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| aseXML SCHEMA CHANGE REQUEST – CR71  |

Q1 2022

MSDR

Change request document for MSDR related schema objects

Version Control

|  |  |  |
| --- | --- | --- |
| Version | Release date | Changes |
| 0.1 | 01/10/2021 | Initial request |
| 0.2 | 27/10/2021 | Update as per feedback from ASWG |
| 0.3 | 15/11/2021 | Updated for typo mistake with respect to GeographicCoordinate instead of correct name of new element GPSCoordinates |
| 0.4 | 18/11/2021 | Added HouseNumberToSuffix element as per feedback from ASWG |

Contents

[1. Change Proposal 5](#_Toc31704275)

[1.1 Description of the proposed change 5](#_Toc31704276)

[1.2 Reason for Change 5](#_Toc31704277)

[1.3 Supplied Documents 6](#_Toc31704278)

[1.4 Baseline Schema 6](#_Toc31704279)

[2. Approval Proposal 7](#_Toc31704280)

[2.1 Proposed Changes 7](#_Toc31704281)

[3. Proposal Assessment 11](#_Toc31704282)

[3.1 Test 11](#_Toc31704283)

[3.2 Conformance Report 11](#_Toc31704284)

[4. Issue Register 12](#_Toc31704285)

[4.1 Status of Issues 12](#_Toc31704286)

[5. Resolution 12](#_Toc31704287)

[5.1 ASWG Endorsement 12](#_Toc31704288)

[Glossary 13](#_Toc31704289)

Tables

[Table 1 Proposed Changes 7](#_Toc84962528)

[Table 2 Change Log 11](#_Toc84962529)

[Table 3 Impact Summary 34](#_Toc84962530)

[Table 4 Change Proposal Conformance Details 35](#_Toc84962531)

[Table 5 Issues list 36](#_Toc84962532)

[Table 6 ASWG Vote Results 36](#_Toc84962533)

Figures

**No table of contents entries found.**

# Change Proposal

This Change Proposal is to accommodate changes related to the MSDR project.

In August 2020, after significant Industry consultation, AEMO published a final report and determination for the MSATS Standing Data Review (MSDR). The MSDR process considered a large number of changes for MSATS Standing Data fields, including amendments to existing fields, removal of existing fields, and addition of new fields.

The MSDR Final Report and Determination will mean significant change to the standing data. In summary, the changes include:

* MSDR Phase 1 consultation, effective date 1 May 2022
	+ 24 new fields (inclusive of TestResult field which will be handled as new field)
	+ 24 changed fields
* MSDR Phase 2 consultation, effective date 1 November 2022
	+ 28 removed fields

As many of the changes identified in the MSDR consultation are to be enforced through the Procedures and the MSATS application layer only a subset of these changes require changes to the aseXML schema. This document details what these required aseXML schema changes are for the MSDR Phase 1 consultation.

In summary, the following schema changes related to the MSDR Phase 1 consultation are detailed in:

* 24 new aseXML elements
* 3 changed aseXML elements

AEMO and industry may choose to drop the 28 fields described in the MSDR Phase 2 consultation from the schema at a later stage.

All schema versions from r42 and above are required to include the change.

**The following changes cater to only new fields and amended fields for MSDR Project.**

Note: Removed Attributes/Fields will not be dropped/removed from the schema

## Description of the proposed change

The proposed changes are listed in the following table.

