Schema Release

AseXML Schema Working Group

Release r36

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Document History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Authors** | **Comments** |
| 1.0 | 23/04/2017 | Wayne Lee | Initial draft |
| 1.1 | 25/07/2017 | Wayne Lee | Updated for Lifesupport under ElectricityServiceOrderDetails to be optional.  Update Meters under RemoteServiceData to be optional. |

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# Introduction

Version r36 of the aseXML schema has been developed from r35. This schema release is presented to aseXML Subscribers and Industry Participants for review and to AEMO for approval, in accordance with the ASWG Terms of Reference.

# Change Requests

The following ASWG Change Requests have been included in this schema release:

|  |  |
| --- | --- |
| **CR#** | **Description** |
| 60 | aseXML Schema Change Request |
|  |  |

These Change Requests are available from the ASWG or the aseXML website (<http://au.groups.yahoo.com/group/aseXMLTech/files/aseXML> Schemas/Schema Change Requests/) for review by all impacted parties.

# 

# Impact Summary

This table identifies the files, transactions and versioned types that are changed in this schema, where:

* Modified types - is a full list of types changed in this schema
* Derived types – is a list of any types that are derived from a modified type, and are therefore also modified by default
* Versioned types affected – is a list of all versioned types that will need to have the version attribute updated to use this schema
* Transactions potentially affected – is a list of all transactions that contain a modified type, either directly or via a type substitution
* Schema files affected – is a list of schema files that have been changed in some way for this schema.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modified types** | **Derived types** | **Versioned types affected** | **Transactions potentially affected** | **Schema files affected** |
|  |  |  |  | aseXML\_r34.xsd |
|  |  |  |  | Events\_r34.xsd |
| ServiceOrderType  ServiceOrderSubType  ElectricityMeter  ElectricityServiceOrderDetails  ElectricityMeterRegisterDetail | ElectricityMeter  ElectricityMeters | ElectricityStandingData  ServiceOrderRequestData | NMIDiscoveryResponse  NMIStandingDataResponse  CATSChangeRequest  CATSNotification  CATSDataRequest  ServiceOrderRequest  ServiceOrderResponse  AmendMeterRouteDetails  AccountCreationNotification  MeterReadInputNotification  SpecialReadRequest  SpecialReadResponse  NMIStandingDataUpdateNotification  CATSBulkDataRequest  MeterReadingReferenceDataResponse  ReportResponse | Electricity\_r36.xsd |
| ElectricityMasterStandingData |  | ElectricityStandingData | MeterDataVerifyRequest  MeterDataMissingNotification  NMIStandingDataResponse  NMIDiscoveryResponse  CATSChangeRequest  CATSNotification  CATSDataRequest  ReplicationNotification  ReportResponse | ElectricityMasterStandingData\_r36.xsd |
| ServiceOrderRequest  ServiceOrderResponse |  |  | ServiceOrderRequest  ServiceOrderResponse  SpecialReadRequest  SpecialReadResponse | ServiceOrder\_r36.xsd |
| CustomerDetail |  | GasServiceOrderDetails | ServiceOrderRequest  ServiceOrderResponse  CustomerDetailsNotification | CustomerDetails\_r36.xsd |

# File Change Summary

The following file changes are implemented to create the r36 schema version

## aseXML

* Changed aseXML namespace to urn:aseXML:r36

## Changes

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 | 1 | Updated schema namespace to ‘urn:aseXML:r36’.  Updated Transactions schema to Transactions\_r36.xsd  Updated CustomerDetails schema to CustomerDetails\_r36.xsd  Updated Electricity schema to Electricity\_r36.xsd  Updated ElectricityMasterStandingData schema to ElectricityMasterStandingData\_r36.xsd  Updated MeterDataManagement schema to MeterDataManagement\_r36.xsd  Updated Common schema to Common\_r36.xsd  Updated OneWayNotification schema to OneWayNotification\_r36.xsd  Updated ServiceOrder schema to ServiceOrder\_r36.xsd  Updated Events schema to Events\_r36.xsd  Updated Gas schema to Gas\_r36.xsd.  Added Peer to Peer schema as P2P\_r36.xsd  Added non versioned Electricity specific enumerations lists as ElectricityEnumerations.xsd  File version changed from r35 to r36. | aseXML\_r36 |
| 2 | 1 | Added r36 release identifier in the Event schema.  File version changed from r35 to r36. | Events\_r36 |
|  |  | Added the following complex types for new transactions.   * SiteAccessRequest * RemoteServiceResponse * RemoteServiceRequest * NoticeOfMeteringWorks * NotifiedParty * PlannedInterruptionNotification * MeterFaultAndIssueNotification * PTPDataExchange   File version changed from r34 to r36. | Transactions\_r36 |
|  |  | Added the following Complex Types for new transactions.   * SiteAccessRequest   Modified the following Complex Types   * CustomerDetail   + Added EmailAddress as EmailAddress type. * CustomerDetailsNotification (set to r36 version) * Product * Remove limit on Code element repeats.   File version changed from r34 to r36. | CustomerDetails\_r36.xsd |
|  |  | Added the following Simple Types   * DeviceSerialNumber * ControlEquipmentSerialNumber * ControlChannel * InstrumentTransformerSerialNumber * SwitchingServiceRequired type * RegisterIndexValue type   Added the following Complex Types   * NetworkDevices * NetworkDevice * ControlEquipments * ControlEquipment * InstrumentTransformer * InstrumentTransformers * ConnectedMeters type   Modified the following Simple types   * ServiceOrderType   + Add enumerated values   + Remove redundant enumerated values * ServiceOrderSubType * Add enumerated values * Remove redundant enumerated values * SORDResponseCode * Add enumerated values * Remove redundant enumerated values * SupplyPhase * Add enumerated values * MeteringType   + Remove enumerated list and set maximum length to 240 characters.   Modified the following Complex types   * ElectricityMeter   + Add SupplyPhase   + Add GenerationType   + Add InstrumentTransformers   + Add GeneralSupply as YesNo type   + Add ControlEquipments for where associated with the meter. * ElectricityServiceOrderDetails type (set to r36 version)   + Add MeterLicense   + Add De-energisationReason   + Add LifeSupport   + Add Co-ordinationRequired   + Modify SwitchingServiceRequired to be of type SwitchingServiceRequired as varchar(80) from boolean. * ElectricityMeterRegisterDetail   + Add RegisterIndexValue as type RegisterIndexValue * ElectricityVerifyMeterRequestData   + Modify InvestigationCode to be of type ElecIndexInvestigationCode * Change the version attribute of versioned type to r36: * ElectricityStandingData * ServiceOrderRequestData * ElectricityServiceOrderNotificationData * ElectricityServiceOrderType * ElectricityVerifyMeterRequestData   File version changed from r35 to r36. | Electricity\_r36.xsd |
|  |  | Modified the following Complex types   * ElectricityMasterStandingData * Add EnergisationStatus * Add PrimaryVoltage * Add ControlEquipments * Add NetworkDevices | ElectricityMasterStandingData\_r36.xsd |
|  |  | Added the following Simple Types   * RemoteServiceRequestCode. * RemoteServiceType. * UserDefinition * ResponseFormat. * ServiceRequestID.   Added the following Complex Types   * ResponsePayload. * RemoteServiceData. * RemoteServiceResponseData. * UserDefData. * MeterSerialNumbers.   Added the following Complex Types for new transactions   * RemoteServiceResponse * RemoteServiceRequest   File version changed from r33 to r36. | MeterDataManagement\_r36.xsd |
|  |  | Added the following Simple Types   * Latitude. * Longitude   Added the following Complex Types   * NotifiedParties. * GeographicCoordinate   Modified the following simple types   * Added enumeration values to IndexInvestigationCode * Verify/Missing Register * Require Estimate Data * Meter Churn   File version changed from r34 to r36. | Common\_r36.xsd |
|  |  | Added the following Simple Types   * NoticeOfWorksID as string. * NotificationNotes as string * NotificationStatus as string * Duration as string   Added the following Complex Types   * WorksDetail * NotificationPayload. * RemovedMeteringEquipments * RemovedMeteringEquipment * NewEquipment   Added the following Complex Types for new transactions   * NoticeOfMeteringWorks transaction. * NotifiedParty transaction. * PlannedInterruptionNotification * MeterFaultAndIssueNotification   File version changed from r33 to r36. | OneWayNotification\_r36.xsd |
|  |  | Modified the following Complex types   * ServiceOrderRequest (set to r36 version) * Add NotifiedParties * Add Co-ordinatingContactDetail * ServiceOrderResponse (set to r36 version)   Change the version attribute of versioned type to r36:   * ServiceOrderRequest * ServiceOrderResponse   File version changed from r33 to r36. | ServiceOrder\_r36.xsd |
|  |  | Added the following Simple Types   * EmailAddress as string type.   File version changed from r15 to r36. | ClientInformation\_r36.xsd |
|  |  | Modified the following Simple types   * TransactionGroup * Add enumerated values | Header\_r36.xsd |
|  |  | Added the following Simple types   * AttachmentName * AttachmentType   Added the following Complex types   * P2PAttachment * AttachmentList   Added the following Complex Types for new transactions   * PTPDataExchange | P2P\_r36.xsd |
|  |  | Modified the following Complex types   * GasServiceOrderDetails (set to r36 version)   File version changed from r33 to r36. | Gas\_r36.xsd |
|  |  | Added the following Simple Types   * SiteRequestReason (max 40 string) * ReasonForInter as string * ReasonForNotice as string * SupplyOff as string * WorkType as string. * EnergisationStatus * PrimaryVoltage Max 8 string. * GenerationType. Max 5 string. * MeterEquipmentType as string. * DeviceLocation as string. * ControlEquipmentType * InstrumentTransformerType. Max 2 string. * De-energisationReason * ElecIndexInvestigationCode | ElectricityEnumerations.xsd |

Table 2‑1 Change Log

### Schema change description

#### aseXML\_r36.xsd

* Updated schema namespace to ‘urn:aseXML:r36’.
* Updated Transactions schema to Transactions\_r36.xsd
* Updated CustomerDetails schema to CustomerDetails\_r36.xsd
* Updated Electricity schema to Electricity\_r36.xsd
* Updated MeterDataManagement schema to MeterDataManagement\_r36.xsd
* Updated Common schema to Common\_r36.xsd
* Updated OneWayNotification schema to OneWayNotification\_r36.xsd
* Updated ServiceOrder schema to ServiceOrder\_r36.xsd
* Updated Events schema to Events\_r36.xsd
* Updated Gas schema to Gas\_r36.xsd
* Add P2P\_r36.xsd
* Add ElectricityEnumerations.xsd

#### Events\_r36.xsd

* Add r36 release identifier

<xsd:simpleType name="r36">

<xsd:annotation>

<xsd:documentation>Purpose - Release r36 identifier.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="ReleaseIdentifier">

<xsd:enumeration value="r36"/>

</xsd:restriction>

</xsd:simpleType>

#### Transactions\_r36.xsd

* Modify Transaction complex type:
* Add SiteAccessRequest element
* Add RemoteServiceResponse element
* Add RemoteServiceRequest element
* Add NoticeOfMeteringWorks element
* Add NotifiedParty element

<xsd:element name="SiteAccessRequest" type="SiteAccessRequest"/>

…

<xsd:element name="RemoteServiceRequest" type="RemoteServiceRequest"/>

<xsd:element name="RemoteServiceResponse" type="RemoteServiceResponse"/>

…

<xsd:element name="NoticeOfMeteringWorks" type="NoticeOfMeteringWorks"/>

<xsd:element name="NotifiedParty" type="NotifiedParty"/>

<xsd:element name="PlannedInterruptionNotification" type="PlannedInterruptionNotification"/>

<xsd:element name="MeterFaultAndIssueNotification" type="MeterFaultAndIssueNotification"/>

…

<xsd:element name="PTPDataExchange" type="PTPDataExchange"/>

#### CustomerDetails\_r36.xsd

* Add SiteAccessRequest complex type as new transaction.

