| aseXML SCHEMA CHANGE REQUEST – CR72 |
| --- |

Q1 2023

B2M and B2B schema changes

Change request document for B2M and B2B system enhancements

Version Control

| Version | Release date | Changes |
| --- | --- | --- |
| 0.1 | 17/11/2022 | Schema Changes r43 - Harpreet Kaur |
| 0.2 | 5/12/2022 | Removed PersonName changes for B2B 3.7 |
|  |  |  |
|  |  |  |

Contents

[1. Change Proposal 5](#_Toc119930153)

[1.1 Description of the proposed change 6](#_Toc119930154)

[1.2 Reason for Change 9](#_Toc119930155)

[1.3 Supplied Documents 9](#_Toc119930156)

[1.4 Baseline Schema 10](#_Toc119930157)

[2. Approval Proposal 11](#_Toc119930158)

[2.1 Proposed Changes 11](#_Toc119930159)

[3. Proposal Assessment 34](#_Toc119930160)

[3.1 Test 34](#_Toc119930161)

[3.2 Conformance Report 34](#_Toc119930162)

[4. Issue Register 35](#_Toc119930163)

[4.1 Status of Issues 35](#_Toc119930164)

[5. Resolution 35](#_Toc119930165)

[5.1 ASWG Endorsement 35](#_Toc119930166)

[Glossary 36](#_Toc119930167)

Tables

[Table 1 Proposed Changes 7](#_Toc119669427)

[Table 2 Change Log 13](#_Toc119669428)

[Table 3 Impact Summary 33](#_Toc119669429)

[Table 4 Change Proposal Conformance Details 34](#_Toc119669430)

[Table 5 Issues list 35](#_Toc119669431)

[Table 6 ASWG Vote Results 35](#_Toc119669432)

Figures

**No table of contents entries found.**

# Change Proposal

This Change Proposal is to accommodate changes to the B2M and B2B system related to following requirements:

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | **Initiative** | **Procedure** | **Schema Requirement** |
| B2M | MSDR | n/a | New aseXML schema elements to support the reporting via the C1 report to Industry of MSDR introduced enumerations configured in the following MSATS Codes tables:   * MSATS\_CODE\_GROUPS * MSATS\_CODES * MSATS\_CODES\_DATED * MSATS\_CODE\_COMBOS |
| CDR Phase 2 | [Standing Data for MSATS v5.4](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2022/cdr/procedures-under-consultation/standing-data-for-msats-v54-change-marked-new-template.pdf?la=en&hash=8DDEB6913B4FE13FED6ECE5A0B0A56F2)  [MSATS Procedures - CATS v5.4](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2022/cdr/procedures-under-consultation/msats-procedures---cats-v54-changes-marked-new-template.pdf?la=en&hash=76EC067486E23EBC0B7FB7BDBA9C3DF1)  [MSATS Procedures - WIGS v5.4](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2022/cdr/procedures-under-consultation/msats-procedures---wigs-v54-change-marked-new-template.pdf?la=en&hash=FE2EE1D2217F4625F66A0B08DFE11BE4) | New aseXML schema element to support the CATS NMI Standing Data column ‘Last Consumer Change Date’:   * Addition of a new Change request that would include the column ‘Last Consumer Change Date’ to be maintained against the CATS NMI Data table within MSATS. * This field would be maintained by retailers when the consumer for an NMI changes, e.g. move-ins and used by AEMO to verify meter data requests for CDR. * The field can also be updated ad hoc where the retailer has verified the consumer's start date. |
| SAPS | n/a | C1 reporting of MDM table Node Hierarchy to display the new Settlement Indicator column. |
| New RM51 – Regulated SAPS Generator Reconciliation report |
| New aseXML schema element to support reporting via C1 of the SAPS added ‘Role Category’ column added to the CATS\_PARTICPANT\_ROLES table. |
| B2B | B2Bv3.8 | [B2B Procedure One Way Notification Process v3.8](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2022/b2b-procedures-v38/final/b2b-procedure-one-way-notification-process-v38-clean.pdf?la=en) | Creation of a new OWN Shared Fuse One Way Notification transaction type, supporting enumerated values. |

AEMO requests that the ASWG commence the formal change process cycle as soon as possible with a view of approving and publishing an updated schema version on 15th March 2023 at the latest. The system changes are scheduled to be deployed into the production environment ahead of the Procedure effective dates of dependent initiatives.