|  |  |  |
| --- | --- | --- |
| **Item#** | **Change Description** | **Change Type[[1]](#footnote-2)** |
| 1 | Add eight new fields for NMI standing data:* SharedIsolationPointFlag
* MeterMalfunctionExemptionNumber
* MeterMalfunctionExemptionExpiryDate
* ConnectionConfiguration
* GNAFPID
* SectionNumber
* DPNumber
* HouseNumberTo
 | New |
| 2 | Add fifteen new fields for Meter Register Standing Data:* CurrentTransformerLocation
* CurrentTransformerType
* CurrentTransformerRatioAvailable
* CurrentTransformerRatioConnected
* CurrentTransformerAccuracyClass
* CurrentTransformerTest
* CurrentTransformerTestDate
* GPSCoordinates
* VoltageTransformerLocation
* VoltageTransformerType
* VoltageTransformerRatio
* VoltageTransformerAccuracyClass
* VoltageTransformerTest
* VoltageTransformerTestDate
* Add TestResult as new field to Meter Register Table -**ElectricityNMIMeterGroup** [TestResultAccuracy is renamed to TestResult which will be treated as new element]
 | New |
| 3 | Modify existing elements for amended fields * Hazard
* Location
* LocationDescriptor
 | New |
| 4 | Added HouseNumberToSuffix element  | New |

1. Proposed Changes

### Change Description

Addition of new fields and update existing fields to provide more complete and accurate Standing Date to support MSDR.

## Reason for Change

The new fields added in schema for MSATS Standing Data Review (MSDR) provided an opportunity to ensure MSATS Standing Data reflects the needs of the market by standardising the data and ensuring that data are complete, accurate and useful.

## Supplied Documents

Not applicable.

### Business process document

Currently a number of standing data fields are poorly utilised—the data is incomplete, ‘nonsense’ and as a result, is not useful.

AEMO is proposing that all standing data must be complete, accurate, and useful.

• Complete: No more “optional” fields—only “mandatory” or “required”.

• Accurate: Minimal free text, structured fields.

• Useful: All underutilised fields to be reviewed and/or removed.

### Other

Not applicable.

## Baseline Schema

The schema used as a basis for this proposal is r41.

# Approval Proposal

## Proposed Changes

### Draft schemas



### Change log

The following changes have been implemented in this draft:

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 | 1,2,3 | Replace version of schema to r42 | aseXML\_r42.xsd |
| 2 | 2 | * Add fifteen new fields for Meter Register Table to **ElectricityNMIMeterGroup**
* CurrentTransformerLocation
* CurrentTransformerType
* CurrentTransformerRatioAvailable
* CurrentTransformerRatioConnected
* CurrentTransformerAccuracyClass
* CurrentTransformerTest
* CurrentTransformerTestDate
* GPSCoordinates
* VoltageTransformerLocation
* VoltageTransformerType
* VoltageTransformerRatio
* VoltageTransformerAccuracyClass
* VoltageTransformerTest
* VoltageTransformerTestDate
* Add TestResult as new field to Meter Register Table -**ElectricityNMIMeterGroup** [TestResultAccuracy is renamed to TestResult which will be treated as new element]
* Update version attribute
* ElectricityNMIMasterRow
* ElectricityNMIMeterRow
* ElectricityNMIMasterRowBDT
* ElectricityNMIMeterRowBDT
* ElectricityCATSChangeRequestNMIMasterRow
* ElectricityCATSChangeRequestNMIMeterRow
 | CATSTableReplication\_r42.xsd |
| 3 | 1,3,4 | * Define new address related fields (HouseNumberTo, HouseNumberToSuffix, SectionNumber, DPNumber, GNAFPID) and add them to existing **AustralianAddress, AustralianPartialAddress, AustralianStructuredAddressPartialComponents** and **AustralianStructuredAddressComponents**
* Update LocationDescriptor length from 30 to 200
 | ClientInformation\_r42.xsd |
| 4 | 1,2,3 | * Define new simple types
* Modify existing element data length – MeterHazard, MeterLocation
* Update version attribute of **ElectricityStandingData**
* Add fifteen new fields to **ElectricityMeter** in **Electricity\_r42.xsd**
* CurrentTransformerLocation
* CurrentTransformerType
* CurrentTransformerRatioAvailable
* CurrentTransformerRatioConnected
* CurrentTransformerAccuracyClass
* CurrentTransformerTest
* CurrentTransformerTestDate
* GPSCoordinates
* VoltageTransformerLocation
* VoltageTransformerType
* VoltageTransformerRatio
* VoltageTransformerAccuracyClass
* VoltageTransformerTest
* VoltageTransformerTestDate
* Add **TestResult** asnew fields for Meter Register Table to **ElectricityMeter**
 | Electricity\_r42.xsd |
| 5 | 1,4 | Add eight new fields to **ElectricityMasterStandingData** and **ElectricityNMIMasterGroup** in **ElectricityMasterStandingData\_r42.xsd**:* SharedIsolationPointFlag
* MeterMalfunctionExemptionNumber
* MeterMalfunctionExemptionExpiryDate
* ConnectionConfiguration
* GNAFPID
* SectionNumber
* DPNumber
* HouseNumberTo
* HouseNumberToSuffix