<xsd:complexType name="SiteAccessRequest">

<xsd:annotation>

<xsd:documentation>NEM - B2B Electricity: Transaction Group: SITE; Purpose: Request site access - National Electricity B2B Process - Tranche 1 Build Pack; VicGas: Not Used. </xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="NMI" type="NMI"/>

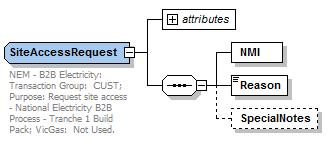
<xsd:element name="Reason" type="SiteRequestReason"/>

<xsd:element name="SpecialNotes" type="SpecialComments" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



* Modify CustomerDetail complex type
  + Add EmailAddress as type EmailAddress

<xsd:complexType name="CustomerDetail">

<xsd:annotation>

<xsd:documentation>Purpose - Defines the customer details for notification</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:choice>

<xsd:element name="PersonName" type="PersonName"/>

<xsd:sequence>

<xsd:element name="BusinessName" type="BusinessName"/>

<xsd:element name="ContactName" type="PersonName" minOccurs="0" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:choice>

<xsd:element name="PostalAddress" type="Address" minOccurs="0"/>

<xsd:element name="PhoneNumber" type="AustralianPhoneNumber" minOccurs="0" maxOccurs="unbounded"/>

<xsd:element name="EmailAddress" type="EmailAddress" minOccurs="0" maxOccurs="unbounded"/>

<!-- xsd:element name="SpecialCondition" type="SpecialCondition" minOccurs="0"/ insert after phone number -->

</xsd:sequence>

</xsd:complexType>

* Change the version attribute of versioned type to r36:
* CutomerDetailsNotification complex type

Change from: xsd:attribute name="version" type="r32" use="optional" default="r32"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>

* Modify Product complex type
  + Remove limit on occurrances of Code element

<xsd:complexType name="Product">

<xsd:sequence>

<xsd:element name="Code" maxOccurs="unbounded">

<xsd:simpleType>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="10"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:element>

</xsd:sequence>

</xsd:complexType>

#### Electricity\_r36.xsd

* Add DeviceSerialNumber simple type

<xsd:simpleType name="DeviceSerialNumber">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="12"/>

</xsd:restriction>

</xsd:simpleType>

* Add ControlEquipmentSerialNumber simple type

<xsd:simpleType name="ControlEquipmentSerialNumber">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="12"/>

</xsd:restriction>

</xsd:simpleType>

* Add ControlChannel simple type

<xsd:simpleType name="ControlChannel">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="12"/>

</xsd:restriction>

</xsd:simpleType>

* Add InstrumentTransformerSerialNumber simple type

<xsd:simpleType name="InstrumentTransformerSerialNumber">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="12"/>

</xsd:restriction>

</xsd:simpleType>

* Add SwitchingServiceRequired simple type

<xsd:simpleType name="SwitchingServiceRequired">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="80"/>

</xsd:restriction>

</xsd:simpleType>

* Add RegisterIndexValue simple type

<xsd:simpleType name="RegisterIndexValue">

<xsd:annotation>

<xsd:documentation>

Purpose - Meter Register Index value as standalone.

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="15"/>

</xsd:restriction>

</xsd:simpleType>

* Add NetworkDevices complex type.

<xsd:complexType name="NetworkDevices">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

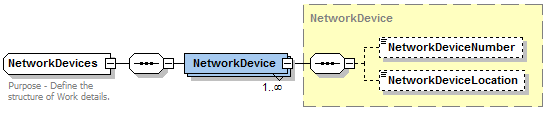
</xsd:annotation>

<xsd:sequence>

<xsd:element name="NetworkDevice" type="NetworkDevice" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>



* Add NetworkDevice complex type.

<xsd:complexType name="NetworkDevice">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure network device detail.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="NetworkDeviceNumber" type="DeviceSerialNumber" minOccurs="0"/>

<xsd:element name="NetworkDeviceLocation" type="DeviceLocation" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Add ControlEquipments complex type.

<xsd:complexType name="ControlEquipments">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

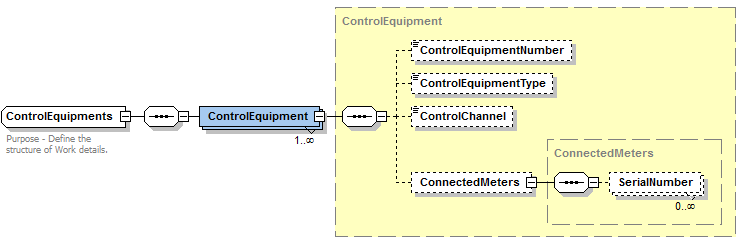
</xsd:annotation>

<xsd:sequence>

<xsd:element name="ControlEquipment" type="ControlEquipment" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>



* Add ControlEquipment complex type.

<xsd:complexType name="ControlEquipment">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Control Equipment detail.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="ControlEquipmentNumber" type="ControlEquipmentSerialNumber" minOccurs="0"/>

<xsd:element name="ControlEquipmentType" type="ControlEquipmentType" minOccurs="0"/>

<xsd:element name="ControlChannel" type="ControlChannel" minOccurs="0"/>

<xsd:element name="ConnectedMeters" type="ConnectedMeters" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Add InstrumentTransformers complex type.

<xsd:complexType name="InstrumentTransformers">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

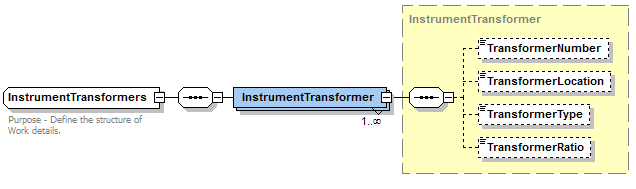
</xsd:annotation>

<xsd:sequence>

<xsd:element name="InstrumentTransformer" type="InstrumentTransformer" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>



* Add InstrumentTransformer complex type.

<xsd:complexType name="InstrumentTransformer">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Control Equipment detail.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="TransformerNumber" type="InstrumentTransformerSerialNumber" minOccurs="0"/>

<xsd:element name="TransformerType" type="InstrumentTransformerType" minOccurs="0"/>

<xsd:element name="TransformerRatio" type="MeterTransformerRatio" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Add ConnectedMeters complex type.

<xsd:complexType name="ConnectedMeters">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Control Equipment detail.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="SerialNumber" type="MeterSerialNumber" minOccurs="0" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>

* Modify ElectricityMeter complex type.
  + Add SupplyPhase element
  + Add GenerationType element
  + Add InstrumentTransformers element
  + Add GeneralSupply element
  + Add ControlEquipments element

<xsd:complexType name="ElectricityMeter">

<xsd:annotation>

<xsd:documentation>

Purpose - container for electricity meter information

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="SerialNumber" type="MeterSerialNumber" nillable="true" minOccurs="0"/>

<xsd:element name="NextScheduledReadDate" type="xsd:date" nillable="true" minOccurs="0"/>

<xsd:element name="Location" type="MeterLocation" nillable="true" minOccurs="0"/>

<xsd:element name="Hazard" type="MeterHazard" nillable="true" minOccurs="0"/>

<xsd:element name="InstallationTypeCode" type="MeterInstallationTypeCode" nillable="true" minOccurs="0"/>

<xsd:element name="Route" type="MeterRoute" nillable="true" minOccurs="0"/>

<xsd:element name="Use" type="MeterUse" nillable="true" minOccurs="0"/>

<xsd:element name="Point" type="MeterPoint" nillable="true" minOccurs="0"/>

<xsd:element name="Manufacturer" type="MeterManufacturer" nillable="true" minOccurs="0"/>

<xsd:element name="Model" type="MeterModel" nillable="true" minOccurs="0"/>

<xsd:element name="TransformerLocation" type="MeterTransformerLocation" nillable="true" minOccurs="0"/>

<xsd:element name="TransformerType" type="MeterTransformerType" nillable="true" minOccurs="0"/>

<xsd:element name="TransformerRatio" type="MeterTransformerRatio" nillable="true" minOccurs="0"/>

<xsd:element name="Constant" type="MeterConstant" nillable="true" minOccurs="0"/>

<xsd:element name="LastTestDate" type="xsd:date" nillable="true" minOccurs="0"/>

<xsd:element name="NextTestDate" type="xsd:date" nillable="true" minOccurs="0"/>

<xsd:element name="TestResultAccuracy" type="MeterTestResultAccuracy" nillable="true" minOccurs="0"/>

<xsd:element name="TestResultNotes" type="MeterTestResultNotes" nillable="true" minOccurs="0"/>

<xsd:element name="TestPerformedBy" type="MeterTestPerformedBy" nillable="true" minOccurs="0"/>

<xsd:element name="MeasurementType" type="MeterMeasurementType" nillable="true" minOccurs="0"/>

<xsd:element name="ReadTypeCode" type="MeterReadTypeCode" nillable="true" minOccurs="0"/>

<xsd:element name="RemotePhoneNumber" type="MeterRemotePhoneNumber" nillable="true" minOccurs="0"/>

<xsd:element name="CommunicationsEquipmentType" type="MeterCommunicationsEquipmentType" nillable="true" minOccurs="0"/>

<xsd:element name="CommunicationsProtocol" type="MeterCommunicationsProtocol" nillable="true" minOccurs="0"/>

<xsd:element name="DataConversion" type="MeterDataConversion" nillable="true" minOccurs="0"/>

<xsd:element name="DataValidations" type="MeterDataValidations" nillable="true" minOccurs="0"/>

<xsd:element name="Status" type="MeterStatusCode" minOccurs="0"/>

<xsd:element name="Program" type="MeterProgram" nillable="true" minOccurs="0"/>

<xsd:element name="AdditionalSiteInformation" type="MeterAdditionalSiteInformation" nillable="true" minOccurs="0"/>

<xsd:element name="EstimationInstructions" type="MeterEstimationInstructions" nillable="true" minOccurs="0"/>

<xsd:element name="AssetManagementPlan" type="MeterAssetManagementPlan" nillable="true" minOccurs="0"/>

<xsd:element name="CalibrationTables" type="MeterCalibrationTables" nillable="true" minOccurs="0"/>

<xsd:element name="UserAccessRights" type="MeterUserAccessRights" nillable="true" minOccurs="0"/>

<xsd:element name="Password" type="MeterPassword" nillable="true" minOccurs="0"/>

<xsd:element name="TestCalibrationProgram" type="MeterTestCalibrationProgram" nillable="true" minOccurs="0"/>

<xsd:element name="KeyCode" type="KeyCode" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerFundedMeter" type="CustomerFundedMeter" nillable="true" minOccurs="0"/>

<xsd:element name="DisplayType" type="DisplayType" nillable="true" minOccurs="0"/>

<xsd:element name="SupplyPhase" type="SupplyPhase" minOccurs="0"/>

<xsd:element name="GenerationType" type="GenerationType" minOccurs="0"/>

<xsd:element name="GeneralSupply" type="YesNo" minOccurs="0"/>

<xsd:element name="InstrumentTransformers" type="InstrumentTransformers" minOccurs="0"/>

<xsd:element name="ControlEquipments" type="ControlEquipments" nillable="true" minOccurs="0"/>

<xsd:element name="RegisterConfiguration" type="ElectricityMeterRegisterConfiguration" nillable="true" minOccurs="0"/>

<xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>

<xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Modify ElectricityServiceOrderDetails type (set to r36 version)
  + Add MeterLicense
  + Add De-energisationReason
  + Add LifeSupport
  + Add Co-ordinationRequired
  + Modify SwitchingServiceRequired to use SwitchingServiceRequired type, changing to varchar(80) from boolean.

<xsd:complexType name="ElectricityServiceOrderDetails">

<xsd:annotation>

<xsd:documentation>Purpose - Defines the data type for new connection and meter additions and alterations</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ServiceOrderRequestData">

<xsd:sequence>

<xsd:element name="CustomerConsultationRequired" type="xsd:boolean"/>

<xsd:element name="InstallationType" type="InstallationType" minOccurs="0"/>

<xsd:element name="SupplyPhase" type="SupplyPhase" minOccurs="0"/>

<xsd:element name="AverageDailyLoad" type="AveragedDailyLoad" minOccurs="0"/>

<xsd:element name="CustomerType" type="CustomerType" minOccurs="0"/>

<xsd:element name="MeteringType" type="MeteringType" minOccurs="0"/>

<xsd:element name="OffPeakRequirements" type="SpecialComments" minOccurs="0"/>

<xsd:element name="MaximumDemand" type="MeterDemand" minOccurs="0"/>

<xsd:element name="ServiceTime" type="ServiceTimeType" minOccurs="0"/>

<xsd:element name="SwitchingServiceRequired" type="SwitchingServiceRequired" minOccurs="0"/>

<xsd:element name="ConfirmedDe-energisation" type="xsd:boolean" minOccurs="0"/>

<xsd:element name="License" type="License" minOccurs="0"/>

<xsd:element name="MeterLicense" type="License" minOccurs="0"/>

<xsd:element name="De-energisationReason" type="De-energisationReason" minOccurs="0"/>

<xsd:element name="LifeSupport" type="YesNo" minOccurs="0"/>

<xsd:element name="Co-ordinationRequired" type="YesNo" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

* Modify ElectricityMeterRegisterDetail
* Add RegisterIndexValue element as type RegisterIndexValue

<xsd:complexType name="ElectricityMeterRegisterDetail">

<xsd:annotation>

<xsd:documentation>

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

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="RegisterID" type="MeterRegisterIdentifier" minOccurs="0"/>

<xsd:element name="NetworkTariffCode" type="NetworkTariffCode" nillable="true" minOccurs="0"/>

<xsd:element name="NetworkAdditionalInformation" type="MeterNetworkAdditionalInformation" nillable="true" minOccurs="0"/>

<xsd:element name="UnitOfMeasure" type="MeterUnitOfMeasure" nillable="true" minOccurs="0"/>

<xsd:element name="TimeOfDay" type="MeterTimeOfDay" nillable="true" minOccurs="0"/>

<xsd:element name="Multiplier" type="MeterMultiplier" nillable="true" minOccurs="0"/>

<xsd:element name="DialFormat" type="MeterDialFormat" nillable="true" minOccurs="0"/>

<xsd:element name="Suffix" type="NMIDataStreamSuffix" nillable="true" minOccurs="0"/>

<xsd:element name="ControlledLoad" type="MeterControlledLoad" nillable="true" minOccurs="0"/>

<xsd:element name="ConsumptionType" type="MeterConsumptionType" nillable="true" minOccurs="0"/>

<xsd:element name="Demand1" type="MeterDemand" nillable="true" minOccurs="0"/>

<xsd:element name="Demand2" type="MeterDemand" nillable="true" minOccurs="0"/>

<xsd:element name="Status" type="MeterRegisterStatusCode" nillable="true" minOccurs="0"/>

<xsd:element name="DirectionIndicator" type="DirectionIndicator" nillable="true" minOccurs="0"/>

