</i> derived from <i>NMISTransactionBase</i> abstract type instead of <i>ElectricityStandingData</i> . [Item#42]	Electricity_r17	42
54	<i>NMISStandingData</i> element of the <i>NMISStandingData</i> type added to the <i>ElectricityVerifyMeterRequestData</i> . [Item#42,]	Electricity_r17	42
55	Version attribute of the <i>ElectricityVerifyMeterRequestData</i> set to r17[Refer: #28, #22, #30, #31, #26, #29, #42]	Electricity_r17	28, 22, 30, 31, 26, 29, 42
56	r17 version added	Events_r17	All

Chg No	Description	FileName	Item#
57	<i>GasMeterVerifyRequestData</i> and <i>GasMeterVerifyResponseData</i> uses <i>NMITransactionBase</i> type instead of <i>NMISstandingData</i> [Item: #42]	Gas_r17	42
58	<i>VerifyRequestData</i> element in the <i>MeterDataVerifyRequest</i> type is based on <i>NMITransactionBase</i> type instead of <i>NMISstandingData</i> type. [Item: #42]	MeterDataManagem nt_r17	42
59	<i>VerifyResponseData</i> element in the <i>MeterDataVerifyResponse</i> type is based on <i>NMITransactionBase</i> type instead of <i>NMISstandingData</i> type. [Item: #42]	MeterDataManagem nt_r17	42
60	<i>MissingMeterData</i> element in the <i>MeterDataMissingNotification</i> type uses <i>NMITransactionBase</i> instead of <i>NMISstandingData</i> type [Item #32, #42]	MeterDataManagem nt_r17	32
61	<i>BlockNumber</i> , <i>LastBlockFlag</i> and <i>RequestID</i> removed from the <i>MeterDataNotification</i> type [Items #24& #25];	MeterDataManagem nt_r17	24& 25
62	<i>RequestID</i> is replaced with the <i>Transaction@transactionID</i> [Item #25];	MeterDataManagem nt_r17	25
63	<i>ParticipantRole</i> added to the transaction. It uses <i>RoleAssignment</i> type [Item #27]	MeterDataManagem nt_r17	27
64	Version attribute of the <i>MeterDataNotification</i> type set to r17 [Item: #24, #25, #27];	MeterDataManagem nt_r17	24, 25, 27
65	<i>MeterConfigData</i> type removed as it become obsolete. [Item #33]	MeterDataManagem nt_r17	33
66	<i>MeterConfigNotification</i> type removed as it is obsolete. [Item #33]	MeterDataManagem nt_r17	33
67	B2B fields <i>Comment</i> , <i>RequestID</i> , <i>Retailer</i> , <i>CustomerName</i> and <i>BusinessName</i> removed from <i>NMIDiscoveryRequest</i> . [Item #39]	NMIDataAccess_r17	39
68	Version attribute of <i>NMIDiscoveryRequest</i> transaction changed to r17. [Item #39]	NMIDataAccess_r17	39
69	<i>ServiceOrderType</i> made optional due to use of the <i>ServiceOrderHeader</i> in the <i>ServiceOrderResponse</i> transaction. [Item #9]	ServiceOrder_r17	9
70	<i>RetailerID</i> and <i>ProviderID</i> removed from the <i>ServiceOrderHeader</i> [Item #1].	ServiceOrder_r17	1
71	<i>ServiceOrderRequestData</i> abstract type extended with the <i>NMISstandingData</i> . [Item #19]	ServiceOrder_r17	19
72	<i>ActionType</i> 'Replace' added to the enumeration list. [Item #13]	ServiceOrder_r17	13
73	<i>ServiceOrderRequest</i> version attribute set to r17 [Item: #1, #19, #13]	ServiceOrder_r17	1, 19, 13
74	<i>ServiceOrderNotification</i> type renamed to <i>ServiceOrderResponse</i> . [Item #18]	ServiceOrder_r17	18
75	<i>CustomerDetail</i> replaced by <i>ContactDetail</i> in <i>ServiceOrderResponse</i> type. [Item #16]	ServiceOrder_r17	16
76	<i>ServicePoint</i> removed from the <i>ServiceOrderResponse</i> transaction type [Item #15]	ServiceOrder_r17	15