## Description of the proposed change

The proposed changes are listed in the following table.

|  |  |  |
| --- | --- | --- |
| **Item#** | **Change Description** | **Change Type[[1]](#footnote-2)** |
| 1 | MSDR changes to support C1 Report:   * Define following new complex elements in schema for representation of code(s) tables: * MSATSCodeGroupsRow * MSATSCodesDatedRow * MSATSCodeComboRow * MSATSCodesRow * Increase length of MSATSCodeValue from 15 to 100 * Update existing version attribute for MSATSCodeValuesRow from r19 to r43. | New |
| 2 | CDR Phase 2:   * Define a new element ‘**LastConsumerChangeDate’** of type date. * Add this element reference to existing ElectricityNMIMasterGroup and ElectricityMasterStandingData elements | New |
| 3 | SAPS:   * Define new complex element ‘NodeHierarchyRow’ in schema for representation of node hierarchy table * Define new complex element ‘**MDMTSettlementCaseDetailsReportParameters’** for the new Regulated SAPS Generator Reconciliation report. The purpose of the **RM51 – Regulated SAPS Generator Reconcilation** report is to provide MSRP (FRMP) participants with the energy values used to calculate the Generator allocation within a settlement run. * Define new element as **RoleCategory** for ParticipantRolesRow | New |
| 4 | B2B Changes   * Add **SharedFuseNotification** transaction. | New |

1. Proposed Changes

### Change Description

**MSDR** :

There is currently no C1 replication report for the codes tables (Codes/Codes Dated/Code Combos etc), which is now extensively used for the new enumerations in MSDR project. These tables will be added to schema for being replicated though C1 report.

**Schema changes required for MSDR are as follows:**

* **Define following new complex elements in schema for representation of code(s) tables:**
  + **MSATSCodeGroupsRow**
  + **MSATSCodesDatedRow**
  + **MSATSCodeComboRow**
  + **MSATSCodesRow**
* **Increase length of MSATSCodeValue from 15 to 100**
* **Update version attribute for MSATSCodeValuesRow from r19 to r43.**

**CDR**:

Addition of new field to provide more complete and accurate Standing Data to support CDR.

**Schema changes required for CDR are as follows:**

* **Addition of new field ‘LastConsumerChangeDate’ to existing ElectricityNMIMasterGroup and ElectricityMasterStandingData.**
* **Update version attribute of following existing elements from r42 to r43:**
  + **ElectricityNMIMasterRow**
  + **ElectricityNMIMasterRowBDT**
  + **ElectricityCATSChangeRequestNMIMasterRow and**
  + **ElectricityStandingData**

**SAPS**:

**Schema changes required for SAPS are as follows:**

* **Define new complex element ‘NodeHierarchyRow‘ in schema for representation of node hierarchy table**
* **Define new complex element ‘MDMTSettlementCaseDetailsReportParameters’ for the new Regulated SAPS Generator Reconciliation report**
* **Define new element as RoleCategory for ParticipantRolesRow**

**B2B** :

As part of B2B Cosulatation v3.8, One Way Notification Process will include a new transaction ‘SharedFuseNotification’ to indicate the current status of a shared fuse arrangement. The Change is focused on delivering uniformity and process efficiencies in B2B communications for shared fuse arrangements to support the Metering Coordinator Planned Interruption (MCPI) rule change, which introduced new obligations for Retailers and MCs to provide information to the DNSP regarding the shared fuse status at a site.

It should be noted that while the B2B Procedures v3.8 describes a set of enumerated values for the shared fuse arrangement describing the state of a NMI, as follows:

• ‘N’ – Not Shared Fuse

• ‘I’ – Shared Fuse but can be isolated independently

• ‘Y’ – Shared Fuse

The Final Determination specifies that “AEMO will create a new aseXML OWN transaction in the schema, to carry this information with any enumerations managed outside the schema”. This Change Request to the ASWG notes that while there are precedents where B2B enumerations are defined in the non-versioned Enumerations.xsd, as the allowed enumerations of the B2M SharedIsolationPointFlag are not managed here, and the Shared Market Protocol eHub does not validate the content of B2B transactions; it is proposed that the outcome of the Final Determination be upheld.