<xsd:element name="PreviousReading" type="ElectricityMeterReadData" nillable="true" minOccurs="0"/>

<xsd:element name="HighLowConsumption" type="HighLowConsumption" nillable="true" minOccurs="0"/>

<xsd:element name="RegisterIndexValue" type="RegisterIndexValue" nillable="true" minOccurs="0"/>

<xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>

<xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Modify ServiceOrderType to add enumerated values
* Supply Service Works
* Metering Service Works
* Modify ServiceOrderType to remove redundant enumerated values
* New Connection
* Adds And Alts
* Allocate NMI
* Supply Abolishment
* Meter Investigation
* Metering Reconfiguration

<xsd:simpleType name="ServiceOrderType">

<xsd:annotation>

<xsd:documentation>Purpose - Defines a list of valid Service Order types supported by the particpants</xsd:documentation>

</xsd:annotation>

<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:enumeration value="Metering Service Works"/>

<xsd:enumeration value="Supply Service Works"/>

</xsd:restriction>

</xsd:simpleType>

* Modify ServiceOrderSubType to add enumerated values
* Allocate NMI
* Change Timeswitch Settings
* Disconnect at Pillar-Box Pit Or Pole-Top
* Establish Permanent Supply
* Establish Temporary In Permanent
* Establish Temporary Supply
* Local Meter Disconnection
* Meter Investigation-Inspect
* Meter Investigation-Test
* Meter Reconfiguration
* Move-in
* Physical Visit
* Recipient Discretion
* Remote
* Reseal Device
* Supply Abolishment
* Supply Alteration
* Tariff Change
* Temporary Isolation
* Temporary Isolation-Group Supply
* Modify ServiceOrderSubType to remove redundant enumeration values
* Change Controlled Load
* Change Tariff
* Change Timeswitch
* Inspect
* Install Hot Water
* Lab Test
* Meter Test
* Onsite Test
* Permanent
* Pillar-Box Pit Or Pole-Top
* Pillar-Box Pit Or Pole-Top (Non-Payment)
* Remove Fuse (Non-Payment)
* Sticker
* Tamper
* Temporary
* Temporary in Permanent
* Warning

<xsd:simpleType name="ServiceOrderSubType">

<xsd:annotation>

<xsd:documentation>Purpose - Defines a list of valid Service Order types supported by the particpants</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="Sticker Removal"/>~~

~~<xsd:enumeration value="New Reading Required"/>~~

~~<xsd:enumeration value="Warning"/>~~

~~<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="Change Controlled Load"/>~~

~~<xsd:enumeration value="Change Timeswitch"/>~~

~~<xsd:enumeration value="Change Tariff"/>~~

~~<xsd:enumeration value="Tamper"/>~~

~~<xsd:enumeration value="Inspect"/>~~

~~<xsd:enumeration value="Onsite Test"/>~~

~~<xsd:enumeration value="Lab Test"/>~~

~~<xsd:enumeration value="Meter Test"/>~~

<xsd:enumeration value="After Disconnection For Non-Payment"/>

<xsd:enumeration value="Remove Fuse"/>

<xsd:enumeration value="Disconnect at Pillar-Box Pit Or Pole-Top"/>

<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="Allocate NMI"/>

<xsd:enumeration value="Establish Permanent Supply"/>

<xsd:enumeration value="Establish Temporary Supply"/>

<xsd:enumeration value="Establish Temporary In Permanent"/>

<xsd:enumeration value="Local Meter Disconnection"/>

<xsd:enumeration value="Meter Investigation-Inspect"/>

<xsd:enumeration value="Meter Investigation-Test"/>

<xsd:enumeration value="Meter Reconfiguration"/>

<xsd:enumeration value="Recipient Discretion"/>

<xsd:enumeration value="Remote"/>

<xsd:enumeration value="Supply Abolishment"/>

<xsd:enumeration value="Supply Alteration"/>

<xsd:enumeration value="Tariff Change"/>

<xsd:enumeration value="Temporary Isolation"/>

<xsd:enumeration value="Temporary Isolation-Group Supply"/>

<xsd:enumeration value="Change Timeswitch Settings"/>

<xsd:enumeration value="Reseal Device"/>

<xsd:enumeration value="Retrospective Move-in"/>

<xsd:enumeration value="Move-in"/>

<xsd:enumeration value="New Reading Required"/>

<xsd:enumeration value="Physical Visit"/>

</xsd:restriction>

</xsd:simpleType>

* Modify SORDResponseCode to add enumerated values
* Tariff Change Not Approved
* Inadequate infrastructure
* No Comms
* Life Support
* Metering not compatible with proposed Tariff Change
* Shared Supply Point
* Site Already Energised
* Request Submitted By Another Initiator
* Initiator Cancellation
* Recipient Cancellation
* Modify SORDResponseCode to remove enumerated values
* Retailer Cancellation
* Service Provider Cancellation
* Request Submitted By Another Retailer

<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 Initiator"/>

<xsd:enumeration value="Initiator Cancellation"/>

<xsd:enumeration value="Sensitive Load"/>

<xsd:enumeration value="Recipient Cancellation"/>

<xsd:enumeration value="Unable To Access"/>

<xsd:enumeration value="Unknown Load"/>

<xsd:enumeration value="Unsafe"/>

<xsd:enumeration value="Tariff Change Not Approved"/>

<xsd:enumeration value="Inadequate infrastructure"/>

<xsd:enumeration value="No Comms"/>

<xsd:enumeration value="Life Support"/>

<xsd:enumeration value="Meter Not Retrieved"/>

<xsd:enumeration value="Metering not compatible with proposed Tariff Change"/>

<xsd:enumeration value="Shared Supply Point"/>

<xsd:enumeration value="Site Already Energised"/>

<xsd:enumeration value="Unknown Connection Status"/>

</xsd:restriction>

</xsd:simpleType>

* Modify SupplyPhase to add enumerated values
* Unknown
* Modify MeteringType to remove enumerated list

<xsd:simpleType name="MeteringType">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="240"/>

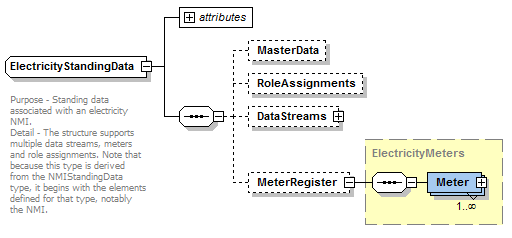
</xsd:restriction>

</xsd:simpleType>

Modify ElectricityStandingData (set to r36 version)

Change from: xsd:attribute name="version" type="r35" use="optional" default="r35"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>



Modify ElectricityServiceOrderNotificationData (set to r36 version)

Change from: xsd:attribute name="version" type="r17" use="optional" default="r17"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>

Modify ElectricityServiceOrderType (set to r36 version)

Change from: xsd:attribute name="version" type="r19" use="optional" default="r19"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>

Modify ElectricityVerifyMeterRequestData (set to r36 version)

Modify InvestigationCode to use ElecIndexInvestigationCode simple type from IndexInvestigationCode simple type.

Change from: xsd:attribute name="version" type="r17" use="optional" default="r17"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>

<xsd:complexType name="ElectricityVerifyMeterRequestData">

<xsd:annotation>

<xsd:documentation>Purpose - used in MeterDataVerifyRequest transaction based on NMITransactionBase </xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="NMITransactionBase">

<xsd:sequence>

<xsd:element name="NMIStandingData" type="NMIStandingData"/>

<xsd:element name="InvestigationCode" type="ElecIndexInvestigationCode"/>

<xsd:element name="InvestigationDescription" type="SpecialComments"/>

<xsd:element name="RequestPeriod" type="OpenPeriod"/>

<xsd:element name="Current" type="ElectricityMeterReadData" minOccurs="0"/>

<xsd:element name="NMIConfiguration" type="NMIConfigurationType" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

#### ElectricityMasterStandingData\_r36.xsd

* Modify ElectricityMasterStandingData complex type:
* Add EnergisationStatus element
* Add PrimaryVoltage element
* Add ControlEquipments element
* Add NetworkDevices element

<xsd:complexType name="ElectricityMasterStandingData">

<xsd:annotation>

<xsd:documentation>

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

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="JurisdictionCode" type="JurisdictionCode" nillable="true" minOccurs="0"/>

<xsd:element name="NMIClassificationCode" type="NMIClassificationCode" nillable="true" minOccurs="0"/>

<xsd:element name="TransmissionNodeIdentifier" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="DistributionLossFactorCode" type="DistributionLossFactorCode" nillable="true" minOccurs="0"/>

<xsd:element name="ParentEmbeddedNetworkIdentifier" type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="ChildEmbeddedNetworkIdentifier" type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="Address" type="AustralianPartialAddress" nillable="true" minOccurs="0"/>

<xsd:element name="Aggregate" type="YesNo" nillable="true" minOccurs="0"/>

<xsd:element name="Status" type="NMIStatusCode" nillable="true" minOccurs="0"/>

<xsd:element name="DistanceFromSubstation" type="DistanceFromSubstation" nillable="true" minOccurs="0"/>

<xsd:element name="VoltageType" type="VoltageType" nillable="true" minOccurs="0"/>

<xsd:element name="PoleNumber" type="PoleNumber" nillable="true" minOccurs="0"/>

<xsd:element name="AccessDetails" type="AccessDetail" nillable="true" minOccurs="0"/>

<xsd:element name="FeederClass" type="FeederClass" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerClassificationCode" type="EMSDCustomerClassificationCode" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerThresholdCode" type="EMSDCustomerThresholdCode" nillable="true" minOccurs="0"/>

<xsd:element name="ControlEquipments" type="ControlEquipments" nillable="true" minOccurs="0"/>

<xsd:element name="NetworkDevices" type="NetworkDevices" nillable="true" minOccurs="0"/>

<xsd:element name="EnergisationStatus" type="EnergisationStatus" nillable="true" minOccurs="0"/>

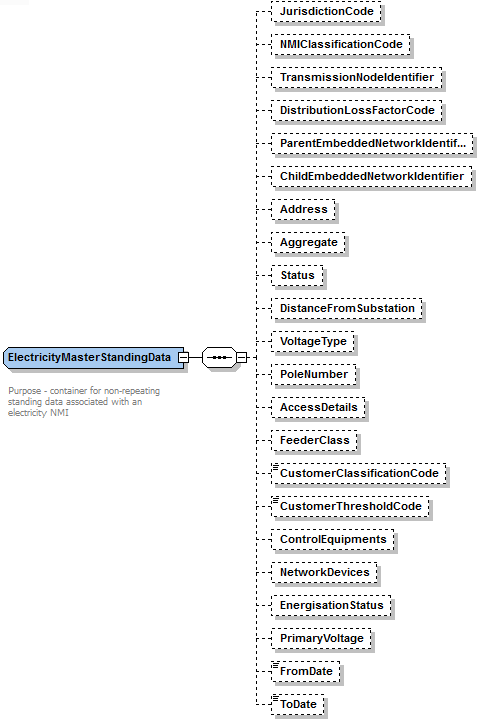
<xsd:element name="PrimaryVoltage" type="PrimaryVoltage" nillable="true" minOccurs="0"/>

<xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>

<xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>



#### MeterDataManagement\_r36.xsd

* Add ResponseFormat simple type.

<xsd:simpleType name="ResponseFormat">

<xsd:annotation>

<xsd:documentation>This element is used to define the Response payload format. eg CSV, XML, MDFF, BASE64</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="20"/>

</xsd:restriction>

</xsd:simpleType>

* Add RemoteServiceType simple type.

<xsd:simpleType name="RemoteServiceType">

<xsd:annotation>

<xsd:documentation>This element is used to define the RemoteService Type.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="40"/>

</xsd:restriction>

</xsd:simpleType>

* Add RemoteServiceRequestCode simple type.

<xsd:simpleType name="RemoteServiceRequestCode">

<xsd:annotation>

<xsd:documentation>This element is used to define the RemoteServiceRequest code.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="40"/>

</xsd:restriction>

</xsd:simpleType>

* Add UserDefinition simple type.

<xsd:simpleType name="UserDefinition">

<xsd:annotation>

<xsd:documentation>This element is used to define the User definitions as agreed between initiator and recipient.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="240"/>

</xsd:restriction>

</xsd:simpleType>

* Add ServiceRequestID simple type.

<xsd:simpleType name="ServiceRequestID">

<xsd:annotation>

<xsd:documentation>This element is used to define the Remote service request ID.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="15"/>

</xsd:restriction>

</xsd:simpleType>

* Add ResponsePayload complex type.

<xsd:complexType name="ResponsePayload">

<xsd:sequence>

<xsd:element name="RecordCount" type="RecordCount" minOccurs="0"/>

<xsd:element name="PayloadContent" type="xsd:anyType" nillable="true"/>

</xsd:sequence>

</xsd:complexType>

* Add MeterSerialNumbers complex type.

<xsd:complexType name="MeterSerialNumbers">

<xsd:annotation>

<xsd:documentation>Schema - RemoteService. Collection of affected Meters</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="MeterSerialNumber" type="MeterSerialNumber" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>

* Add UserDefData complex type.

<xsd:complexType name="UserDefData">

<xsd:annotation>

<xsd:documentation>Schema - RemoteService. User definitions block</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="UserDef1" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef2" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef3" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef4" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef5" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef6" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef7" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef8" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef9" type="UserDefinition" minOccurs="0"/>

<xsd:element name="UserDef10" type="UserDefinition" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Add RemoteServiceData complex type.