Add four new fields to **ElectricityMasterStandingData** in **ElectricityMasterStandingData\_r42.xsd**:* SharedIsolationPointFlag
* MeterMalfunctionExemptionNumber
* MeterMalfunctionExemptionExpiryDate
* ConnectionConfiguration
 | ElectricityMasterStandingData\_r42.xsd |
| 6 | 1,2,3 | Registration of r42 release | Events\_r42.xsd |

1. Change Log

### Schema change description

#### aseXml\_r39.xsd

New file to replace aseXML\_r42.xsd and include the r42 file versions listed below.

<xsd:schema xmlns="urn:aseXML:r42" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" targetNamespace="urn:aseXML:r42" version="r42" xsi:schemaLocation="urn:aseXML:r42 aseXML\_r42.xsd">

<xsd:include schemaLocation="ClientInformation\_r42.xsd">

<xsd:include schemaLocation="CATSTableReplication\_r42.xsd"/>

<xsd:include schemaLocation="Electricity\_r42.xsd"/>

<xsd:include schemaLocation="ElectricityMasterStandingData\_r42.xsd"/>

<xsd:include schemaLocation="Events\_r42.xsd">

#### CATSTableReplication\_r42.xsd

Add fifteen new fields for Meter Register Table to **ElectricityNMIMeterGroup**

Add **TestResult** as new element.

<xsd:group name="ElectricityNMIMeterGroup">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Common NMI Meter elements across Standing Data and Change Requests

 </xsd:documentation>

 </xsd:annotation>

 <xsd:sequence>

 <xsd:element name="SerialNumber" type="MeterSerialNumber"/>

 <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="TestResult" type="MeterTestResult" 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="NMIStatusCode" nillable="true" 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="CurrentTransformerLocation" type="CurrentTransformerLocation" nillable="true" minOccurs="0"/>

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

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

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

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

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

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

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

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

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

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

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

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

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

 </xsd:sequence>

 </xsd:group>



Update version attribute for ElectricityNMIMasterRow, ElectricityNMIMeterRow, ElectricityNMIMasterRowBDT, ElectricityNMIMeterRowBDT, ElectricityCATSChangeRequestNMIMasterRow, ElectricityCATSChangeRequestNMIMeterRow

<xsd:complexType name="ElectricityNMIMasterRow">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Row of the Electricity NMI Master Standing Data table

MSATS Data Model Table - CATS\_NMI\_Data

Replication Table Name - ElectricityNMIMaster

 </xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="ReplicationDateRangeRow">

 <xsd:sequence>

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

 <xsd:group ref="ElectricityNMIMasterGroup"/>

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

 </xsd:complexType>

<xsd:complexType name="ElectricityNMIMeterRow">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Row of the Electricity NMI Meter Register table

MSATS Data Model Table - CATS\_Meter\_Register

Replication Table Name - ElectricityNMIMeters

 </xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="ReplicationDateRangeRow">