Chg No	Description	FileName	Item#
77	<i>Address</i> element uses <i>Address</i> type instead of <i>AddressWithStatus</i> in <i>ServiceOrderHeader</i> (<i>Address</i> element) [Item #7]	ServiceOrder_r17	7
78	<i>ServiceOrderResponse</i> transaction type version number set to r17 [Item: #18, #16, #15, #7]	ServiceOrder_r17	18, 16, 15, 7
79	<i>ServiceOrderResponse</i> transaction uses <i>ServiceOrderResponse</i> type. [Item #18]	Transaction_r17	18
80	Removed <i>MeterConfigNotification</i> transaction, as it is obsolete. [Item #33]	Transaction_r17	33
81	<i>AttendanceRequired</i> element in <i>License</i> type uses xsd:boolean instead of Yes/No [Item: #43]	Electricity_r17	43
82	Change <i>PhoneNumber</i> element in <i>CustomerDetail</i> to be of type <i>AustralianPhineNumber</i> instead of <i>AustralianPhoneNumberWithStatus</i> [Item: #7]	CustomerDetails_r17	7
83	<i>NominatedMeterProvider</i> type definition removed [Item: #2]	Electricity_r17	2
84	<i>GasMeterVerifyRequestData</i> version attribute changed to r17 [Item #40]:	Gas_r17	40
85	<i>GasStandingData</i> version attribute changed to r17 [Item #36]	Gas_r17	36
86	<i>BusinessName</i> type extended from 60 to 200 characters [Item #49]	CustomerDetails_r17	49
87	Created <i>BusinessNameTypeCode</i> type with enumerated list [Item #50]	CustomerDetails_r17	50
87	<i>BusinessName</i> type extended with <i>@businessNameTypeCode</i> attribute [Item #49]	CustomerDetails_r17	49
88	Removed <i>RequestID</i> and <i>Comment</i> from <i>NMIDiscoveryResponse</i> [Item #39]	NMIDataAccess_r17	39
89	Version attribute on <i>NMIDiscoveryResponse</i> transaction changed to r17 [Item #39]	NMIDataAccess_r17	39

2.5. Test

2.5.1 Test Platforms

The new schema has been tested using the following platforms as advised by ASWG:

- XMLSpy 5.3
- MSXML4 SP1
- Xerces 1.4.4 and 2.2.1

2.5.2 Test Cases

The following sample files were tested:

- CustomerDetailsNotification_SiteVacant_r17.xml
- CustomerDetailsNotification_Update_BusinessName_r17.xml
- CustomerDetailsNotification_Update_r17.xml
- CustomerDetailsNotification_Update_Response_r17.xml
- CustomerDetailsReconciliation_r17.xml

- CustomerDetailsRequest_Other_r17.xml
- CustomerDetailsRequest_r17.xml
- GasMeterDataVerifyRequest_r17.xml
- MeterDataMissingNotification_r17.xml
- MeterDataNotification_Consumption_r17.xml
- MeterDataNotification_Interval_r17.xml
- MeterDataVerifyRequest_basic_HighReading_r17.xml
- MeterDataVerifyRequest_Interval_NMIConfig_r17.xml
- ServiceOrderAppointmentNotification_r17.xml
- ServiceOrderRequest.Adds_n_Alts_r17.xml
- ServiceOrderRequest.Alloc_NMI_r17.xml
- ServiceOrderRequest.DeEnergise_r17.xml
- ServiceOrderRequest.MeterInvestigation_r17.xml
- ServiceOrderRequest.MeterReconfig_r17.xml
- ServiceOrderRequest.MeterReconfig_r17.xml
- ServiceOrderRequest.MeterReconfig_r17.xml
- ServiceOrderRequest.SpecialRead_r17.xml
- ServiceOrderRequest.SupplyAbolishment_r17.xml
- ServiceOrderRequest_Cancel.xml
- ServiceOrderRequest_Re-energisation_sc1.xml
- ServiceOrderRequest_Re-energisation_sc1_cancel.xml
- ServiceOrderRequestNewConnection_r17.xml
- ServiceOrderResponse_C_r17.xml
- ServiceOrderResponse_N_r17.xml
- ServiceOrderResponse_O_r17.xml
- ServiceOrderResponse_Re-energisation_sc1_cancel.xml
- SiteAccessDetails_r17.xml
- SiteAddressDetails_r17.xml

In addition, sample files from previous releases were tested against the proposed schema.