<xsd:complexType name="RemoteServiceData">

<xsd:annotation>

<xsd:documentation>Schema - RemoteService</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="RequestID" type="ServiceRequestID"/>

<xsd:element name="NMI" type="NMI"/>

<xsd:element name="Meters" type="MeterSerialNumbers" minOccurs="0"/>

<xsd:element name="ServiceType" type="RemoteServiceType"/>

<xsd:element name="RequestCode" type="RemoteServiceRequestCode"/>

<xsd:element name="ResponseFormat" type="ResponseFormat"/>

<xsd:element name="FromDateTime" type="xsd:dateTime" minOccurs="0"/>

<xsd:element name="ToDateTime" type="xsd:dateTime" minOccurs="0"/>

<xsd:element name="UserDef" type="UserDefData" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

* Add RemoteServiceResponseData complex type.

<xsd:complexType name="RemoteServiceResponseData">

<xsd:annotation>

<xsd:documentation>Schema - ServiceOrder</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

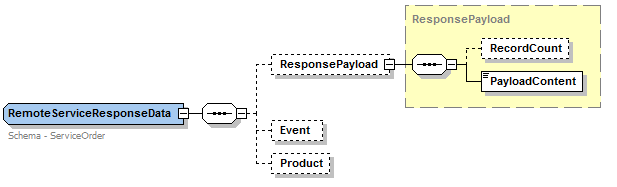
<xsd:element name="ResponsePayload" type="ResponsePayload" minOccurs="0"/>

<xsd:element name="Event" type="Event" minOccurs="0"/>

<xsd:element name="Product" type="Product" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>



* Add RemoteServiceRequest complex type as new transaction

<xsd:complexType name="RemoteServiceRequest">

<xsd:annotation>

<xsd:documentation>Prior to commencing the use of the Remote Service Process the Initiator and Recipient must agree the scope of the service(s) and the format of the response to the service request.

</xsd:documentation>

</xsd:annotation>

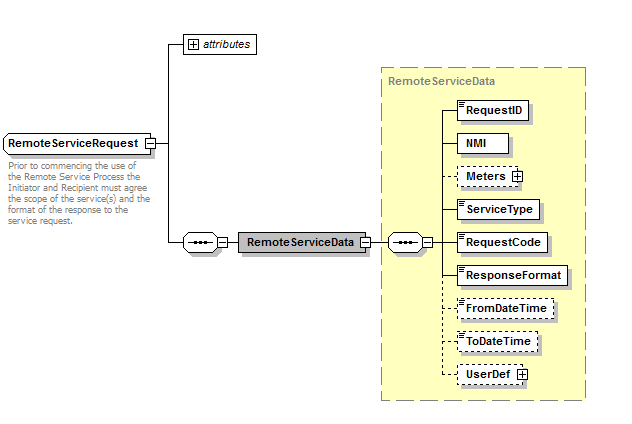
<xsd:sequence>

<xsd:element name="RemoteServiceData" type="RemoteServiceData"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



* Add RemoteServiceResponse complex type as new transaction\

<xsd:complexType name="RemoteServiceResponse">

<xsd:annotation>

<xsd:documentation>Prior to commencing the use of the Remote Service Process the Initiator and Recipient must agree the scope of the service(s) and the format of the response to the service request.

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

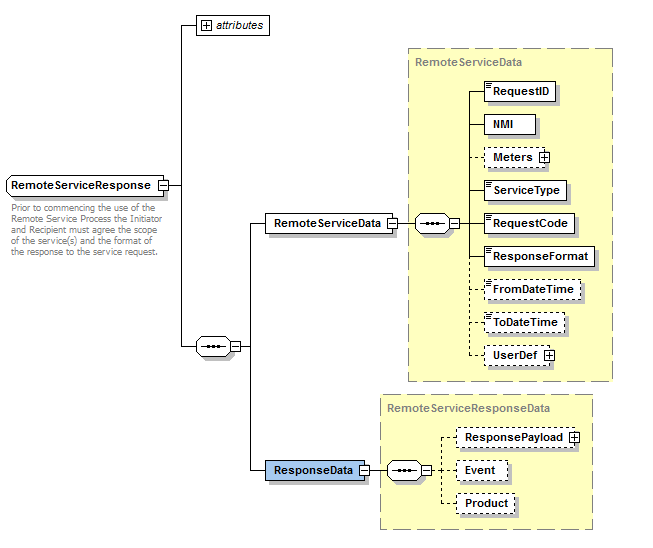
<xsd:element name="RemoteServiceData" type="RemoteServiceData"/>

<xsd:element name="ResponseData" type="RemoteServiceResponseData"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



#### Common\_r34.xsd

* Add Latitude simple type.

<xsd:simpleType name="Latitude">

<xsd:annotation>

<xsd:documentation>

Purpose - Provide geographic location coordinate.

Detail - Geographic latitude

The angular measurement North or South of the equator in decimal degrees (to 7 decimal places). Angles South of the equator will be represented as negative values. Eg -37.8886755

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:decimal">

<xsd:totalDigits value="9"/>

<xsd:fractionDigits value="7"/>

</xsd:restriction>

</xsd:simpleType>

* Add Longitude simple type

<xsd:simpleType name="Longitude">

<xsd:annotation>

<xsd:documentation>

Purpose – Provide geographic location coordinate.

Detail - Geographic longitude

The angular measurement East or West of the prime meridian in decimal degrees (to 7 decimal places). Angles East of the Prime Meridian (eg Australia) will be represented as positive values. Eg +145.1410361

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:decimal">

<xsd:totalDigits value="10"/>

<xsd:fractionDigits value="7"/> </xsd:restriction>

</xsd:simpleType>

* Add complex type GeographicCoordinate

<xsd:complexType name="GeographicCoordinate">

<xsd:annotation>

<xsd:documentation>

Purpose - Coordinates specification</xsd:documentation>

</xsd:annotation>

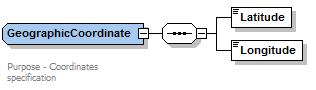
<xsd:sequence>

<xsd:element name="Latitude" type="Latitude"/>

<xsd:element name="Longitude" type="Longitude"/>

</xsd:sequence>

</xsd:complexType>



* Add NotifiedParties complex type.

<xsd:complexType name="NotifiedParties">

<xsd:annotation>

<xsd:documentation>

Purpose - List Notified parties</xsd:documentation>

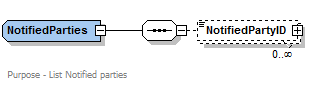
</xsd:annotation>

<xsd:sequence>

<xsd:element name="NotifiedPartyID" type="PartyIdentifier" minOccurs="0" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>



* Modify IndexInvestigationCode simple type by adding enumeration values:
* Verify/Missing Registers
* Require Estimate Read
* Meter Churn

<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:enumeration value="Cross Meter"/>

<xsd:enumeration value="MDL Out of Alignment"/>

<xsd:enumeration value="Verify/Missing Register"/>

<xsd:enumeration value="Require Estimate Data"/>

<xsd:enumeration value="Meter Churn"/>

</xsd:restriction>

</xsd:simpleType>

#### OneWayNotification\_r33.xsd

* Add NoticeOfWorksID simple type as string.

<xsd:simpleType name="NoticeOfWorksID">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="12"/>

</xsd:restriction>

</xsd:simpleType>

* Add NotificationNotes simple type as string

<xsd:simpleType name="NotificationNotes">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="240"/>

</xsd:restriction>

</xsd:simpleType>

* Add NotificationStatus simple type as string

<xsd:simpleType name="NotificationStatus">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="30"/>

<xsd:enumeration value="SO Requested"/>

<xsd:enumeration value="SO Rejected"/>

<xsd:enumeration value="SO Completion"/>

<xsd:enumeration value="Accepted by Notified Party"/>

<xsd:enumeration value="Rejection by Notified Party"/>

<xsd:enumeration value="Notified Party Stopped"/>

</xsd:restriction>

</xsd:simpleType>

* Add Duration simple type as string

<xsd:simpleType name="Duration">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="5"/>

</xsd:restriction>

</xsd:simpleType>

* Add RemovedMeteringEquipments complex type

<xsd:complexType name="RemovedMeteringEquipments">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="RemovedMeteringEquipment" type="RemovedMeteringEquipment" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>

* Add RemovedMeteringEquipment complex type

<xsd:complexType name="RemovedMeteringEquipment">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of removed equipment.</xsd:documentation>

</xsd:annotation>

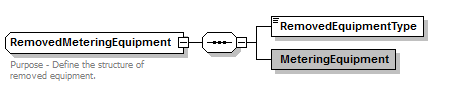
<xsd:sequence>

<xsd:element name="RemovedEquipmentType" type="MeterEquipmentType"/>

<xsd:element name="MeteringEquipment" type="NMIStandingData"/>

</xsd:sequence>

</xsd:complexType>



* Add NewEquipment complex type

<xsd:complexType name="NewEquipment">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="InstalledMeterEquipment" type="ElectricityMeters" minOccurs="0"/>

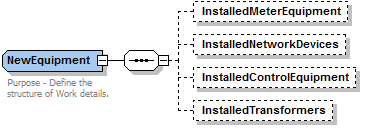
<xsd:element name="InstalledNetworkDevices" type="NetworkDevices" minOccurs="0"/>

<xsd:element name="InstalledControlEquipment" type="NMIStandingData" minOccurs="0"/>

<xsd:element name="InstalledTransformers" type="ElectricityMeters" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>



* Add WorksDetail complex type

<xsd:complexType name="WorksDetail">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="WorkType" type="WorkType"/>

<xsd:element name="FieldWorkCompleteDateTime" type="xsd:dateTime"/>

<xsd:element name="TotalInstalledMeters" type="xsd:integer" minOccurs="0"/>

<xsd:element name="TotalInstalledNetworkDevices" type="xsd:integer" minOccurs="0"/>

<xsd:element name="TotalInstalledControlEquipment" type="xsd:integer" minOccurs="0"/>

<xsd:element name="TotalInstalledTransformers" type="xsd:integer" minOccurs="0"/>

<xsd:element name="TotalRemovedMeters" type="xsd:integer" minOccurs="0"/>

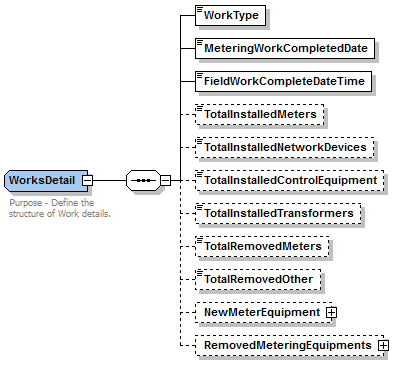
<xsd:element name="TotalRemovedOther" type="xsd:integer" minOccurs="0"/>

<xsd:element name="NewMeterEquipment" type="NewEquipment" minOccurs="0"/>

<xsd:element name="RemovedMeteringEquipments" type="RemovedMeteringEquipments" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>



* Add NotificationPayload complex type.

<xsd:complexType name="NotificationPayload">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:choice>

<xsd:element name="TransactionNotified" type="Transaction"/>

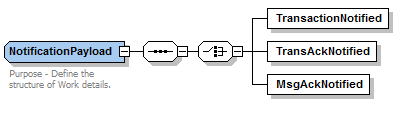
<xsd:element name="TransAckNotified" type="TransactionAcknowledgement"/>

<xsd:element name="MsgAckNotified" type="MessageAcknowledgement"/>

</xsd:choice>

</xsd:sequence>

</xsd:complexType>



* Add NoticeOfMeteringWorks complex type as new transaction.

<xsd:complexType name="NoticeOfMeteringWorks">

<xsd:sequence>

<xsd:element name="NoticeOfWorksID" type="NoticeOfWorksID"/>

<xsd:element name="NMIStandingData" type="NMIStandingData"/>

<xsd:element name="GeographicCoordinate" type="GeographicCoordinate" minOccurs="0"/>

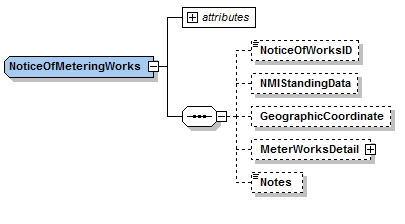
<xsd:element name="MeterWorksDetail" type="WorksDetail"/>

<xsd:element name="Notes" type="NotificationNotes" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



* Add NotifiedParty complex type as new transaction.

<xsd:complexType name="NotifiedParty">

<xsd:sequence>

<xsd:element name="ServiceOrder" type="ServiceOrderHeader"/>

<xsd:element name="ServiceRequestor" type="PartyIdentifier"/>

<xsd:element name="ServiceProvider" type="PartyIdentifier"/>

<xsd:element name="ScheduledDate" type="xsd:date"/>

<xsd:element name="ActualDateTime" type="xsd:dateTime" minOccurs="0"/>

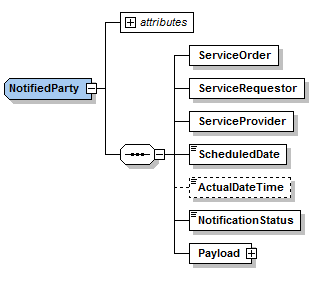
<xsd:element name="NotificationStatus" type="NotificationStatus"/>

<xsd:element name="RefTransaction" type="NotificationPayload"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



* Add PlannedInterruptionNotification complex type as new transaction.