 <xsd:sequence>

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

 <xsd:group ref="ElectricityNMIMeterGroup"/>

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

 </xsd:complexType>

<xsd:complexType name="ElectricityNMIMasterRowBDT">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Row of the Electricity NMI Master Standing Data table extended by BDTStatus and Event for Bulk Data Tool

MSATS Data Model Table - CATS\_NMI\_Data

Replication Table Name - ElectricityNMIMaster

 </xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="ReplicationDateRangeRow">

 <xsd:sequence>

 <xsd:group ref="ElectricityNMIMasterGroup"/>

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

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

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="ElectricityNMIMeterRowBDT">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Row of the Electricity NMI Meter Standing Data table extended by BDTStatus and Event for Bulk Data Tool

 </xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="ReplicationDateRangeRow">

 <xsd:sequence>

 <xsd:group ref="ElectricityNMIMeterGroup"/>

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

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

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

 </xsd:complexType>

<xsd:complexType name="ElectricityCATSChangeRequestNMIMasterRow">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Row of the Electricity CATS Change Request NMI Master Standing Data table

MSATS Data Model Table - CATS\_Inbound\_NMI\_Data

Replication Table Name - ElectricityCATSChangeRequestNMIMaster

 </xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="ReplicationBaseRow">

 <xsd:sequence>

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

 <xsd:group ref="ElectricityNMIMasterGroup"/>

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

 </xsd:complexType>

<xsd:complexType name="ElectricityCATSChangeRequestNMIMeterRow">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Row of the Electricity CATS Change Request NMI Meter Register table

MSATS Data Model Table - CATS\_Inbound\_Meter\_Register

Replication Table Name - ElectricityCATSChangeRequestNMIMeters

 </xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="ReplicationBaseRow">

 <xsd:sequence>

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

 <xsd:group ref="ElectricityNMIMeterGroup"/>

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

 </xsd:complexType>

#### ClientInformation\_r42.xsd

Define new address related fields (HouseNumberTo,HouseNumberToSuffix,SectionNumber,DPNumber,GNAFPID) and add them to existing **AustralianAddress, AustralianPartialAddress, AustralianStructuredAddressPartialComponents** and **AustralianStructuredAddressComponents**

<xsd:complexType name="AustralianPartialAddress">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Define an Australian address

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

 </xsd:documentation>

 </xsd:annotation>

 <xsd:sequence>

 <xsd:choice minOccurs="0">

 <xsd:element name="StructuredAddress" type="AustralianStructuredAddressPartialComponents"/>

 <xsd:element name="UnstructuredAddress">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="AddressLine" type="AustralianAddressLine" nillable="true" maxOccurs="3"/>

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 </xsd:choice>

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

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

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

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

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

 </xsd:sequence>

 </xsd:complexType>

<xsd:complexType name="AustralianStructuredAddressPartialComponents">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Define those fields of an Australian address that are only provided as part of a structured address

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

 </xsd:documentation>

 </xsd:annotation>

 <xsd:sequence>

 <xsd:element name="FlatOrUnit" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="FloorOrLevel" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="BuildingOrPropertyName" type="AustralianBuildingOrPropertyName" nillable="true" minOccurs="0" maxOccurs="2"/>

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

 <xsd:element name="House" minOccurs="0" maxOccurs="2">

 <xsd:complexType>

 <xsd:sequence>

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

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

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="Lot" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

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

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="Street" minOccurs="0" maxOccurs="2">

 <xsd:complexType>

 <xsd:sequence>

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

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="PostalDelivery" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

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

 <xsd:element name="PostalDeliveryNumber" nillable="true" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

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

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 </xsd:sequence>

 </xsd:complexType>

<xsd:complexType name="AustralianAddress">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Define an Australian address

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

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

 </xsd:documentation>

 </xsd:annotation>

 <xsd:sequence>

 <xsd:choice>

 <xsd:element name="StructuredAddress" type="AustralianStructuredAddressComponents"/>