3. Proposal Assessment

3.1. Test

The ASWG ensures that all recommended parsers on relevant platforms can successfully validate the proposed schema.

3.1.1 Test Platforms

The new schema has been tested using the following platforms as advised by ASWG:

- XMLSpy 5.3
- MSXML4 SP1
- Xerces 1.4.4 and 2.2.1

3.1.2 Test Cases

All samples defined in section 2.5.2 were also tested by the ASWG.

3.2. Dependency analysis

Item#	Modified Types	Schema Filename	Versioned Element Impacted	Versioned Derived Type (xsi:type) Impacted
44	HazardCode	Common_r17	ServiceOrderRequest, SpecialReadRequest GasMeterNotification/MeterFix, GasMeterNotification/MIRNStatusUpdate	GasStandingData, GasStandingDataUpdate, SiteAccessDetails
40	IndexInvestigationCode	Common_r17	-	ElectricityVerifyMeterRequestData, GasMeterVerifyRequestData
40	MethodSent	Common_r17	-	ElectricityServiceOrderDetails
47	SafetyCertificateType	Common_r17	-	ElectricityServiceOrderDetails
7, 36	ServicePoint	Common_r17	ServiceOrderRequest, SpecialReadRequest GasMeterNotification/MeterFix, GasMeterNotification/MIRNStatusUpdate	GasStandingData, GasStandingDataUpdate,
34, 40	MovementType	CustomerDetail_r17	ServiceOrderRequest, ServiceOrderResponse, CustomerDetailsNotification, SpecialReadRequest, SpecialReadResponse	-
36	SiteAccessDetails	CustomerDetail_r17	-	SiteAccessDetails
49, 50	BusinessName	CustomerDetails_r17	ServiceOrderRequest ServiceOrderResponse CustomerDetailsNotification SpecialReadRequest SpecialReadResponse	ElectricityServiceOrderDetails
48	ConcessionCard	CustomerDetails_r17	CustomerDetailsNotification	-
48	CustomerData	CustomerDetails_r17	CustomerDetailsNotification	-

Schema Change Request
ASWG Change Management Process

Draft Version 2.0

Item#	Modified Types	Schema Filename	Versioned Element Impacted	Versioned Derived Type (xsi:type) Impacted
7	CustomerDetail	CustomerDetails_r17	ServiceOrderRequest, ServiceOrderResponse, CustomerDetailsNotification, SpecialReadRequest, SpecialReadResponse	-
37	CustomerDetailsNotification	CustomerDetails_r17	CustomerDetailsNotification	-
38	CustomerDetailsRequest	CustomerDetails_r17	CustomerDetailsRequest	-
	RequestReason	CustomerDetails_r17	CustomerDetailsRequest	-
8, 35	SiteAddressDetails	CustomerDetails_r17	AmendMeterRouteDetails	-
31	ElectricityMeterReadData	Electricity_r17	-	ElectricityVerifyMeterRequestData
2, 3, 4, 5, 10, 12, 14, 19	ElectricityServiceOrderDetails	Electricity_r17	-	ElectricityServiceOrderDetails
6, 20	ElectricityServiceOrderNotificationData	Electricity_r17	-	ElectricityServiceOrderNotificationData
11, 12, 17, 40	ElectricityServiceOrderType	Electricity_r17	-	ElectricityServiceOrderType
40	InstallationType	Electricity_r17	-	ElectricityServiceOrderDetails
43	License	Electricity_r17	-	ElectricityServiceOrderDetails
40	MeteringType	Electricity_r17	-	ElectricityServiceOrderDetails
40	ServiceOrderSubType	Electricity_r17	-	ElectricityServiceOrderType
40	SORDResponseCode	Electricity_r17	-	ElectricityServiceOrderNotificationData