<xsd:complexType name="PlannedInterruptionNotification">

<xsd:sequence>

<xsd:element name="NMI" type="NMI"/>

<xsd:element name="StartDate" type="xsd:date"/>

<xsd:element name="StartTime" type="xsd:time"/>

<xsd:element name="EndDate" type="xsd:date" minOccurs="0"/>

<xsd:element name="Duration" type="Duration"/

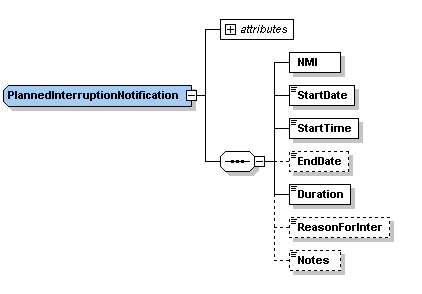
<xsd:element name="ReasonForInter" type="ReasonForInter" minOccurs="0"/>

<xsd:element name="Notes" type="NotificationNotes" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



* Add MeterFaultAndIssueNotification complex type as new transaction.

<xsd:complexType name="MeterFaultAndIssueNotification">

<xsd:sequence>

<xsd:element name="NMI" type="NMI"/>

<xsd:element name="DateIdentified" type="xsd:date"/>

<xsd:element name="StartDate" type="xsd:date" minOccurs="0"/>

<xsd:element name="StartTime" type="xsd:time" minOccurs="0"/>

<xsd:element name="EndDate" type="xsd:date" minOccurs="0"/>

<xsd:element name="Duration" type="Duration" minOccurs="0"/>

<xsd:element name="SupplyOn" type="YesNo"/>

<xsd:element name="SupplyOff" type="SupplyOff" minOccurs="0"/>

<xsd:element name="Meters" type="ElectricityMeters" minOccurs="0"/>

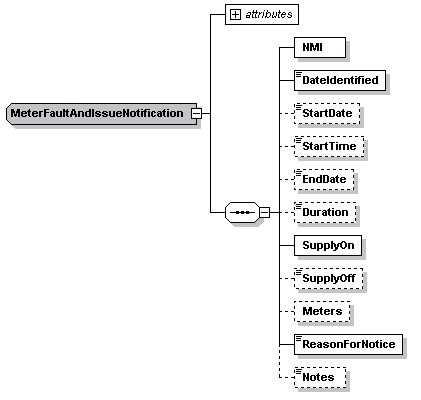
<xsd:element name="ReasonForNotice" type="ReasonForNotice"/>

<xsd:element name="Notes" type="NotificationNotes" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



#### ServiceOrder\_r33.xsd

* Modify ServiceOrderRequest complex type (set to r36 version)
  + Add NotifiedParties element
  + Add Co-ordinatingContactDetail element

<xsd:complexType name="ServiceOrderRequest">

<xsd:annotation>

<xsd:documentation>

Application - Service Order

TransactionExchange -

TransactionGroup - SORD

Priority - Medium

Purpose - Submit Service Order Request to the Service Provider

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="ServiceOrder" type="ServiceOrderHeader"/>

<xsd:element name="ServicePoint" type="ServicePoint" minOccurs="0"/>

<xsd:element name="ContactDetail" type="CustomerDetail" minOccurs="0"/>

<xsd:element name="CustomerDetail" type="CustomerDetail" minOccurs="0"/>

<xsd:element name="Co-ordinatingContactDetail" type="CustomerDetail" minOccurs="0"/>

<xsd:element name="AppointmentDetail" type="AppointmentDetail" minOccurs="0"/>

<xsd:element name="RequestData" type="ServiceOrderRequestData" minOccurs="0"/>

<xsd:element name="NotifiedParties" type="NotifiedParties" minOccurs="0"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

<xsd:attribute name="actionType" type="ActionType" default="New"/>

</xsd:complexType>

* Modify ServiceOrderResponse complex type (set to r36 version)
* Version change due to enumerations updates

<xsd:complexType name="ServiceOrderResponse">

<xsd:annotation>

<xsd:documentation>

Application - Service Order

TransactionExchange -

TransactionGroup - SORD

Priority - Medium

Purpose - Submit Service Order completion details to the Retailer

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="ServiceOrder" type="ServiceOrderHeader"/>

<xsd:element name="ContactDetail" type="CustomerDetail" minOccurs="0"/>

<xsd:element name="AppointmentDetail" type="AppointmentDetail" minOccurs="0"/>

<xsd:element name="NotificationData" type="ServiceOrderNotificationData" minOccurs="0"/>

<xsd:element name="Event" type="Event" minOccurs="0" maxOccurs="unbounded"/>

</xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

<xsd:attribute name="responseType" type="ResponseType" default="Closure"/>

</xsd:complexType>

* Change the version attribute of versioned type to r36:
* ServiceOrderRequest complex type
* ServiceOrderResponse complex type

Change from: xsd:attribute name="version" type="r17" use="optional" default="r17"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>

#### ClientInformation\_r36.xsd

* Add EmailAddress simple type (string).

<xsd:simpleType name="EmailAddress">

<xsd:annotation>

<xsd:documentation>

Purpose - Define email format.

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:pattern value="[^@]+@[^\.]+\..+"/>

</xsd:restriction>

</xsd:simpleType>

#### Header\_r36.xsd

* Modify TransactionGroup simple type by adding enumeration values:
* MRSR
* OWNX
* NPNX
* PTPE

<xsd:simpleType name="TransactionGroup">

<xsd:annotation>

<xsd:documentation>

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 "MSGS" should be used.

The following groups are B2B process related:

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

EMMS - Electricity Market Management System

ERFT-NSW-ACT Wholesale Transaction Type

IAIT-NSW-ACT Wholesale Transaction Type

MRSR - remote services request/response

OWNX - NOMW, PIN and MFN

NPNX - Notified Party transaction

PTPE - Peer to Peer bilateral exchange

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:enumeration value="CATS"/>

<xsd:enumeration value="MDMT"/>

<xsd:enumeration value="MSGS"/>

<xsd:enumeration value="NMID"/>

<xsd:enumeration value="FLTS"/>

<xsd:enumeration value="SORD"/>

<xsd:enumeration value="NETB"/>

<xsd:enumeration value="MTRD"/>

<xsd:enumeration value="CUST"/>

<xsd:enumeration value="NOTF"/>

<xsd:enumeration value="SITE"/>

<xsd:enumeration value="FLDW"/>

<xsd:enumeration value="OUTG"/>

<xsd:enumeration value="BAR"/>

<xsd:enumeration value="NMIF"/>

<xsd:enumeration value="MKTW"/>

<xsd:enumeration value="HSMD"/>

<xsd:enumeration value="OWNP"/>

<xsd:enumeration value="EMMS"/>

<xsd:enumeration value="ERFT"/>

<xsd:enumeration value="IAIT"/>

<xsd:enumeration value="MRSR"/>

<xsd:enumeration value="OWNX"/>

<xsd:enumeration value="NPNX"/>

<xsd:enumeration value="PTPE"/>

</xsd:restriction>

</xsd:simpleType>

#### P2P\_r36.xsd

* Add AttachmentName simple type

<xsd:simpleType name="AttachmentName">

<xsd:restriction base="xsd:string">

</xsd:restriction>

</xsd:simpleType>

* Add AttachmentType simple type

<xsd:simpleType name="AttachmentType">

<xsd:restriction base="xsd:string">

<xsd:maxLength value="30"/>

</xsd:restriction>

</xsd:simpleType>

* Add P2PAttachment complex type

<xsd:complexType name="P2PAttachment">

<xsd:annotation>

<xsd:documentation>Purpose - Define the attributes for each attachment.</xsd:documentation>

</xsd:annotation>

<xsd:attribute name="type" type="AttachmentType"/>

<xsd:attribute name="name" type="AttachmentName"/>

</xsd:complexType>

* Add AttachmentList complex type

<xsd:complexType name="AttachmentList">

<xsd:annotation>

<xsd:documentation>Purpose - Define the structure of Work details.</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="Attachment" type="P2PAttachment" minOccurs="0" maxOccurs="unbounded"/>

</xsd:sequence>

</xsd:complexType>

* Add PTPDataExchange complex type as new transaction.

<xsd:complexType name="PTPDataExchange">

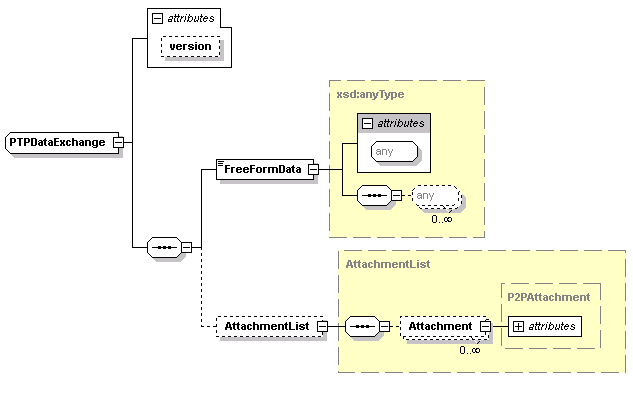
<xsd:sequence>

<xsd:element name="FreeFormData" type="xsd:anyType" nillable="true"/>

<xsd:element name="AttachmentList" type="AttachmentList" minOccurs="0"/> </xsd:sequence>

<xsd:attribute name="version" type="r36" use="optional" default="r36"/>

</xsd:complexType>



#### Gas\_r36.xsd

* Change the version attribute of versioned type to r36:
* GasServiceOrderDetails complex type

Change from: xsd:attribute name="version" type="r34" use="optional" default="r34"/>

Change to: <xsd:attribute name="version" type="r36" use="optional" default="r36"/>

#### ElectricityEnumerations.xsd

* Add SiteRequestReason simple type (max 40 character string).

<xsd:simpleType name="SiteRequestReason">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed Reasons used to request site access details

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="40"/>

<xsd:enumeration value="New Retailer for site"/>

<xsd:enumeration value="Records old and need to be updated"/>

<xsd:enumeration value="No Access details on file for NMI"/>

<xsd:enumeration value="No Hazard Details on file for NMI"/>

<xsd:enumeration value="Site Visit Required"/>

<xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

* Add ReasonForInter simple type as string

<xsd:simpleType name="ReasonForInter">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed Reasons for interruption

Version 1.0 additions

- Meter Exchange - Individual

- Meter Exchange - Rollout

- Meter Replacement – Family Maintenance

- Meter Test

- Meter Fault Investigation

- Distribution Works

- Other

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="50"/>

<xsd:enumeration value="Meter Exchange - Individual"/>

<xsd:enumeration value="Meter Exchange - Rollout"/>

<xsd:enumeration value="Meter Replacement – Family Maintenance"/>

<xsd:enumeration value="Meter Test"/>

<xsd:enumeration value="Meter Fault Investigation"/>

<xsd:enumeration value="Distribution Works"/> <xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

* Add ReasonForNotice simple type as string

<xsd:simpleType name="ReasonForNotice">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed Reasons for Notice

Version 1.0 additions

- Meter Family Failure

- Accuracy Failure

- Timeswitch/Controlled Load Failure

- Contactor Failure

- No Display

- Communication Failure

- Meter Verification

- Malfunction

- Area Event

- Metrology Threshold Breach

- Meter Bypassed

- Physical Damage

- Theft/Tampering

- Other

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="50"/>

<xsd:enumeration value="Meter Family Failure"/>

<xsd:enumeration value="Accuracy Failure"/>

<xsd:enumeration value="Timeswitch/Controlled Load Failure"/>

<xsd:enumeration value="Contactor Failure"/>

<xsd:enumeration value="No Display"/>

<xsd:enumeration value="Communication Failure"/>

<xsd:enumeration value="Meter Verification"/>

<xsd:enumeration value="Malfunction"/>

<xsd:enumeration value="Area Event"/>

<xsd:enumeration value="Metrology Threshold Breach"/>

<xsd:enumeration value="Meter Bypassed"/>

<xsd:enumeration value="Physical Damage"/>

<xsd:enumeration value="Theft/Tampering"/>

<xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

* Add SupplyOff simple type as string

<xsd:simpleType name="SupplyOff">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed Reasons for Notice

Version 1.0 additions

- Remove Fuse

- Remote

- Local Meter Disconnection

- Pillar-Box Pit Or Pole-Top

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="40"/>

<xsd:enumeration value="Remove Fuse"/>

<xsd:enumeration value="Remote"/>

<xsd:enumeration value="Local Meter Disconnection"/>

<xsd:enumeration value="Pillar-Box Pit Or Pole-Top"/> </xsd:restriction>

</xsd:simpleType>

* Add WorkType simple type as string.

<xsd:simpleType name="WorkType">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed work types for metering equipment works.

Version 1.0 additions

- Exchange Equipment

- Install Equipment

- Remove Equipment

- Relocate

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="50"/>

<xsd:enumeration value="Exchange Equipment"/>

<xsd:enumeration value="Install Equipment"/>

<xsd:enumeration value="Remove Equipment"/>

<xsd:enumeration value="Relocate"/>

</xsd:restriction>

</xsd:simpleType>

* Add EnergisationStatus simple type

<xsd:simpleType name="EnergisationStatus">

<xsd:annotation>

<xsd:documentation>

The energisation status of the metering installation

Version 1.0 additions

- Active

- Not Connected

- Deenergised Before Meter

- Deenergised At Meter

- Deenergised After Meter

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="30"/>

<xsd:enumeration value="Active"/>

<xsd:enumeration value="Not Connected"/>

<xsd:enumeration value="Deenergised Before Meter"/>

<xsd:enumeration value="Deenergised At Meter"/>

<xsd:enumeration value="Deenergised After Meter"/>

</xsd:restriction>

</xsd:simpleType>

* Add PrimaryVoltage simple type (Max 8 string).