As part of B2B Cosulatation v3.7, Changes to Person Name Given and Person Name Title fields were implemented without modifying the schema. PersonNameTitle and PersonGivenName fields are now optional rather than mandatory. The schema is modified to reflect these changes.

**Schema changes required for B2B are as follows:**

* **Define new transaction SharedFuseNotification with following elements:**
  + **NMI, NMIChecksum**
  + **IdentifiedDate**
  + **SharedIsolationPointFlag**

## Reason for Change

These changes are made in the interests of improving efficiency, reducing costs and ensuring compliance with the National Electricity Objective. These changes were consulted and agreed upon in various forums.

The new fields added in schema 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.

The MC, MP or Retailer will generate the new B2B transaction ‘**SharedFuseNotification’** (either via participant market systems or the MSATS browser) with an appropriate code to indicate the status of the Shared Fuse indicator for each NMI.

The purpose of the **RM51 – Regulated SAPS Generator Reconcilation** report is to provide MSRP (FRMP) participants with the energy values used to calculate the Generator allocation within a settlement run.

## 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 r42.

# Approval Proposal

## Proposed Changes

### Draft schemas



### Change log

The following changes have been implemented in this draft:

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 |  | * Replace version of schema from r42 to r43 * Rename file to r43 version. | aseXML\_r43.xsd |
| 2 |  | * Registration of r43 release * Rename file to r43 version. | Events\_r43.xsd |
| 3 | 1,2,3 | * Define following new complex elements in schema for representation of code(s) tables: * MSATSCodeGroupsRow * MSATSCodesDatedRow * MSATSCodeComboRow * MSATSCodesRow * NodeHierarchyRow * Increase length of MSATSCodeValue from 15 to 100 * Update version attribute for MSATSCodeValuesRow from r19 to r43. * Define new element as RoleCategory for ParticipantRolesRow * Update version attribute of following existing elements from r42 to r43:   + ElectricityNMIMasterRow   + ElectricityNMIMasterRowBDT   + ElectricityCATSChangeRequestNMIMasterRow * Rename file to r43 version | CATSTableReplication\_r43.xsd |
| 4 | 3 | * Add new element ‘RoleCategory’ * Rename file to r43 version | Common\_r43.xsd |
| 5 | 2 | * Update version attribute of following existing elements from r42 to r43:   + ElectricityStandingData * Rename file to r43 version | Electricity\_r43.xsd |
| 6 | 2 | * Add new element ‘LastConsumerChangeDate’ to ElectricityNMIMasterGroup and ElectricityMasterStandingData * Rename file to r43 version. | ElectricityMasterStandingData\_r43.xsd |
|  | 3 | * Define new complex element ‘MDMTSettlementCaseDetailsReportParameters’ for the new Regulated SAPS Generator Reconciliation report | MDMTReports\_r43 |
| 7 | 4 | * Define new complex type ‘SharedFuseNotification’ transaction. * Rename file to r43 version. | OneWayNotification\_r43.xsd |
| 8 | 4 | * Add new B2B transaction ‘SharedFuseNotification’ to existing complex type ‘Transaction’ * Rename file to r43 version | Transactions\_r43.xsd |

1. Change Log

### Schema change description

#### aseXml\_r43.xsd

* New file to replace aseXML\_r42.xsd and include the r423 file versions listed below.

<xsd:schema xmlns="urn:aseXML:r43" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" targetNamespace="urn:aseXML:r43" version="r43" xsi:schemaLocation="urn:aseXML:r43 aseXML\_r43.xsd">

<xsd:include schemaLocation="CATSTableReplication\_r43.xsd">

<xsd:include schemaLocation="Common\_r43.xsd">

<xsd:include schemaLocation="Electricity\_r43.xsd">

<xsd:include schemaLocation="ElectricityMasterStandingData\_r43.xsd"/>

<xsd:include schemaLocation="Events\_r43.xsd">

<xsd:include schemaLocation="MDMTReports\_r43.xsd">

<xsd:include schemaLocation="OneWayNotification\_r43.xsd">

<xsd:include schemaLocation="Transactions\_r43.xsd">

#### CATSTableReplication\_r43.xsd

* Added following new complex elements :
  + MSATSCodeGroupsRow
  + MSATSCodesDatedRow
  + MSATSCodeComboRow
  + MSATSCodesRow
  + NodeHierarchyRow
* Added following simple type elements:
  + MSATSCodeGroup
  + MSATSCodeTableType
  + MSATSCode
* Increase data length of existing element ‘MSATSCodeValue’ from 15 to 100 characters
* Added new element RoleCategory in existing ParticipantRolesRow complex type
* Updated version attribute of following existing elements from r42 to 43:
  + ElectricityNMIMasterRow
  + ElectricityNMIMasterRowBDT
  + ElectricityCATSChangeRequestNMIMasterRow
* Rename file to r43 version.