Schema Change Request
ASWG Change Management Process

Draft Version 2.0

Item#	Modified Types	Schema Filename	Versioned Element Impacted	Versioned Derived Type (xsi:type) Impacted
23, 25, 42	ElectricityProvideMeterRequestData	MeterDataManagement_r17	-	ElectricityProvideMeterRequestData
22, 25, 26, 28, 29, 30, 42	ElectricityVerifyMeterRequestData	MeterDataManagement_r17	-	ElectricityVerifyMeterRequestData
25, 27	MeterDataNotification	MeterDataManagement_r17	MeterDataNotification	-
39	NMIDiscoveryRequest	NMIDataAccess_r17	NMIDiscoveryRequest	-
39	NMIDiscoveryResponse	NMIDataAccess_r17	NMIDiscoveryResponse	-
13, 40	ActionType	ServiceOrder_r17	ServiceOrderRequest SpecialReadRequest	-
1, 7, 9	ServiceOrderHeader	ServiceOrder_r17	ServiceOrderRequest ServiceOrderResponse SpecialReadRequest SpecialReadResponse	-
19	ServiceOrderRequestData	ServiceOrder_r17	ServiceOrderRequest ServiceOrderResponse SpecialReadRequest SpecialReadResponse	-
15, 16, 18	ServiceOrderResponse	ServiceOrder_r17	ServiceOrderResponse	-

3.3. Conformance Report

The ASWG completes the conformance report validating each proposed new schema file against the published aseXML guidelines.

Table 3-1, Change Proposal Conformance Details

Schema Filename	Impacted by Item #	Conformance Details
aseXML_r17	All	Conforms
Common_r17	40, 36, 7, 21,	Conforms
CustomerDetails_r17	35, 7, 8, 34, 36, 38, 37, 49, 50	Conforms
Electricity_r17	41, 17, 40, 11, 12, 14, 5, 10, 4, 2, 19, 3, 6, 20, 25, 23, 42, 28, 22, 30, 31, 26, 29, 43	Conforms
Events_r17	All	Conforms
Gas_r17	42, 40, 36	Conforms
MeterDataManagement_r17	42, 32, 24, 25, 27, 33	Conforms
NMIDataAccess_r17	39	Conforms
ServiceOrders_r17	9, 1, 19, 13, 18, 16, 15, 7	Conforms
Transactions_r17	18, 33	Conforms

4. Review Process

The ASWG assists developers with schema related queries and confirms appropriateness of development against criteria.

4.1. Description of Changes - Approved and Accepted

Table 4-1, Review Notes for proposed approvals

Item#	Review Notes	Status
5	<i>SwitchingServiceRequired</i> should use xsd:boolean (true/false) instead of proposed Yes/No as per aseXML Guidelines. [Refer 2.3.11]	Approved
10	<i>ConfirmedDe-energisation</i> should use xsd:boolean (true/false) instead of proposed Yes/No as per aseXML Guidelines. [Refer 2.3.11]	Approved
14	<i>CustomerConsultationRequired</i> should use xsd:boolean (true/false) instead of proposed Yes/No as per aseXML Guidelines. [Refer 2.3.11]	Approved
17	Rename <i>ServiceOrderType</i> element in <i>ElectricityServiceOrderType</i> to <i>WorkType</i> instead of <i>Type</i> ; Also, rename attribute <i>@subType</i> to <i>@workSubType</i> [Refer: 2.3.11]	Approved
21	Create <i>OpenPeriod</i> (instead of <i>PartialPeriod</i>) which has <i>BeginDate</i> mandatory and <i>EndDate</i> optional. Refer [2.3.8 & 2.3.11]	Approved
22	Change <i>RequestPeriod</i> element in <i>ElectricityVerifyMeterRequestData</i> from optional to mandatory; Make <i>OpenPeriod</i> of type <i>PartialPeriod</i> [Refer 2.3.11]	Approved
23	Replace <i>StartDate/EndDate</i> structure in <i>ElectricityProvideMeterRequestData</i> with <i>RequestPeriod</i> .Make <i>RequestPeriod</i> of type <i>OpenPeriod</i> [Refer 2.3.11]	Approved