<xsd:simpleType name="PrimaryVoltage">

<xsd:annotation>

<xsd:documentation>Indicates primary network voltage the metering installation is connected to

Version 1.0 additions

- 230V

- 400V

- 11KV

- 22KV

- 33KV

- 66KV

- 132KV

- Other HV

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="8"/>

<xsd:minLength value="1"/>

<xsd:enumeration value="230V"/>

<xsd:enumeration value="400V"/>

<xsd:enumeration value="11KV"/>

<xsd:enumeration value="22KV"/>

<xsd:enumeration value="33KV"/>

<xsd:enumeration value="66KV"/>

<xsd:enumeration value="132KV"/>

<xsd:enumeration value="Other HV"/>

</xsd:restriction>

</xsd:simpleType>

* Add GenerationType simple type (Max 5 string).

<xsd:simpleType name="GenerationType">

<xsd:annotation>

<xsd:documentation>

Indicates whether the meter is configured to measure the import of energy

Version 1.0 additions

- Net

- Gross

- None

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="5"/>

<xsd:enumeration value="Net"/>

<xsd:enumeration value="Gross"/>

<xsd:enumeration value="None"/>

</xsd:restriction>

</xsd:simpleType>

* Add MeterEquipmentType simple type (Max 25 string).

<xsd:simpleType name="MeterEquipmentType">

<xsd:annotation>

<xsd:documentation>

Indicates the meter equipment type

Version 1.0 additions

- Basic Meter

- Interval Meter

- Network Device

- Control Equipment

- Instrument Transformer

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="25"/>

<xsd:enumeration value="Basic Meter"/>

<xsd:enumeration value="Interval Meter"/>

<xsd:enumeration value="Network Device"/>

<xsd:enumeration value="Control Equipment"/>

<xsd:enumeration value="Instrument Transformer"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:schema>

* Add DeviceLocation simple type

<xsd:simpleType name="DeviceLocation">

<xsd:annotation>

<xsd:documentation>

Indicates the network device location

Version 1.0 additions

- Before Meter

- After Meter

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="14"/>

<xsd:enumeration value="Before Meter"/>

<xsd:enumeration value="After Meter"/>

</xsd:restriction>

</xsd:simpleType>

* Add ControlEquipmentType simple type

<xsd:simpleType name="ControlEquipmentType">

<xsd:annotation>

<xsd:documentation>

Indicates the control equipmeht type

Version 1.0 additions

- Internal Relay

- External Relay

- Internal Time Switch

- External Time Switch

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="25"/>

<xsd:enumeration value="Internal Relay"/>

<xsd:enumeration value="External Relay"/>

<xsd:enumeration value="Internal Time Switch"/>

<xsd:enumeration value="External Time Switch"/>

</xsd:restriction>

</xsd:simpleType>

* Add InstrumentTransformerType simple type (Max 2 string).

<xsd:simpleType name="InstrumentTransformerType">

<xsd:annotation>

<xsd:documentation>Indicates instrument transformer type for the meter

Version 1.0 additions

- CT

- VT

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="2"/>

<xsd:enumeration value="CT"/>

<xsd:enumeration value="VT"/>

</xsd:restriction>

</xsd:simpleType>

* Add De-energisationReason simple type

<xsd:simpleType name="De-energisationReason">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed Reasons used to request De-energisation

Version 1.0 additions

- Customer Requested

- Move Out

- Non-Payment (DNP)

- Unauthorised Usage (DNI)

- Illegal Usage

- No Access

- Safety

- Defect

- Site Works

- Breach of Contract

- Other

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:maxLength value="40"/>

<xsd:enumeration value="Customer Requested"/>

<xsd:enumeration value="Move Out"/>

<xsd:enumeration value="Non-Payment (DNP)"/>

<xsd:enumeration value="Unauthorised Usage (DNI)"/>

<xsd:enumeration value="Illegal Usage"/>

<xsd:enumeration value="No Access"/>

<xsd:enumeration value="Safety"/>

<xsd:enumeration value="Defect"/>

<xsd:enumeration value="Site Works"/>

<xsd:enumeration value="Breach of Contract"/>

<xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

* Add ElecIndexInvestigationCode simple type

<xsd:simpleType name="ElecIndexInvestigationCode">

<xsd:annotation>

<xsd:documentation>Schema - Elec</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="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="Other"/>

<xsd:enumeration value="Verify/Missing Register"/>

<xsd:enumeration value="Require Estimate Data"/>

<xsd:enumeration value="Meter Churn"/>

</xsd:restriction>

</xsd:simpleType>

# Schema Manifest

The table below shows the schema files included in this release. Files that have been added, removed or modified for this release are marked.

| File | Modified |
| --- | --- |
| Acknowledgements\_r15.xsd |  |
| aseXML\_r36.xsd | \* |
| BAR\_r31.xsd |  |
| BulkDataTool\_r33.xsd |  |
| CATSReports\_r33.xsd |  |
| CATSTableReplication\_r35.xsd |  |
| ClientInformation\_r36.xsd | \* |
| Common\_r36.xsd | \* |
| CustomerDetails\_r36.xsd | \* |
| CustomerTransfer\_r29.xsd |  |
| ElectricityEnumerations.xsd | \* |
| ElectricityHighSpeedMonitoring\_r2 |  |
| ElectricityMasterStandingData.xsd |  |
| ElectricityMMS\_r33.xsd |  |
| Electricity\_r36.xsd | \* |
| Enumerations.xsd |  |
| Events\_r36.xsd | \* |
| Faults\_r33.xsd |  |
| GasMarketWholesale\_r34.xsd |  |
| Gas\_r36.xsd | \* |
| Header\_r36.xsd | \* |
| HighSpeedMonitoring\_r33.xsd |  |
| MarketWholesale\_r20.xsd |  |
| MDMTReports\_r33.xsd |  |
| MeterDataManagement\_r36.xsd | \* |
| NetworkBilling\_r34.xsd |  |
| NMIDataAccess\_r33.xsd |  |
| NOSAssessment\_r28.xsd |  |
| NOSBooking\_r33.xsd |  |
| NOSCommon\_r28.xsd |  |
| NOSEquipment\_r33.xsd |  |
| OneWayNotification\_r36.xsd | \* |
| P2P\_r36.xsd | \* |
| Reports\_r34.xsd |  |
| ServiceOrder\_r36.xsd | \* |
| TableReplication\_r33.xsd |  |
| Transactions\_r36.xsd | \* |

# Schema Test

## Test Platforms

The new schema has been tested using the following platforms:

* XMLSpy 2010
* MSXML6
* Xerces 2.2.1 and 2.9.1

## Test

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

### Test Platforms

Supplied samples have been tested using the following parsers:

* MSXML 6.0
* Xerces 2.2.1
* Xerces 2.9.1
* XMLSpy 2010

### Test Cases

* NOTE: Sample filenames have been modified, where they contained a space in the name, as these failed Xerces validation

