| aseXML SCHEMA CHANGE REQUEST – CR75 |
| --- |

Q1 2025

B2M and B2B schema changes

Change request document for B2M and B2B system enhancements

Version Control

| Version | Release date | Changes |
| --- | --- | --- |
| 0.1 | 02/10/2024 | Schema Changes r45 |
| 0.2 | 11/03/2025 | Schema Changes r46 |
| 0.3 | 24/03/2025 | Schema Changes r46 – updated based on feedback from ASWG |
| 0.4 | 04/04/2025 | Schema Changes r46 – updated to include links and versions of the MSR Package 1 and B2B v3.9 final determination.   * Updated Table 1 ‘Proposed Changes’ to better reflect final stage and include hyperlinks to relevant documents. * Clarified the scope of B2B and B2M MSR package 1 changes in 1.1.1. Change Description. * Updated Table 3 ‘Business Process Documents’ to final stage and include hyperlinks to consulation pages. * Updates 1.4 Baseline Schema. |

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# Change Proposal

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Initiative** | **Procedure** | **Work Package** | **Schema Requirement** |
| B2M | MSR | [Standing Data for MSATS v6.2](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/final-stage/standing-data-for-msats-v62.pdf?)  [MSATS Procedures - CATS v7.1](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/final-stage/msats-procedures---principles-and-obligations-for-all-connection-points-v71.pdf?) | MSRWP01 - MSR Package 1 | The r46 schema version shall support MSR Package 1 requirements related to the Legacy Meter Replacement Plan and Site Defects, including the following new elements:   * LegacyMtrReplacementPlan * DefectFlag * DefectType * DefectIssuingMC |
| B2B | MSR | [B2B Procedure One Way Notification Process v3.9](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/b2b-procedures-v39/final/b2b-procedure-one-way-notification-process-v39-clean-final-procedures.pdf?)  [B2B Procedure Service Order Process v3.9](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/b2b-procedures-v39/final/b2b-procedure-service-order-process-v39-change-marked-final-determination.pdf?) | MSRWP01 - MSR Package 1 | The r46 schema version shall support additional transaction subtypes and enumerations for MSR Package 1 requirements for defects and ‘One In All’ In meter replacements. Changes include:   * New Service Order Request subtypes for Supply Service Works (SSW) to support ‘One In All In’:   + Temporary Isolation–Scoping Request   + Temporary Isolation-One In All In   + Install Meter Isolation Device * New and amended enumerations for the Legacy Meter Replacement Plan and ‘One In All In’:   + RegClassification   + PurposeOfRequest   + ExceptionCode |
| B2M & B2B | ICF Package | [B2B Procedure Service Order Process v3.9](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/b2b-procedures-v39/final/b2b-procedure-service-order-process-v39-change-marked-final-determination.pdf?)  [B2B Procedure Technical Delivery Specification Process v3.9](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/b2b-procedures-v39/final/b2b-procedure-technical-delivery-specification-v39-clean-final-procedures.pdf" \o "technical v39 clean" \t "_blank) | Work Package 2 – B002/22  MSRWP02 -ICF Package | The r46 schema version shall support the following changes:   * HouseNumberTo: Update in the B2B technical procedure only. No aseXML change for this element. * HouseNumberToSuffix: Update in the B2B technical procedure only. No aseXML change for this element. * HazardDescription: Change the maximum length value from 80 to 100. * LocationDescriptor: Change the maximum length value from 30 to 200. (Update in the B2B technical procedure. No aseXML change for this element.) * FormReference: Change the maximum length value from 30 to 20 character. * FormNumber: Change the maximum length value from 15 to 20 character. |
| B2M & B2B | ICF Package | [Standing Data for MSATS v6.2](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/final-stage/standing-data-for-msats-v62.pdf?)  [MSATS Procedures - CATS v7.1](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/final-stage/msats-procedures---principles-and-obligations-for-all-connection-points-v71.pdf?)  [B2B Procedure Technical Delivery Specification Process v3.9](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/b2b-procedures-v39/final/b2b-procedure-technical-delivery-specification-v39-clean-final-procedures.pdf" \o "technical v39 clean" \t "_blank) | Work Package 2 - Alignment of Addressing to AS4590.1.2017 and B2B & B2M field alignment(ICF-078)  ICF-078 & B004/22 | The r46 schema version shall support the following changes for B2M and B2B:   * BuildingOrPropertyName: Updated the maximum length from 30 to 50 character. * BuildingOrPropertyName2: This field will be added as an option field both B2M and B2B and Maximum length will be 50 characters. * FloorOrLevelType: Updated the maximum length from 2 to 4 character and 4 new enumerations will be added in the procedure list. Following 4 enumerations will be added in AS4590.1:2017:   + LL - LOWER LEVEL   + PTHS - PENTHOUSE   + PL - PLATFORM   + PD - PODIUM * StreetName: Updated the maximum length from 30 to 45 character. * FlatOrUnitType: 9 new enumerations will be added in the procedure list. * StreetType: Add comments for 5 enums ~~i~~n the schema to describe the name mapping from AS4590.1:2017 to the aseXML. * FRTL - FITR - FIRETRAIL * AV - AVE - AVENUE * CR - CRSE - CRESCENT * GLDE – GLD - GLADE * PWY – PKWY - PARKWAY |