 <xsd:element name="UnstructuredAddress">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="AddressLine" type="AustralianAddressLine" nillable="true" maxOccurs="3"/>

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 </xsd:choice>

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

 <xsd:element name="StateOrTerritory" type="AustralianStateOrTerritory"/>

 <xsd:element name="PostCode" type="AustralianPostCode"/>

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

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

 </xsd:sequence>

 </xsd:complexType>



 <xsd:complexType name="AustralianStructuredAddressComponents">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Define those fields of an Australian address that are only provided as part of a structured address

Detail - See the definition of AustralianAddress for more details. This type should be used where a complete address is being provided. If only part of an address is being provided, use the AustralianStructuredAddressPartialComponents type.

 </xsd:documentation>

 </xsd:annotation>

 <xsd:sequence>

 <xsd:element name="FlatOrUnit" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="FlatOrUnitType" type="AustralianFlatOrUnitType" nillable="true"/>

 <xsd:element name="FlatOrUnitNumber" type="AustralianFlatOrUnitNumber" nillable="true"/>

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="FloorOrLevel" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="FloorOrLevelType" type="AustralianFloorOrLevelType" nillable="true"/>

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="BuildingOrPropertyName" type="AustralianBuildingOrPropertyName" nillable="true" minOccurs="0" maxOccurs="2"/>

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

 <xsd:element name="House" minOccurs="0" maxOccurs="2">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="HouseNumber" type="AustralianHouseNumber" nillable="true"/>

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

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

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

</xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="Lot" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="LotNumber" type="AustralianLotNumber" nillable="true"/>

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="Street" minOccurs="0" maxOccurs="2">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="StreetName" type="AustralianStreetName" nillable="true"/>

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 <xsd:element name="PostalDelivery" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

 <xsd:element name="PostalDeliveryType" type="AustralianPostalDeliveryType" nillable="true"/>

 <xsd:element name="PostalDeliveryNumber" minOccurs="0">

 <xsd:complexType>

 <xsd:sequence>

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

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

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

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 </xsd:sequence>

 </xsd:complexType>

 </xsd:element>

 </xsd:sequence>

 </xsd:complexType>

<xsd:simpleType name="GeocodedNationalAddressFilePersistentIdentifier">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Define the Geocoded National Address File (G-NAF) Persistent Identifier (PID) for a given address

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="SectionNumber">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Corresponds to a reference that contributes to defining the legal boundaries of a plot of land in NSW and ACT.

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="DepositedPlanNumber">

 <xsd:annotation>

 <xsd:documentation>

Purpose - A deposited plan (DP) number corresponds to an image that defines the legal boundaries of a plot of land in NSW and ACT

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>



Update **LocationDecriptor** length from 30 to 200

<xsd:simpleType name="AustralianLocationDescriptor">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Define location descriptor as per Australian Standard AS4590

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

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:pattern value="[\p{L}\p{N}\p{P}\s]{1,200}"/>

 </xsd:restriction>

 </xsd:simpleType>

#### Electricity\_r42.xsd

Update existing elements data length for amended fields.

 <xsd:simpleType name="MeterHazard">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - MeterHazard

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="100"/>

 </xsd:restriction>

 </xsd:simpleType>

<xsd:simpleType name="MeterLocation">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - MeterLocation

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="200"/>

 </xsd:restriction>

 </xsd:simpleType>

Addition of new following new elements – All new simple types are defined here.