NEMB2B\_CustomerDetailsNotification\_SiteVacant\_r36.xml

NEMB2B\_CustomerDetailsNotification\_Update\_BusinessName\_r36.xml

NEMB2B\_CustomerDetailsNotification\_Update\_r36.xml

NEMB2B\_CustomerDetailsNotification\_Update\_Response\_r36.xml

NEMB2B\_CustomerDetailsReconciliation\_r36.xml

NEMB2B\_CustomerDetailsRequest\_Other\_r36.xml

NEMB2B\_CustomerDetailsRequest\_r36.xml

NEMB2B\_DisputeNotification\_vic\_a\_r36.xml

NEMB2B\_DisputeResponse\_vic\_a\_r36.xml

NEMB2B\_HSMMonitorData\_Request\_r36.xml

NEMB2B\_hsm\_capability.all.hsmdm\_r36.xml

NEMB2B\_hsm\_capability.normal.hsmdm\_gpupp\_r36.xml

NEMB2B\_hsm\_capability.selective.hsmdm\_r36.xml

NEMB2B\_hsm\_data.continuous.hsmdl\_r36.xml

NEMB2B\_hsm\_data.continuous.normal.hsmdl\_gpupp\_r36.xml

NEMB2B\_hsm\_data.triggered.hsmdl\_r36.xml

NEMB2B\_hsm\_data.triggered.normal.hsmdl\_gpupp\_r36.xml

NEMB2B\_hsm\_inventory.all.hsmdh\_r36.xml

NEMB2B\_hsm\_inventory.normal.hsmdh\_gpupp\_r36.xml

NEMB2B\_hsm\_inventory.selective.hsmdh\_r36.xml

NEMB2B\_hsm\_monitors\_statusall\_request\_r36.xml

NEMB2B\_hsm\_monitors\_statusrequest\_nil\_r36.xml

NEMB2B\_hsm\_monitors\_statusrequest\_r36.xml

NEMB2B\_hsm\_rollcall.all.hsmdh\_hsm\_r36.xml

NEMB2B\_hsm\_rollcall.normal.hsmdh\_gpupp\_r36.xml

NEMB2B\_hsm\_rollcall.selective.hsmdh\_hsm\_r36.xml

NEMB2B\_hsm\_triggers.all.hsmdm\_hsm\_r36.xml

NEMB2B\_hsm\_triggers.normal.hsmdm\_gpupp\_r36.xml

NEMB2B\_hsm\_triggers.selective.hsmdm\_hsm\_r36.xml

NEMB2B\_MeterDataMissingNotification\_r36.xml

NEMB2B\_MeterDataNotificationConsumption\_r36.xml

NEMB2B\_MeterDataNotification\_Consumption\_r36.xml

NEMB2B\_MeterDataNotification\_Interval\_r36.xml

NEMB2B\_MeterDataVerifyRequest\_basic\_HighReading\_r36.xml

NEMB2B\_MeterDataVerifyRequest\_Interval\_NMIConfig\_r36.xml

NEMB2B\_MeterFaultAndIssueNotification\_r36.xml

NEMB2B\_NoticeOfMeteringWorks\_r36.xml

NEMB2B\_NotifiedParty\_Ack\_r36.xml

NEMB2B\_NotifiedParty\_Rejection\_r36.xml

NEMB2B\_NotifiedParty\_Txn\_r36.xml

NEMB2B\_PlannedInterruptionNotification\_r36.xml

NEMB2B\_PTPDataExchange\_r36.xml

NEMB2B\_RemoteServiceRequest\_r36.xml

NEMB2B\_RemoteServiceResponse\_nonasexmlpayload\_r36.xml

NEMB2B\_RemoteServiceResponse\_r36.xml

NEMB2B\_ServiceOrderAppointmentNotification\_r36.xml

NEMB2B\_ServiceOrderRequest.Adds\_n\_Alts\_r36.xml

NEMB2B\_ServiceOrderRequest.Alloc\_NMI\_r36.xml

NEMB2B\_ServiceOrderRequest.DeEnergise\_r36.xml

NEMB2B\_ServiceOrderRequest.DeEnergise\_Simple\_r36.xml

NEMB2B\_ServiceOrderRequest.MeterInvestigation\_r36.xml

NEMB2B\_ServiceOrderRequest.MeterReconfig\_r36.xml

NEMB2B\_ServiceOrderRequest.Miscellaneous\_r36.xml

NEMB2B\_ServiceOrderRequest.ReEnergise\_r36.xml

NEMB2B\_ServiceOrderRequest.ReEnergise\_Simple\_r36.xml

NEMB2B\_ServiceOrderRequest.SpecialRead\_r36.xml

NEMB2B\_ServiceOrderRequest.SupplyAbolishment\_r36.xml

NEMB2B\_ServiceOrderRequestNewConnection\_r36.xml

NEMB2B\_ServiceOrderRequestNewConnection\_Simple\_r36.xml

NEMB2B\_ServiceOrderRequest\_Cancel\_r36.xml

NEMB2B\_ServiceOrderRequest\_Re-energisation\_sc1\_cancel\_r36.xml

NEMB2B\_ServiceOrderRequest\_Re-energisation\_sc1\_r36.xml

NEMB2B\_ServiceOrderResponse\_C\_r36.xml

NEMB2B\_ServiceOrderResponse\_N\_r36.xml

NEMB2B\_ServiceOrderResponse\_O\_r36.xml

NEMB2B\_ServiceOrderResponse\_Re-energisation\_sc1\_cancel\_r36.xml

NEMB2B\_ServiceOrderResponse\_Simple\_C\_r36.xml

NEMB2B\_SiteAccessDetails\_r36.xml

NEMB2B\_SiteAccessRequest\_r36.xml

NEMB2B\_SiteAddressDetails\_r36.xml

NEMB2B\_TransAck\_Rejection\_r36.xml

NEMMSATS\_\_NMIStandingDataRequest\_r36.xml

NEMMSATS\_C1\_METER\_REGISTER\_r36.xml

NEMMSATS\_catsm\_energyapbatch\_2501\_CustClass\_r36.xml

NEMMSATS\_catsm\_energyap\_5054\_CustClass\_r36.xml

NEMMSATS\_catsm\_generic\_C3\_request\_r36.xml

NEMMSATS\_catsm\_generic\_C4\_request\_r36.xml

NEMMSATS\_catsm\_generic\_noParameters\_response\_r36.xml

NEMMSATS\_catsm\_generic\_test\_response\_r36.xml

NEMMSATS\_catsm\_NMIStandingDataResponse\_r36.xml

NEMMSATS\_catsm\_poolnsw\_CR2501\_r36.xml

NEMMSATS\_catsm\_ReplicationNotificationAddress\_r36.xml

NEMMSATS\_catsm\_wbaympa\_C1\_NMI\_DATA\_CustClass\_r36.xml

NEMMSATS\_CATSNotification\_r36.xml

NEMMSATS\_CATSSDRTrafficLightReportResponse\_r36.xml

NEMMSATS\_CATSStandingDataQualityReportResponse\_r36.xml

NEMMSATS\_ChangeRequest2501\_r36.xml

NEMMSATS\_ChangeRequestAllFieldsMeterConfig\_r36.xml

NEMMSATS\_ChangeRequestAllFields\_r36.xml

NEMMSATS\_ChangeRequestMsgAck\_r36.xml

NEMMSATS\_ChangeRequestMsgTnsAck\_r36.xml

NEMMSATS\_ChangeRequestNotification\_seq03\_r36.xml

NEMMSATS\_ChangeRequestResponseBad\_seq02\_r36.xml

NEMMSATS\_ChangeRequestResponseGood\_seq002\_r36.xml

NEMMSATS\_ChangeRequestTnsAckErr\_r36.xml

NEMMSATS\_ChangeRequestTnsAck\_r36.xml

NEMMSATS\_ChangeRequest\_r36.xml

NEMMSATS\_ChangeRequest\_seq01\_r36.xml

NEMMSATS\_CustomerDetailsNotification\_MovementType\_r36.xml

NEMMSATS\_CustomerDetailsRequest\_RequestReason\_r36.xml

NEMMSATS\_DataRequestReplicationNotification\_r36.xml

NEMMSATS\_DataRequest\_r36.xml

NEMMSATS\_MDMReportRM11\_2\_r36.xml

NEMMSATS\_MDMReportRM11\_r36.xml

NEMMSATS\_MDMReportRM16\_2\_r36.xml

NEMMSATS\_MDMReportRM16\_r36.xml

NEMMSATS\_MDMReportRM20\_r36.xml

NEMMSATS\_MDMReportRM21\_r36.xml

NEMMSATS\_MDMReportRM26\_r36.xml

NEMMSATS\_MDMTMeterDataDeliveryReportResponse\_r36.xml

NEMMSATS\_MeterDataNotificationConsumptionMulti\_r36.xml

NEMMSATS\_MeterDataNotificationConsumption\_r36.xml

NEMMSATS\_MeterDataNotificationInterval\_r36.xml

NEMMSATS\_MeterDataNotificationProfile\_r36.xml

NEMMSATS\_MeterDataResponseConsumption\_r36.xml

NEMMSATS\_MsatsLimits\_r36.xml

NEMMSATS\_MsatsLimits\_ReportRequest\_r36.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_group\_r36.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_nogroup\_1\_r36.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_nogroup\_r36.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_r36.xml

NEMMSATS\_NMIDiscoveryRequestDPID\_r36.xml

NEMMSATS\_NMIDiscoveryRequestMeter\_2\_r36.xml

NEMMSATS\_NMIDiscoveryRequestMeter\_r36.xml

NEMMSATS\_NMIDiscoveryRequestType2\_r36.xml

NEMMSATS\_NMIDiscoveryRequestType3\_r36.xml

NEMMSATS\_NMIDiscoveryResponseErr\_r36.xml

NEMMSATS\_NMIDiscoveryResponse\_2\_r36.xml

NEMMSATS\_NMIDiscoveryResponse\_ITD\_r36.xml

NEMMSATS\_NMIDiscoveryResponse\_MCR\_TRM\_r36.xml

NEMMSATS\_NMIDiscoveryResponse\_NNS\_OTR\_SAB\_r36.xml

NEMMSATS\_NMIDiscoveryResponse\_r36.xml

NEMMSATS\_NMIDiscoveryResponse\_TRI\_r36.xml

NEMMSATS\_NMIStandingDataRequest\_r36.xml

NEMMSATS\_NMIStandingDataResponseMeterConfig\_r36.xml

NEMMSATS\_NMIStandingDataResponse\_2\_r36.xml

NEMMSATS\_NMIStandingDataResponse\_r36.xml

NEMMSATS\_ObjectionNotification\_seq06\_r36.xml

NEMMSATS\_Objection\_seq04\_r36.xml

NEMMSATS\_ParticipantSystemStatus\_ReportRequest\_01\_r36.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_01\_r36.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_02\_r36.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_03\_r36.xml

NEMMSATS\_ReplicationNotificationAddress\_r36.xml

NEMMSATS\_ReplicationNotificationCATSChangeResponse\_r36.xml

NEMMSATS\_ReplicationNotificationCATSStreamlinedCRCodes\_2\_r36.xml

NEMMSATS\_ReplicationNotificationCATSStreamlinedCRCodes\_r36.xml

NEMMSATS\_ReplicationNotificationEmbeddedNetworkIdentifiers\_r36.xml

NEMMSATS\_ReplicationNotificationMeterConfig\_r36.xml

NEMMSATS\_ReplicationNotificationMeter\_r36.xml

NEMMSATS\_ReplicationNotificationNetworkTariffCodes\_r36.xml

NEMMSATS\_ReplicationNotificationNMIRanges\_r36.xml

NEMMSATS\_ReplicationNotificationStandingDataAccessRules\_r36.xml

NEMMSATS\_ReportRequestChangeManagement\_r36.xml

NEMMSATS\_ReportRequestMaster\_r36.xml

NEMMSATS\_ReportRequestMeterConfig\_r36.xml

NEMMSATS\_ReportRequestNewParticipantAccess\_r36.xml

NEMMSATS\_ReportRequestNMIAudit\_r36.xml

NEMMSATS\_ReportRequestNMIDiscovery\_r36.xml

NEMMSATS\_ReportResponseChangeManagement\_r36.xml

NEMMSATS\_ReportResponseNMIAudit\_r36.xml

NEMMSATS\_ReportResponseNMIMasterMeterConfig\_r36.xml

NEMMSATS\_ReportResponseStatistics\_r36.xml

NEMMSATS\_SnapshotReportMasterDataStreams\_r36.xml

NEMMSATS\_WithdrawChangeRequest\_seq09\_r36.xml

NEMMSATS\_WithdrawObjectionNotification\_seq08\_r36.xml

NEMMSATS\_WithdrawObjection\_seq07\_r36.xml

NEMMSATS\_WithdrawRequestNotification\_seq10\_r36.xml

NEMWholesale\_emmsh\_63bigbigbig\_r36.xml

NEMWholesale\_emmsh\_r36.xml

NEMWholesale\_MMSIntermittentAvailability\_01\_r36.xml

NEMWholesale\_MMSIntermittentAvailability\_02\_r36.xml

NEMWholesale\_MMSIntermittentAvailability\_03\_r36.xml

NEMWholesale\_MMSIntermittentAvailability\_big\_r36.xml

NEMWholesale\_MMSWindAvailabilityRequest\_TooBig\_r36.xml

NEMWholesale\_NOSAck\_r36.xml

NEMWholesale\_NOSAssessmentInsertStatusInfoResponse\_r36.xml

NEMWholesale\_NOSAssessmentInsMultiOutageInfoResponse\_r36.xml

NEMWholesale\_NOSAssessmentUpdateIndoubtInfoResponse\_r36.xml

NEMWholesale\_NOSAssessmentUpdateNoteInfoResponse\_r36.xml

NEMWholesale\_NOSAssessmentWithdrawInfoResponse\_r36.xml

NEMWholesale\_NOSBookingDeleteOutageFromRepeating\_r36.xml

NEMWholesale\_NOSBookingInfoRequest\_r36.xml

NEMWholesale\_NOSBookingInfoResponse7276\_r36.xml

NEMWholesale\_NOSBookingInfoResponse\_r36.xml

NEMWholesale\_NOSBookingOutageActutalUpdate\_r36.xml

NEMWholesale\_NOSBookingResponse\_r36.xml

NEMWholesale\_NOSBookingWithAttachment\_r36.xml

NEMWholesale\_NOSBooking\_r36.xml

NEMWholesale\_NOSEquipmentInfoRequest\_r36.xml

NEMWholesale\_NOSEquipmentInfoResponse\_r36.xml

NEMWholesale\_NOSEquipmentResponse\_r36.xml

NEMWholesale\_NOSEquipmentSubmitType\_r36.xml

NEMWholesale\_NOSNAck\_r36.xml

NEMWholesale\_NOSValidCertainty\_r36.xml

NEMWholesale\_NOSValidResubmit\_r36.xml

NEMWholesale\_NOSWithDrawBooking\_r36.xml

NEMWholesale\_outghtransgpd\_valid\_r36.xml

NEMWholesale\_outghtransgpd\_valid\_resubmit\_r36.xml

NSWGAS\_AccountCreationNotification\_JGN\_r36.xml

NSWGAS\_AccountCreationNotification\_WWT\_r36.xml

NSWGAS\_AccountCreationNotification\_Mandatoryr36.xml

NSWGAS\_AccountCreationNotification\_Multmeter\_Mandatoryr36.xml

NSWGAS\_AmendSiteAccessDetails\_JGN\_r36.xml

NSWGAS\_AmendSiteAccessDetails\_WWT\_r36.xml

NSWGAS\_CATSChangeRequest\_ErrorCorrection\_r36.xml

NSWGAS\_CATSChangeRequest\_MoveIn\_r36.xml

NSWGAS\_CATSChangeRequest\_r36.xml

NSWGAS\_CATSChangeRequest\_txn214\_r36.xml

NSWGAS\_CATSDataRequest\_2\_r36.xml

NSWGAS\_CATSDataRequest\_r36.xml

NSWGAS\_CATSNotification-COM\_to\_DB\_error\_correction\_WWT\_r36.xml

NSWGAS\_CATSNotification-COM\_to\_DB\_WWT\_r36.xml

NSWGAS\_CATSNotification-COM\_r36.xml

NSWGAS\_CATSNotification-PEN\_r36.xml

NSWGAS\_CATSNotification\_txn219\_r36.xml

NSWGAS\_CATSObjectionRequest\_-DB\_r36.xml

NSWGAS\_CATSObjectionRequest\_r36.xml

NSWGAS\_CustomerDetailsNotification\_r36.xml

NSWGAS\_ERFTTotalGasInjectedNotification\_WWT\_r36.xml

NSWGAS\_ERFTTotalGasInjectedNotification\_r36.xml

NSWGAS\_FieldWorkNotification\_r36.xml

NSWGAS\_IAIT\_ImbalanceTradeRequest\_r36.xml

NSWGAS\_IAIT\_ParticipantImbalanceAmountRequest\_r36.xml

NSWGAS\_LinepackAndUnaccountedForGasData\_WWT\_r36.xml

NSWGAS\_LinepackAndUnaccountedForGasData\_r36.xml

NSWGAS\_MarkeReport\_T2130HeatingValueDailyRpt\_r36.xml

NSWGAS\_MarketReport\_-\_BasicConsumptionRpt\_int874\_r36.xml

NSWGAS\_MarketReport\_-\_ChangeOfStandingData\_int803\_r36.xml

NSWGAS\_MarketReport\_-\_CustomerChurnRpt\_int886\_r36.xml

NSWGAS\_MarketReport\_-\_DailyNSLRpt\_int871\_r36.xml

NSWGAS\_MarketReport\_-\_EstimationResultsToNWORpt\_r36.xml

NSWGAS\_MarketReport\_-\_EstimationResultsToUserRpt\_int804\_r36.xml

NSWGAS\_MarketReport\_-\_MeterReadingToUserNonSTTMRpt\_int854a\_r36.xml

NSWGAS\_MarketReport\_-\_MeterReadingToUserRpt\_int854\_r36.xml

NSWGAS\_MarketReport\_-\_ReconciliationResultsRpt\_int802\_r36.xml

NSWGAS\_MarketReport\_-\_RevisedEstimationResultsToNWORpt\_r36.xml

NSWGAS\_MarketReport\_-\_RevisedEstimationResultsToUserRpt\_int805\_r36.xml

NSWGAS\_MarketReport\_-\_TotalGasInjectedRpt\_int811\_r36.xml

NSWGAS\_MarketReport\_ApportionmentPercentageRpt\_int809\_r36.xml

NSWGAS\_MarketReport\_DailyToUserRpt\_int812\_r36.xml

NSWGAS\_MarketReport\_DPRExtractRpt\_r36.xml

NSWGAS\_MarketReport\_EffectiveDegreeDayRpt\_int891\_r36.xml

NSWGAS\_MarketReport\_ERFTReconciliationResultsRpt\_r36.xml

NSWGAS\_MarketReport\_ExpiredImbalanceTradeRpt\_int817\_r36.xml

NSWGAS\_MarketReport\_MatchedImbalanceTradeRpt\_int816\_r36.xml

NSWGAS\_MarketReport\_MonthlyToUserRpt\_int814\_r36.xml

NSWGAS\_MarketReport\_ParticipantImbalanceAmountRpt\_int818\_r36.xml

NSWGAS\_MarketReport\_RevisedImbalanceRpt\_int815\_r36.xml

NSWGAS\_MarketReport\_T2270TotalCLPRpt\_int828\_r36.xml

NSWGAS\_MarketReport\_T2275TotalCLPRpt\_r36.xml

NSWGAS\_MarketReport\_T298NewStreetListingRpt\_r36.xml

NSWGAS\_MarketReport\_T299CompleteMIRNListingRpt\_r36.xml

NSWGAS\_MarketReport\_WeeklyToUserRpt\_int813\_r36.xml

NSWGAS\_MeterDataNotification\_to\_AEMO\_Basic\_meters\_r36.xml

NSWGAS\_MeterDataNotification\_to\_AEMO\_Interval\_meters\_r36.xml

NSWGAS\_MeterDataNotification\_r36.xml

NSWGAS\_MeterDataResponse\_r36.xml

NSWGAS\_MeterDataVerifyRequest\_JGN\_r36.xml

NSWGAS\_MeterDataVerifyRequest\_WWT\_r36.xml

NSWGAS\_MeterDataVerifyResponse\_JGN\_r36.xml

NSWGAS\_MeterDataVerifyResponse\_WWT\_r36.xml

NSWGAS\_MeterFix\_JGN\_r36.xml

NSWGAS\_MeterFix\_WWT\_r36.xml

NSWGAS\_MeterNotificationMIRNStatusUpdate\_r36.xml

NSWGAS\_MeterReadInputNotification\_(MMSD)\_r36.xml

NSWGAS\_MeterReadInputNotification\_r36.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffA\_r36.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffB\_r36.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffD\_WWT\_r36.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffV\_WWT\_r36.xml