1. Proposed Changes

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 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 | Add 4 new fields for NMI standing data for MSR Package 1:   * + LegacyMtrReplacementPlan   + DefectFlag   + DefectType   + DefectIssuingMC   Add the above elements to existing **ElectricityNMIMasterGroup** and **ElectricityMasterStandingData** elements | New |
| 2 | * Add new Service Order Request subtypes for Supply Service Works (SSW) to support One-in-all-in: * Temporary Isolation-Scoping Request * Temporary Isolation-One In All In * Add new Service Order Request subtypes for Metering Service Works (MSW) to support One-in-all-in: * Install Meter Isolation Device | New |
| 3 | New and amended enumerations for LMRP and one-in-all-in:   * RegClassification * PurposeOfRequest * ResponseCode * ReasonForNotice | Update |
| 4 | Modify existing elements for amended fields as part of MSR Package 2 related to B002/22   * HazardDescription: Change the maximum length value from 80 to 100. | Update |
| 5 | As of B002/22 following B2B changes will be implemented:   * FormReference: Change the maximum length value from 30 to 20 character * FormNumber: Change the maximum length value from 15 to 20 character. | Update |
| 6 | As of ICF-078 & B004/22 following changes will be implemented for B2M and B2B:   * BuildingOrPropertyName: Updated the maximum length from 30 to 50 character and removed the maxoccurence attribute. * BuildingOrPropertyName2: This field will be added as an option field both B2M and B2B and Maximum length will be 50 characters. * FloorOrLevelType: Updated the maximum length from 2 to 4 character and 4 new enumerations will be added in the procedure list. Following 4 enumerations will be added in AS4590:   + LL - LOWER LEVEL   + PTHS - PENTHOUSE   + PL - PLATFORM   + PD - PODIUM * StreetName: Updated the maximum length from 30 to 45 character. * FlatOrUnitType: Comments will be added for following 9 enums   + DUPL - DUP - DUPLEX   + FCTY - FY - FACTORY   + FLAT – F - FLAT   + MBTH – MB - MARINE BERTH   + OFFC – OFF - OFFICE   + ROOM - RM - ROOM   + STLL - SL - STALL   + UNIT - U - UNIT   + WHSE - WE – WAREHOUSE * StreetType: Comments are added for 5 enums in the schema to describe the name mapping from AS4590.1:2017 to the aseXML.   + FRTL - FITR - FIRETRAIL   + AV - AVE - AVENUE   + CR - CRSE - CRESCENT   + GLDE – GLD - GLADE   + PWY – PKWY - PARKWAY | New/Update |

1. Change Details

### Change Description

**MSR Package 1 New B2M Fields**

As part of Metering Services Review Project, Legacy Meter Retirement Plans (LMRP) will be implemented for a structured 2025–2030 acceleration period. DNSPs will develop and execute LMRP for type 5 and 6 (legacy) metering replacement. This includes a schedule for each 12-month period, commencing 2025 to 2030.