Item#	Review Notes	Status
32	<p>Pros</p> <ul style="list-style-type: none"> • Resolves documentation issue for B2B procedure • Familiar to persons defining and reading the procedures • Name reflects fully the intent of the business process <p>Cons</p> <ul style="list-style-type: none"> • Duplication of transactions in schema • Non-convergence • Against the spirit of aseXML as defined in the schema, see section 2.7 paragraph 3 of the guidelines. (<i>‘Any party wishing to introduce new transactions to aseXML needs to ensure that there is not already an existing set of transactions that broadly covers the business process being addressed. Conversely, care should be taken in using existing transactions to enable similar but subtly different business processes that sufficient documentation exists of these differences.’</i>) • Agreement has been reached to remove aseXML transaction names from the procedure. • Future cost to change to achieve convergence. • Small benefit to dual fueler’s. • Overhead associated with increase in size of schema. <p>Over-arching principles</p> <ul style="list-style-type: none"> • AseXML a level of abstraction between the business process and the technical implementation. Therefore there is no need to match names between a business transaction and the technical implementation. <p>Based on the above, the ASWG decided to reuse the <u>MeterDataMissingNotification</u> transaction structure.</p> <p>Industry review response</p> <p>The industry review group disagrees with this assessment. The group considers that the transactions are distinctly different business processes, not just differently named. The electricity transaction is part of a request/response process and has different data requirements. That said, the group does not want to delay the change process in order to achieve this change.</p>	Rejected
40	<p>Enumeration ‘Recipient Not Responsible For The NMI’ added to IndexInvestigationCode just prior to schema release as the result of late addition to the B2B Build Pack. Enumeration format changed from that in Build Pack to all title case for consistency with other enumerations.</p> <p>Expected that the B2B Build Pack Review Group will update the Build Pack accordingly.</p>	Approved

Note: Item# is a reference to items listed in the Description of the proposed approval.

4.2. Impact assessments on Participant’s systems

The ASWG seeks the market participants’ input on the expected business and technical impacts.

4.2.1 Business Impact

4.2.2 Technical Impact

4.3. Supplied Documents

5. Resolution

The ASWG provides a resolution for each change item contained in the Approval Proposal. The resolution is forwarded to the Originator for implementation considerations as required by respective Change Management Process.

5.1. Changes Approved and Accepted

The ASWG compiles the list of change items proposed for approval together with their resolution status in the table below.

Table 5-1, Change Resolution

Item#	Resolution Notes	Status
1	Changed aseXML namespace to urn:aseXML:r17	Approved
2	r17 files included: Common_r17, CustomerDetails_r17, Electricity_r17, Events_r17, Gas_r17, MeterDataManagement_r17, NMIDataAccess_r17, ServiceOrders_r17, Transactions_r17.	Approved
3	Enumerations for <i>IndexInvestigationCode</i> updated	Approved
4	<i>MethodSent</i> enumerations amended [Item #40]:	Approved
5	<i>SiteHazard</i> type created with <i>Code</i> and <i>Description</i> elements[Item #36]	Approved
6	<i>HazardCodeWithAttribute</i> type removed [Item #36]	Approved
7	<i>Hazard</i> is repeating element in the <i>ServicePoint</i> type; It uses <i>SiteHazard</i> type. [Item #36]	Approved
8	<i>Address</i> element uses <i>Address</i> type instead of <i>AddressWithStatus</i> in <i>ServicePoint</i> (<i>Address</i> element) [Item #7]	Approved
9	<i>AddressWithStatus</i> type has been removed[Item #7]	Approved
10	<i>OpenPeriod</i> type created with <i>BeginDate</i> mandatory and <i>EndDate</i> optional [Item #21]	Approved
11	<i>CustomerType</i> and <i>EffectiveDate</i> have been removed from the <i>SiteAddressDetails</i> type[Item #35]	Approved
12	<i>AustralianPhoneNumberWithStatus</i> has been removed[Item #7]	Approved
13	<i>Address</i> element in the <i>SiteAddressDetails</i> type uses <i>Address</i> type instead of <i>AustralianAddress</i> type[Item #8]	Approved
14	<i>PostalAddress</i> element uses <i>Address</i> type instead of <i>AddressWithStatus</i> in <i>CustomerDetail</i> [Item #7]	Approved
15	<i>MovementType</i> enumerations amended with 'Site Vacant' [Item #34]; 'Move Out' and 'Move In' removed	Approved
16	<i>Hazard</i> is repeating element in the <i>SiteAccessDetails</i> type; It uses <i>SiteHazard</i> type. [Item #36]	Approved
17	Version number of <i>SiteAccessDetails</i> set to r17 [Item #36]	Approved
18	<i>RequestReason</i> type enumerations amended [Item #38]:	Approved
19	<i>Reason</i> made mandatory per business requirements [Item #38]	Approved
20	Version number of <i>CustomerDetailsRequest</i> set to r17. [Item #38]	Approved