<!-- MSATS\_CODE\_GROUPS Row -->

<xsd:complexType name="MSATSCodeGroupsRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the MSATSCodeGroups table

MSATS Data Model Table - MSATS\_CODE\_GROUPS

Replication Table Name - MSATSCodeGroups

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationBaseRow">

<xsd:sequence>

<xsd:element name="CodeGroup" type="MSATSCodeGroup"/>

<xsd:element name="Description" type="MSATSCodeValueDescription"/>

<xsd:element name="CodeTable" type="MSATSCodeTableType"/>

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

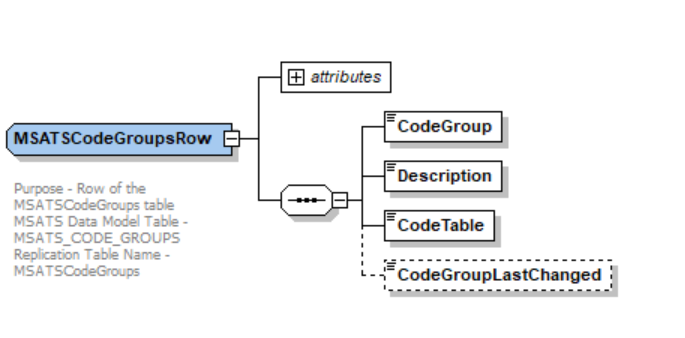
</xsd:sequence>

<xsd:attribute name="version" type="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



<!-- MSATS\_CODES\_DATED Row -->

<xsd:complexType name="MSATSCodesDatedRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the MSATSCodesDated table

MSATS Data Model Table - MSATS\_CODES\_DATED

Replication Table Name - MSATSCodesDated

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationDateRangeRow">

<xsd:sequence>

<xsd:element name="CodeGroup" type="MSATSCodeGroup"/>

<xsd:element name="Code" type="MSATSCode"/>

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

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

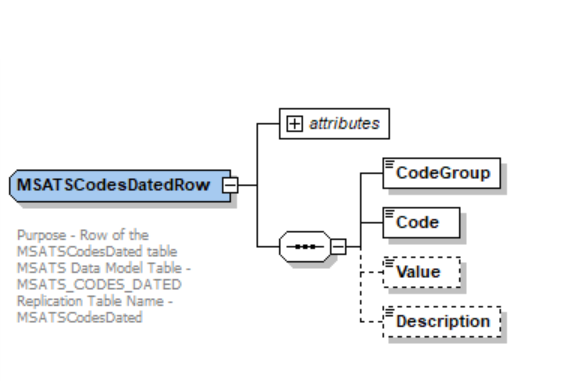
</xsd:sequence>

<xsd:attribute name="version" type="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



<!-- MSATS\_CODE\_COMBOS Row -->

<xsd:complexType name="MSATSCodeComboRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the MSATSCodesDated table

MSATS Data Model Table - MSATS\_CODE\_COMBOS

Replication Table Name - MSATSCodeCombo

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationDateRangeRow">

<xsd:sequence>

<xsd:element name="CodeGroup" type="MSATSCodeGroup"/>

<xsd:element name="Code1" type="MSATSCode"/>

<xsd:element name="Code2" type="MSATSCode" nillable="true" minOccurs="0"/>

<xsd:element name="Code3" type="MSATSCode" nillable="true" minOccurs="0"/>

<xsd:element name="Code4" type="MSATSCode" nillable="true" minOccurs="0"/>

<xsd:element name="Code5" type="MSATSCode" nillable="true" minOccurs="0"/>

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

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

</xsd:sequence>

<xsd:attribute name="version" type="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



<!-- MSATS\_CODES Row -->

<xsd:complexType name="MSATSCodesRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the MSATSCodes table