<xsd:simpleType name="MeterTestResult">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - TestResult

Renamed from MeterTestResultAccuracy

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="4"/>

 </xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="CurrentTransformerLocation">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - CurrentTransformerLocation

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="50"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="CurrentTransformerType">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - CurrentTransformerType

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>

<xsd:simpleType name="CurrentTransformerRatioAvailable">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - CurrentTransformerRatioAvailable

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="50"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="CurrentTransformerRatioConnected">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - CurrentTransformerRatioConnected

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="CurrentTransformerAccuracyClass">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - CurrentTransformerAccuracyClass

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="50"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="VoltageTransformerLocation">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - VoltageTransformerLocation

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="50"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="VoltageTransformerType">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - VoltageTransformerType

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="50"/>

 </xsd:restriction>

 </xsd:simpleType>

<xsd:simpleType name="VoltageTransformerRatio">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - VoltageTransformerRatio

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="50"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="VoltageTransformerAccuracyClass">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - VoltageTransformerAccuracyClass

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="TransformerTest">

 <xsd:annotation>

 <xsd:documentation>

MSATS Data Model Column - Current and Voltage TransformerTest

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="20"/>

 </xsd:restriction>

 </xsd:simpleType>

<xsd:simpleType name="SharedIsolationPointFlag">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Flag to indicate the Shared Fuse Arrangement for the metering installation - SharedIsolationPointFlag

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:length value="1"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="MeterMalfunctionExemptionNumber">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Identify the Meter Malfunction Exemption Number - MeterMalfunctionExemptionNumber

Details - The exemption number granted by AEMO when a meter malfunction exemption is granted

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:maxLength value="8"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="ConnectionConfiguration">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Information about the configuration of the connection point - ConnectionConfiguration

 </xsd:documentation>

 </xsd:annotation>

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

 <xsd:length value="2"/>

 </xsd:restriction>

 </xsd:simpleType>

Update version attribute of existing **ElectricityStandingData**

<xsd:complexType name="ElectricityStandingData">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Standing data associated with an electricity NMI.

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

</xsd:documentation>

 </xsd:annotation>

 <xsd:complexContent>

 <xsd:extension base="NMIStandingData">

 <xsd:sequence>

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

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

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

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

 </xsd:sequence>

 <xsd:attribute name="version" type="r42" use="optional" default="r42"/>

 </xsd:extension>

 </xsd:complexContent>

 </xsd:complexType>

Add fifteen new fields for Meter Register Table to **ElectricityMeter**

Add **TestResult** asnew fields for Meter Register Table to **ElectricityMeter**

<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="TestResult" type="MeterTestResult" 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:element name="CurrentTransformerLocation" type="CurrentTransformerLocation" nillable="true" minOccurs="0"/>

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

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

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

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

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

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

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

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

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

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

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

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

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

 </xsd:sequence>

 </xsd:complexType>

#### ElectricityMasterStandingData\_r42.xsd

Add eight new fields to ElectricityNMIMasterGroup

 <xsd:group name="ElectricityNMIMasterGroup">

 <xsd:annotation>

 <xsd:documentation>

Purpose - Common NMI Master elements across Standing Data and Change Requests

 </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="FlatOrUnitType" type="AustralianFlatOrUnitType" nillable="true" minOccurs="0"/>

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

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

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

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

 <xsd:element name="BuildingOrPropertyName2" type="AustralianBuildingOrPropertyName" nillable="true" minOccurs="0"/>

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

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

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

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

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

 <xsd:element name="HouseNumber2" type="AustralianHouseNumber" nillable="true" minOccurs="0"/>

 <xsd:element name="HouseNumber2Suffix" type="AustralianHouseNumberSuffix" nillable="true" minOccurs="0"/>

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

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

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

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

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

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

 <xsd:element name="AddressLine1" type="AustralianAddressLine" nillable="true" minOccurs="0"/>

 <xsd:element name="AddressLine2" type="AustralianAddressLine" nillable="true" minOccurs="0"/>

 <xsd:element name="AddressLine3" type="AustralianAddressLine" nillable="true" minOccurs="0"/>

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

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

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

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

<xsd:element name="GNAFPID" type="GeocodedNationalAddressFilePersistentIdentifier" 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="TransmissionNodeIdentifier2" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

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

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

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

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

 </xsd:sequence>

 </xsd:group>



Add four new fields to ElectricityMasterStandingData

<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:element name="TransmissionNodeIdentifier2" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