Item#	Resolution Notes	Status
21	<i>ServicePoint</i> removed from the <i>CustomerDetailsNotification</i> [Item #3737]	Approved
22	Version number of <i>CustomerDetailsNotification</i> set to <i>r17</i> . [Item #37, #34, #7]	Approved
23	<i>DocumentReference</i> in the <i>License</i> uses the new created <i>DocumentReferenceType</i> [Item #41]	Approved
24	<i>ElectricityServiceOrderType</i> reduced to <i>WorkType</i> (<i>ServiceOrderType</i> type) element with an attribute <i>@workSubType</i> (<i>ServiceOrderSubType</i> type) [Item #17]	Approved
25	<i>ServiceOrderType</i> enumerations replaced with full names instead of the abbreviations [Item #40]:	Approved
26	<i>SpecialReadReasonCode</i> removed and replaced with additional enumerations in the <i>ServiceOrderSubType</i> [Item #11]	Approved
27	<i>ServiceOrderSubType</i> changed to the following [Item #40]:	Approved
28	<i>ElectricityserviceOrderType</i> version number set to <i>r17</i> [Item: #40, #17, #11]	Approved
29	<i>MeterSerialNumber</i> removed and provided through the <i>ElectricityStandingData</i> Structure. [Item #12]	Approved
30	<i>ElectricityServiceOrderDetails</i> extended with the following elements: <ul style="list-style-type: none"> ○ <i>CustomerConsultationRequired</i> [Item #14] ○ <i>ServiceTime</i> [Item #14] ○ <i>SwitchingServiceRequired</i> [Item #5] ○ <i>ConfirmedDe-energisation</i> [Item #10] 	Approved
31	The following elements are removed from <i>ElectricityServiceOrderDetails</i> : <ul style="list-style-type: none"> ○ <i>MeterInstallationTypeCode</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #4]; ○ <i>DesiredNMISStatus</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #2]; ○ <i>NominatedResponsiblePerson</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #2] ○ <i>NominatedMeterProvider</i> (The field will be obtained from <i>ElectricityStandingData</i> instead) [Item #2]; ○ <i>NMISstandingData</i> (Placed in the <i>ServiceOrderRequestData</i> abstract type instead) [Item #19] 	Approved
32	Forced choice between <i>MeteringType</i> and <i>OffPeakRequirements</i> and between <i>MaximumDemand</i> and <i>NMISstandingData</i> removed [Item #3]	Approved
33	<i>MeteringType</i> enumerations amended [Item #40]:	Approved
34	<i>InstallationType</i> enumerations amended to the following [Item #40]:	Approved
35	<i>SupplyPhase</i> enumerations [Item #40]:	Approved
36	<i>ServiceTimeType</i> enumerations [Item #10]:	Approved