MSATS Data Model Table - MSATS\_CODES

Replication Table Name - MSATSCodes

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationBaseRow">

<xsd:sequence>

<xsd:element name="CodeGroup" type="MSATSCodeGroup"/>

<xsd:element name="Code" type="MSATSCode"/>

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

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

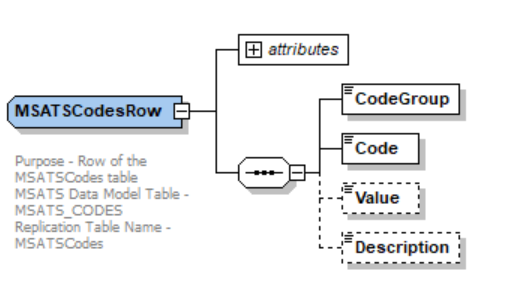
</xsd:sequence>

<xsd:attribute name="version" type="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



<!-- NODE\_HIERARCHY Row -->

<xsd:complexType name="NodeHierarchyRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the NodeHierarchy table

MSATS Data Model Table - NODE\_HIERARCHY

Replication Table Name - NodeHierarchy

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationDateRangeRow">

<xsd:sequence>

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

<xsd:element name="NodeType" type="xsd:string"/>

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

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

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

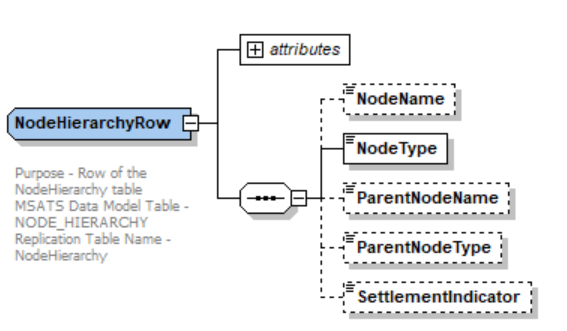
</xsd:sequence>

<xsd:attribute name="version" type="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



<xsd:simpleType name="MSATSCodeGroup">

<xsd:annotation>

<xsd:documentation>

MSATS Data Model Column - CodeGroup

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="50"/>

<xsd:minLength value="1"/>

<xsd:whiteSpace value="collapse"/>

</xsd:restriction>

<xsd:simpleType name="MSATSCode">

<xsd:annotation>

<xsd:documentation>

MSATS Data Model Column - MSATSCode

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="50"/>

<xsd:minLength value="1"/>

<xsd:whiteSpace value="collapse"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:simpleType>

<xsd:simpleType name="MSATSCodeTableType">

<xsd:annotation>

<xsd:documentation>

MSATS Data Model Column - CodeTable

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="15"/>

<xsd:minLength value="1"/>

<xsd:whiteSpace value="collapse"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="MSATSCodeValue">

<xsd:annotation>

<xsd:documentation>

MSATS Data Model Column - CodeValue

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="100"/>

<xsd:minLength value="1"/>

<xsd:whiteSpace value="collapse"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:complexType name="ParticipantRolesRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the Participant Roles table

MSATS Data Model Table - CATS\_Participant\_Roles

Replication Table Name - ParticipantRoles

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationDateRangeRow">

<xsd:sequence>

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

<xsd:element name="Role" type="RoleIdentifier"/>

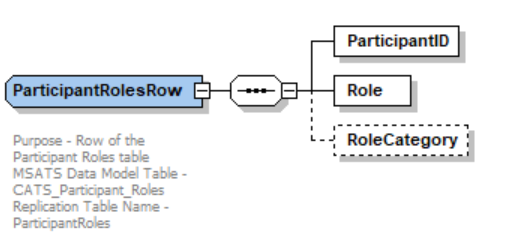
<xsd:element name="RoleCategory" type="RoleCategory" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



<!-- Electricity NMI Standing Data Replication Row Types -->

<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="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<!-- BDT Row Types -->

<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="r43" use="optional" default="r43"/>

</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="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

#### Common\_r43.xsd

* Added new ‘RoleCategory’ element.
* Rename file to r43 version.

<xsd:simpleType name="RoleCategory">

<xsd:annotation>

<xsd:documentation>

Purpose - Identify the role category.