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

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

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

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

 </xsd:sequence>

 </xsd:complexType>



#### Events\_r42.xsd

Define new simple type “r42”

 <xsd:simpleType name="r42">

 <xsd:annotation>

 <xsd:documentation>Purpose - Release r42 identifier.</xsd:documentation>

 </xsd:annotation>

 <xsd:restriction base="ReleaseIdentifier">

 <xsd:enumeration value="r42"/>

 </xsd:restriction>

 </xsd:simpleType>

### Impact Summary

This table identifies the files, transactions and versioned types that are potentially impacted as the result of these changes, where:

* Modified types – is a full list of types changed by this Change Request
* 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 as a result of this Change Request
* 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 will be changed in some way as a result of this Change Request.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modified types** | **Derived types** | **Versioned types affected** | **Transactions potentially affected** | **Schema files affected** |
|  |  |  |  | aseXML\_r42.xsd |
| R42 |  |  |  | Events\_r42.xsd |
| ElectricityNMIMeterGroup |  | ElectricityNMIMasterRowElectricityNMIMeterRowElectricityNMIMasterRowBDTElectricityNMIMeterRowBDTElectricityCATSChangeRequestNMIMasterRowElectricityCATSChangeRequestNMIMeterRow | ReplicationNotificationCATSBulkDataResponse | CATSTableReplication\_r42.xsd |
| AustralianPartialAddress AustralianStructuredAddressPartialComponents AustralianAddress AustralianStructuredAddressComponents |  |  |  | ClientInformation\_r42.xsd |
| ElectricityNMIMasterGroupElectricityMasterStandingData | ElectricityCATSChangeRequestNMIMasterRowElectricityNMIMasterRowBDTElectricityNMIMasterRow | ElectricityStandingData | NMIStandingDataResponseReportResponseCATSChangeRequest | ElectricityMasterStandingData\_r42.xsd |
| ElectricityMeter |  |  |  | Electricity\_r42.xsd |

1. Impact Summary

### Developer Test

#### Test Platforms

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

* XMLSpy 2014

#### Test Cases

To be completed post development

# Proposal Assessment

## 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 4.0 SP1
* Xerces 1.4.1
* Xerces 2.2.1
* XMLSpy 2004

### Test Cases

As per section 0.

### Test Results

No issues.

## Conformance Report

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

|  |  |  |
| --- | --- | --- |
| **Schema Filename** | **Impacted by Item #** | **Conformance Details** |
| aseXML\_r\*.xsd |  | Conforms |
|  |  |  |

1. Change Proposal Conformance Details

# Issue Register

This section describes any issues that have arisen and any modifications that are made to the original proposal during the Change Process

## Status of Issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Issue#** | **Item#** | **Description and Discussion** | **Status[[2]](#footnote-3)** | **Resolution** |
| 1 |  | MSDR Project Phase 1 |  |  |

1. Issues list

# Resolution

The ASWG votes for endorsement of the options identified in section 2, and the voting results are forwarded to AEMO for approval. When 75% of those ASWG members who voted endorse a specific option, this represents an ASWG Recommendation for that option. AEMO will not reject an ASWG Recommendation without first consulting with the ASWG.

## ASWG Endorsement

The results of the ASWG vote are as follows:

Date of Vote:

|  |  |  |
| --- | --- | --- |
| **Option** | **# Votes** | **% Vote** |
| Approved | 0 | 0 |
| Rejected | 0 |  |
| Abstained | 0 |  |
| Total Members Present | 0 |  |

1. ASWG Vote Results

Glossary

|  |  |
| --- | --- |
| Term | Definition |
|  |  |
|  |  |
|  |  |

1. Change Type can be one of

New

Enhancement, or

Bug Fix [↑](#footnote-ref-2)
2. Either ‘Open’ or ‘Closed’ [↑](#footnote-ref-3)