Item#	Resolution Notes	Status
37	Version attribute of <i>ElectricityServiceOrderDetails</i> : set to r17[Item #14, #12, #10, #40, #3, #19, #2, #5, #4] .	Approved
38	<i>Product</i> made mandatory in the <i>ElectricityServiceOrderNotificationData</i> . [Item #6]	Approved
39	<i>ExceptionCode</i> element in the <i>ElectricityServiceOrderNotificationData</i> data replaced with <i>ResponseCode</i> . [Item #20]	Approved
40	<i>SORDResponseCode</i> type (used for the <i>ResponseCode</i> element) enumerations extended and corrected to the following [Item #40]	Approved
41	<i>ElectricityServiceOrderNotificationData</i> version attribute set to r17 [Item: #6, #20, #40]	Approved
42	<i>RequestID</i> removed from <i>ElectricityProvideMeterRequestData</i> ; <i>Transaction@transactionID</i> will be used for the same purpose. [Item #25]	Approved
43	<i>RequestPeriod</i> replaces <i>StartDate/EndDate</i> structure in <i>ElectricityProvideMeterRequestData</i> . It uses <i>OpenPeriod</i> type instead of <i>Period</i> to allow for optional <i>EndDate</i> . [Item #23]	Approved
44	<i>ElectricityProvideMeterRequestData</i> derived from <i>NMITransactionBase</i> abstract type instead of <i>ElectricityStandingData</i> [Item#42]	Approved
45	<i>NMIStandingData</i> element of <i>NMIStandingData</i> type added to the <i>ElectricityProvideMeterRequestData</i> [Item#42].	Approved
46	Version attribute of the <i>ElectricityProvideMeterRequestData</i> set to r17[Item: #25, #23, #42]	Approved
47	<i>InvestigationDescription</i> in the <i>ElectricityVerifyMeterRequestData</i> changed from optional to mandatory. [Item #28]	Approved
48	<i>RequestPeriod</i> become mandatory as per business requirements; It uses <i>OpenPeriod</i> type instead of <i>Period</i> to allow for optional <i>EndDate</i> . [Item #22]	Approved
49	<i>Current</i> element changed from mandatory to optional. [Item #30]	Approved
50	All elements in <i>ElectricityMeterReadData</i> type become mandatory as per business requirements. [Item #31]	Approved
51	<i>NMIConfiguration</i> added as a repeating element to the <i>ElectricityVerifyMeterRequestData</i> ; <i>NMIConfiguration</i> uses <i>ElectricityDataStreams</i> type [Item #26].	Approved
52	<i>Proposed</i> element removed from the <i>ElectricityVerifyMeterRequestData</i> . [Item #29]	Approved
53	<i>ElectricityVerifyMeterRequestData</i> derived from <i>NMITransactionBase</i> abstract type instead of <i>ElectricityStandingData</i> . [Item#42]	Approved
54	<i>NMIStandingData</i> element of the <i>NMIStandingData</i> type added to the <i>ElectricityVerifyMeterRequestData</i> . [Item#42,]	Approved
55	Version attribute of the <i>ElectricityVerifyMeterRequestData</i> set to r17[Refer: #28, #22, #30, #31, #26, #29, #42]	Approved
56	r17 version added	Approved
57	<i>GasMeterVerifyRequestData</i> and <i>GasMeterVerifyResponseData</i> uses <i>NMITransactionBase</i> type instead of <i>NMIStandingData</i> [Item: #42]	Approved