MSATS Data Model Column - Role\_Category

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="15"/>

</xsd:restriction>

</xsd:simpleType>

#### Electricity\_r43.xsd

* Update version attribute of ‘ElectricityStandingData’ from r42 to r43
* Rename file to r43 version

<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="r43" use="optional" default="r43"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

#### ElectricityMasterStandingData\_r43.xsd

* Add new element ‘LastConsumerChangeDate’ to ElectricityNMIMasterGroup and ElectricityMasterStandingData
* Rename file to r43 version

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

<!-- can be skipped and have the nil value-->

</xsd:sequence>

</xsd:group>

<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" nillable="true" minOccurs="0"/>

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

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

<!--confirm element name-->

</xsd:sequence>

</xsd:complexType>

#### Events\_r43.xsd

* New file to replace Events\_r42.xsd and include the r42 release identifier as below:

<xsd:simpleType name="r43">

<xsd:annotation>

<xsd:documentation>Purpose - Release r43 identifier.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="ReleaseIdentifier">

<xsd:enumeration value="r43"/>

</xsd:restriction>

</xsd:simpleType>

#### MDMTReports\_r43.xsd

* Define new complex element ‘MDMTSettlementCaseDetailsReportParameters’ for the new Regulated SAPS Generator Reconciliation report

<xsd:complexType name="MDMTSettlementCaseDetailsReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for SAPS Reconciliation

Report Name - RegulatedSAPSGenerationReconcilation

MSATS Reports - RM51

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="BaseReportParameters">

<xsd:sequence>

<xsd:element name="SettlementCase" type="MDMSettlementCaseIdentifier"/>

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

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

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

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>



#### OneWayNotification\_r43.xsd

* Add new element ‘SharedFuseNotification’
* Rename file to r43 version

<xsd:complexType name="SharedFuseNotification">

<xsd:sequence>

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

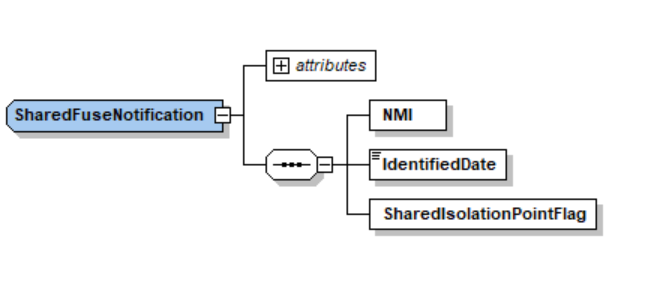
<xsd:element name="IdentifiedDate" type="xsd:date"/>

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

</xsd:sequence>

<xsd:attribute name="version" type="r43" use="optional" default="r43"/>

</xsd:complexType>



#### Transactions\_r43.xsd

* Added new B2B transaction ‘SharedFuseNotification’ to ‘Transaction’ element.
* Rename file to r43 version

<xsd:complexType name="Transaction">

<xsd:annotation>

<xsd:documentation>

Purpose - Common container for all transactions

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

</xsd:documentation>

</xsd:annotation>

<xsd:choice>

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

…

…

…

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

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

…

…

…

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

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

</xsd:choice>

<xsd:attribute name="transactionID" type="TransactionIdentifier" use="required"/>

<xsd:attribute name="transactionDate" type="xsd:dateTime" use="required"/>

<xsd:attribute name="initiatingTransactionID" type="TransactionIdentifier" use="optional"/>

</xsd:complexType>

### 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\_r43.xsd |
| R43 |  |  |  | Events\_r43.xsd |
| ParticipantRolesRow |  |  | ReplicationNotification | CATSTableReplication\_r43.xsd |
| ElectricityNMIMasterGroup  ElectricityMasterStandingData | ElectricityCATSChangeRequestNMIMasterRow  ElectricityNMIMasterRowBDT  ElectricityNMIMasterRow | ElectricityStandingData | NMIStandingDataResponse  ReportResponse  CATSChangeRequest | ElectricityMasterStandingData\_r43.xsd |
| MDMTSettlementCaseDetailsReportParameters |  |  |  | MDMTReports\_r43.xsd |
| SharedFuseNotification |  | SharedFuseNotification | SharedFuseNotification | OneWayNotification\_r43.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 |  |  |  |  |

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 |
| AEMO | Australian Energy Market Operator |
| ASWG | aseXML Standards Working Group |
| B2B | Business-to-Business |
| MXN | Meter Exchange Notification |
| PIN | PlannedInterruptionNotification |
| SO | Service Orders |

1. Change Type can be one of

   New

   Enhancement, or

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