NSWGAS\_NMIDiscoveryResponse\_JGN\_r36.xml

NSWGAS\_NMIDiscoveryResponse\_WWT\_r36.xml

NSWGAS\_NMIStandingDataRequest\_-\_JGN\_r36.xml

NSWGAS\_NMIStandingDataResponse\_JGN\_r36.xml

NSWGAS\_NMIStandingDataResponse\_WWT\_r36.xml

NSWGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r36.xml

NSWGAS\_ServiceOrderRequest\_MFX\_example\_-\_JGN\_r36.xml

NSWGAS\_ServiceOrderRequest\_MFX\_example\_-\_WWT\_r36.xml

NSWGAS\_ServiceOrderResponse\_completion\_WWT\_r36.xml

NSWGAS\_ServiceOrderResponse\_initial\_WWT\_r36.xml

NSWGAS\_ServiceOrderResponse\_NoAcess(special\_read)\_r36.xml

NSWGAS\_TransAck\_Accept\_r36.xml

SAWAGAS\_GasMeterNotification\_MeterFix\_SAGAS\_r36.xml

SAWAGAS\_GasMeterNotification\_MeterFix\_WAGAS\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_HeatingRate\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_ECNET\_CU\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_TFR\_CU\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DCN\_GasZone\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DCN\_MeterType\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DIS\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_ECNET\_CU\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_ECNET\_NO\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_NDP\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_PR\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_REC\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_SU\_CU\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_TFR\_CU\_r36.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_TFR\_NO\_r36.xml

VICGAS\_AccCreationNotification\_r36.xml

VICGAS\_AmendMeterRouteDetails(RouteChange)\_r36.xml

VICGAS\_AmendMeterRouteDetails(SiteAccess)\_r36.xml

VICGAS\_AmendMeterRouteDetails(SiteAddress)\_r36.xml

VICGAS\_CATSChangeAlertToNFRO\_r36.xml

VICGAS\_CATSChangeAlertToVENCorp\_r36.xml

VICGAS\_CATSChangeRequestAlternateRetro\_r36.xml

VICGAS\_CATSChangeRequestAlternate\_r36.xml

VICGAS\_CATSChangeRequestRetro\_r36.xml

VICGAS\_CATSChangeRequestStandingDataResponseRetro\_r36.xml

VICGAS\_CATSChangeRequestStandingDataResponse\_r36.xml

VICGAS\_CATSChangeRequest\_r36.xml

VICGAS\_CATSChangeResponse\_r36.xml

VICGAS\_CATSChangeWithdrawal\_r36.xml

VICGAS\_CATSDataRequest\_r36.xml

VICGAS\_CATSNoticeOfReadFailure\_r36.xml

VICGAS\_CATSNotificationCDB\_r36.xml

VICGAS\_CATSNotificationCFRO\_r36.xml

VICGAS\_CATSNotificationCompletedCDB\_r36.xml

VICGAS\_CATSNotificationPendingCFRO\_r36.xml

VICGAS\_CATSNotificationWithdrawalCDB\_r36.xml

VICGAS\_CATSNotificationWithdrawalCFRO\_r36.xml

VICGAS\_CATSNotification\_01\_r36.xml

VICGAS\_CATSNotification\_02\_r36.xml

VICGAS\_CATSObjectionNotification\_r36.xml

VICGAS\_CATSObjectionRequest\_r36.xml

VICGAS\_CATSObjectionResponse\_r36.xml

VICGAS\_CATSObjectionWithdrawal\_r36.xml

VICGAS\_CurrentRetailerConfirmationRequest\_r36.xml

VICGAS\_CurrentRetailerConfirmationResponse\_r36.xml

VICGAS\_FieldWorkNotification\_r36.xml

VICGAS\_GasInformationRequestData\_r36.xml

VICGAS\_GasRetrieveRequestData\_AMDQId\_r36.xml

VICGAS\_GasRetrieveRequestData\_AMDQNominationCGD\_r36.xml

VICGAS\_GasRetrieveRequestData\_AMDQSearch\_r36.xml

VICGAS\_GasRetrieveRequestData\_r36.xml

VICGAS\_GasRetrieveResponseData\_AMDQNominationCGD\_2\_r36.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_NOIHNS\_r36.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r32NOIHNS.x36.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r36.xml

VICGAS\_GasRetrieveResponseData\_r36.xml

VICGAS\_GasSearchRequestData\_r36.xml

VICGAS\_GasSearchResponseData\_AmdqNomination\_r36.xml

VICGAS\_GasSearchResponseData\_r36.xml

VICGAS\_GasSearchResponseData\_StandingWithdrawn\_r36.xml

VICGAS\_GasSubmitRequestData\_AgencyNominationConfirmation\_r36.xml

VICGAS\_GasSubmitRequestData\_AmdqNomination.x36.xml

VICGAS\_GasSubmitRequestData\_IHN\_NOIHNS\_r36.xml

VICGAS\_GasSubmitRequestData\_IHN\_r36.xml

VICGAS\_GasSubmitRequestData\_r36.xml

VICGAS\_GasSubmitResponseData\_AmdqNomination\_2\_r36.xml

VICGAS\_GasSubmitResponseData\_r36.xml

VICGAS\_MeterDataHistoryRequest\_r36.xml

VICGAS\_MeterDataHistoryResponse\_r36.xml

VICGAS\_MeterDataMissingNotification\_r36.xml

VICGAS\_MeterDataNotification\_r36.xml

VICGAS\_MeterDataResponse\_r36.xml

VICGAS\_MeterDataVerifyRequest\_r36.xml

VICGAS\_MeterDataVerifyResponse\_r36.xml

VICGAS\_MeteredSupplyPointsCount\_r36.xml

VICGAS\_MeterNotificationMeterFix\_r36.xml

VICGAS\_MeterNotificationMIRNStatusUpdate\_r36.xml

VICGAS\_MeterReadInputNotification\_r36.xml

VICGAS\_NetworkDUoSBillingNotification\_DisputeRes\_r36.xml

VICGAS\_NetworkDUoSBillingNotification\_Dispute\_r36.xml

VICGAS\_NetworkDUoSBillingNotification\_PaymentAdvice\_r36.xml

VICGAS\_NetworkDUoSBillingNotification\_r36.xml

VICGAS\_NMIDiscoveryResponseGas\_r36.xml

VICGAS\_NMIStandingDataResponseGas\_r36.xml

VICGAS\_NMIStandingDataUpdateNotificationResponse\_r36.xml

VICGAS\_NMIStandingDataUpdateNotification\_r36.xml

VICGAS\_SearchResponse\_Data\_IHN\_NOIHN\_r36.xml

VICGAS\_SearchResponse\_Data\_IHN\_r36.xml

VICGAS\_ServiceOrderRequest(MeterFix)\_01\_r36.xml

VICGAS\_ServiceOrderRequest(MeterFix)\_02\_r36.xml

VICGAS\_ServiceOrderRequest(NewConnection)\_r36.xml

VICGAS\_ServiceOrderResponse(Completion)\_r36.xml

VICGAS\_ServiceOrderResponse(Initial)\_r36.xml

VICGAS\_ServiceOrderResponse(NoAccess)\_r36.xml

VICGAS\_ServiceOrderResponse(StandingData)\_r36.xml

VICGAS\_SpecialReadRequest\_r36.xml

VICGAS\_SpecialReadResponse(NoAccess)\_r36.xml

VICGAS\_SpecialReadResponse\_r36.xml

VICGAS\_SubmitResponseData\_IHN\_NOIHN\_r36.xml

VICGAS\_SubmitResponseData\_IHN\_r36.xml

VICGAS\_TransAck\_r36.xml

VICGAS\_TxnNAck\_r36.xml

Invalid files were also tested:

NEMMSATS\_ChangeRequest2501\_invalid\_r36.xml

NEMMSATS\_ChangeRequestAllFieldsMeterConfig\_invalid\_r36.xml

NEMMSATS\_NMIStandingDataResponseMeterConfig\_invalid\_r36.xml

### Test Process

1. Obtain a copy of the 5 existing regression test suite XML files
   1. nem\_samples\_r35.zip
   2. nem\_wholesale\_samples\_r35.zip
   3. nemb2b\_samples\_r35.zip
   4. sawa\_samples\_r35.zip
   5. vicgas\_samples\_r35.zip
2. Obtain a copy of the new R36 test suite XML files
3. Unzip all test XML files a folder
4. Replace “xmlns:ase="urn:aseXML:r35” with “xmlns:ase="urn:aseXML:r36”
5. Replace “xsi:schemaLocation="urn:aseXML:r36 <http://www.nemmco.com.au/aseXML/schemas/r36/aseXMLr36.xsd>” with “xsi:schemaLocation="urn:aseXML:r36 S:/aseXML\_r36.xsd”
6. Check every single test XML file individually to detect variances in the above xsi:schemaLocation approach, e.g. hardcoded “O:/<filename>” instances and other occurrences not picked up by the standard search/replace above need to be manually fixed. It would be good if a single search/replace could be used for this step, and the test XML files had consistent headers.
7. Run the test process using the 4 supported XML Toolkits.
8. Check output log for any successful parse results, as well as expected or unexpected errors.

### Test Results

All OK on all Test Platforms, see section 6.2.1

* All valid test files passed with no parse error.



### Character Classification

Pattern restriction is enforced by regular expressions in some places in aseXML schema. That makes knowing the precise set of classification of characters important. It is particularly important in the testing process. In some quick tests using simple Pattern class in JAVA – not fully fledged JAVA parsers – some differences vis-à-vis XML Spy were reported. These tests were performed to validate the data stored in database against aseXML type definitions. Some characters that were treated differently between JAVA Pattern class and XML Spy were $ + |. XML Spy accepted them as punctuation characters but JAVA Pattern class rejected. Note, these three characters are only a few examples of difference, not an exhaustive list. As explained below, further investigations revealed that XML Spy is correct as per the XML standard.

The XML standards depend upon Unicode specifications for the purpose of this classification. The complete list of classification of Unicode characters in various classes can be found at <http://www.unicode.org/>.

To download the classification for any particular version of classification, start from directory listing at <http://www.unicode.org/Public> and traverse down the tree of the concerned version to download the zip (usually named ucd.zip) which contains all the documents for that version. The zip for version 6.2.0 resides at <http://www.unicode.org/Public/6.2.0/ucd/>. The document in this zip, usually named UnicodeData.txt, contains entire classification of all Unicode characters, having a line per Unicode character, with semi-colon delimited fields in each line. Explanation of fields can be found in the documentation in the zip (UCD.html). To view this UnicodeData.txt document conveniently, start Excel and open the document. While opening the document Excel will ask for information about the file contents. In response specify the document to be semicolon delimited with each column of the document being text. The column C of the Excel spreadsheet specifies the character classification. Note, while opening the file in Excel if each column is not specified to be text then Excel may format some information incorrectly.

The classification of the extended ASCII characters for version 6.2.0 of Unicode is provided here in an Excel spreadsheet :



The classifications starting with L signify letters, starting with N signify digits, starting with P signify punctuations, starting with S signify symbols and those starting with C signify control characters. Note, the spread sheet does not contain all the fields (columns) from the UnicodeData.txt file.

# ASWG Endorsement

With a quorum established the ASWG voted to endorse schema r36, with the included aseXML Change Requests. The voting results are forwarded to AEMO for approval. When 75% of those ASWG members vote to endorse a schema it represents an ASWG recommendation for that schema. AEMO will not reject an ASWG recommendation without first consulting with the ASWG.

The results of the ASWG vote for the final schema to be released are as follows:

Date of Vote: 21/04/2017

| **Option** | **# Votes** | **% Vote** |
| --- | --- | --- |
| For | 4 | 100% |
| Against |  |  |
| Abstained |  |  |
| Total Members Present | 4 | 100% |

# AEMO Approval

The schema approval and approval date are identified below

|  |  |  |
| --- | --- | --- |
| **Status** | **Date** | **Authorised by** |
| **Approved** – The schema has been approved by AEMO and is formally released for use | 24/04/2017 | Anoop Nambiar |