Item#	Resolution Notes	Status
58	<i>VerifyRequestData</i> element in the <i>MeterDataVerifyRequest</i> type is based on <i>NMITransactionBase</i> type instead of <i>NMISstandingData</i> type. [Item: #42]	Approved
59	<i>VerifyResponseData</i> element in the <i>MeterDataVerifyResponse</i> type is based on <i>NMITransactionBase</i> type instead of <i>NMISstandingData</i> type. [Item: #42]	Approved
60	<i>MissingMeterData</i> element in the <i>MeterDataMissingNotification</i> type uses <i>NMITransactionBase</i> instead of <i>NMISstandingData</i> type [Item #32, #42]	Approved
61	<i>BlockNumber</i> , <i>LastBlockFlag</i> and <i>RequestID</i> removed from the <i>MeterDataNotification</i> type [Items #24& #25];	Approved
62	<i>RequestID</i> is replaced with the <u><i>Transaction@transactionID</i></u> [Item #25];	Approved
63	<i>ParticipantRole</i> added to the transaction. It uses <i>RoleAssignment</i> type [Item #27]	Approved
64	Version attribute of the <i>MeterDataNotification</i> type set to r17 [Item: #24, #25, #27];	Approved
65	<i>MeterConfigData</i> type removed as it become obsolete. [Item #33]	Approved
66	<i>MeterConfigNotification</i> type removed as it is obsolete. [Item #33]	Approved
67	B2B fields <i>Comment</i> , <i>RequestID</i> , <i>Retailer</i> , <i>CustomerName</i> and <i>BusinessName</i> removed from <i>NMIDiscoveryRequest</i> . [Item #39]	Approved
68	Version attribute of <u><i>NMIDiscoveryRequest</i></u> transaction changed to r17. [Item #39]	Approved
69	<i>ServiceOrderType</i> made optional due to use of the <i>ServiceOrderHeader</i> in the <u><i>ServiceOrderResponse</i></u> transaction. [Item #9]	Approved
70	<i>RetailerID</i> and <i>ProviderID</i> removed from the <i>ServiceOrderHeader</i> [Item #1].	Approved
71	<i>ServiceOrderRequestData</i> abstract type extended with the <i>NMISstandingData</i> . [Item #19]	Approved
72	<i>ActionType</i> 'Replace' added to the enumeration list. [Item #13]	Approved
73	<i>ServiceOrderRequest</i> version attribute set to r17 [Item: #1, #19, #13]	Approved
74	<i>ServiceOrderNotification</i> type renamed to <i>ServiceOrderResponse</i> . [Item #18]	Approved
75	<i>CustomerDetail</i> replaced by <i>ContactDetail</i> in <i>ServiceOrderResponse</i> type. [Item #16]	Approved
76	<i>ServicePoint</i> removed from the <i>ServiceOrderResponse</i> transaction type [Item #15]	Approved
77	<i>Address</i> element uses <i>Address</i> type instead of <i>AddressWithStatus</i> in <i>ServiceOrderHeader</i> (<i>Address</i> element) [Item #7]	Approved
78	<i>ServiceOrderResponse</i> transaction type version number set to r17 [Item: #18, #16, #15, #7]	Approved
79	<u><i>ServiceOrderResponse</i></u> transaction uses <i>ServiceOrderResponse</i> type. [Item #18]	Approved

Item#	Resolution Notes	Status
80	Removed <u>MeterConfigNotification</u> transaction, as it is obsolete. [Item #33]	Approved
81	<i>AttendanceRequired</i> element in <i>License</i> type uses <code>xsd:boolean</code> instead of Yes/No [Item: #43]	Approved
82	Change <i>PhoneNumber</i> element in <i>CustomerDetail</i> to be of type <i>AustralianPhineNumber</i> instead of <i>AustralianPhoneNumberWithStatus</i> [Refer:2.3.9]	Approved
83	<i>NominatedMeterProvider</i> type definition removed [Refer: 2.3.11]	Approved
84	<i>GasMeterVerifyRequestData</i> version attribute changed to r17 [refer: 2.3.15]	Approved
85	<i>GasStandingData</i> version attribute changed to r17 [refer: 2.3.15]	Approved
86	<i>BusinessName</i> type extended from 60 to 200 characters [Item #49]	Approved
87	Created <i>BusinessNameTypeCode</i> type with enumerated list [Item #50]	Approved
87	<i>BusinessName</i> type extended with <code>@businessNameTypeCode</code> attribute [Item #49]	Approved
88	Removed <i>RequestID</i> and <i>Comment</i> from <u>NMIDiscoveryResponse</u> [Item #39]	Approved
89	Version attribute on <u>NMIDiscoveryResponse</u> transaction changed to r17 [Item #39]	Approved

Note: Item# is a reference to items listed in the Description of Changes - Approved and Accepted.