The B2M schema changes required for MSR package 1 are as follows**:**

* **Addition of following new fields to existing ElectricityNMIMasterGroup and ElectricityMasterStandingData:** 
  + **LegacyMtrReplacementPlan**
  + **DefectFlag**
  + **DefectType**
  + **DefectIssuingMC**
* **Update version attribute of following existing elements from r44 to r46:**
  + **ElectricityNMIMasterRow**
  + **ElectricityNMIMasterRowBDT**
  + **ElectricityCATSChangeRequestNMIMasterRow and**
  + **ElectricityStandingData**

**ICF\_078 - B004/22 Amended B2M and B2B Fields**

As part of ICF-078 & B004/22 following changes will be implemented for B2M and B2B:

Common schema changes required are as follows:

* **BuildingOrPropertyName** 
  + **Update AustralianBuildingOrPropertyName element length from 30 to 50 characters.**
  + **Remove max occurrence attribute for BuildingOrPropertyName from ‘AustralianStructuredAddressPartialComponents’ and ‘AustralianStructuredAddressComponents’ elements.**
* **BuildingOrPropertyName2: This field will be added as an option field both B2M and B2B and Maximum length will be 50 characters.**
  + **Add new element as ‘BuildingOrPropertyName2’ of type ‘AustralianBuildingOrPropertyName’ to existing complex types ‘AustralianStructuredAddressPartialComponents’ and ‘AustralianStructuredAddressComponents’ elements.**
* **FloorOrLevelType:** 
  + **Update ‘AustralianFloorOrLevelType’** **enum length from 2 to 4 characters.**
  + **Add following 4 enums to match the name mapping as per AS4590:**
    - **LL - LOWER LEVEL**
    - **PTHS - PENTHOUSE**
    - **PL - PLATFORM**
    - **PD - PODIUM**
* **StreetName:** 
  + **Updated length of ‘AustralianStreetName’ from 30 to 45 character.**
* **FlatOrUnitType:** 
  + **Add comments for name mapping according to AS4590.1:2017** **to the following 9 enums for ‘AustralianFlatOrUnitType’ type:**
    - **DUPL - DUP - DUPLEX**
    - **FCTY - FY - FACTORY**
    - **FLAT – F - FLAT**
    - **MBTH – MB - MARINE BERTH**
    - **OFFC – OFF - OFFICE**
    - **ROOM - RM - ROOM**
    - **STLL - SL - STALL**
    - **UNIT - U - UNIT**
    - **WHSE - WE – WAREHOUSE**
* **StreetType:** 
  + **Add comments for name mapping according to AS4590.1:2017 to the following 5 enums for ‘AustralianStreetType’ type:**
    - **FRTL - FITR - FIRETRAIL**
    - **AV - AVE - AVENUE**
    - **CR - CRSE - CRESCENT**
    - **GLDE – GLD - GLADE**
    - **PWY – PKWY - PARKWAY**

**MSR Package 1 B2B transaction changes – LMRP, Defects, One In All In**

As part of Metering Services Review Project, a number of changes to existing B2B transaction changes have been identified by the IEC.

The B2B schema changes required for MSR package 1 are as follows**:**

* **Add new Service Order Request subtypes for Supply Service Works (SSW) to support One-in-all-in:**
  + **Temporary Isolation-Scoping Request**
  + **Temporary Isolation-One In All In**
* **Add new Service Order Request subtypes for Metering Service Works (MSW) to support One-in-all-in:**
  + **Install Meter Isolation Device**
* **New and amended enumerations to support B2B transactions:**
  + **RegClassification** 
    - **Add 3 new enums:**
* **LMRP**
* **One In All In**
* **Family Failure**
  + **PurposeOfRequest**
    - **Add 1 enum**
* **Remediation Advised**
  + - **Remove 1 enum**
* **Family Failure**
  + **ResponseCode**
    - **Add following new enums:**
* **Defect**
* **Appointment Required**
* **Comms Refused**
* **Coordination Failure**
* **Demolished**
* **Dog**
* **Incorrect Service Order**
* **Mismatch with Standing Data**
* **Natural Event**
* **No Access-Network Support Required**
* **No Adult Present**
* **Not FRMP**
* **Obstruction**
* **Shared Fuse-Scoping Required**
* **Site Not Ready**
* **Unable To Isolate**
* **Unable To Locate Site**
  + **ReasonForNotice**
    - **Add 1 enum**
* **One In All In**

**MSR Package 1 B002/22 – ICF Amended B2B Fields**

As part of B002/22 following changes will be implemented for B2B:

Schema changes required are as follows:

* **FormReference: Decrease the maximum length value from 30 to 20 character.**
* **FormNumber: Increase the maximum length value from 15 to 20 character.**
* **HazardDescription: Increase the maximum length value from 80 to 100.**

## Reason for Change

To enable an acceleration of installation of smart meters, the rule outlines a regulatory change that requires Distribution Network Service Providers to gradually phase out their type 5 and type 6 meters (legacy meters) from 2025 to 2030 through a Legacy Meter Replacement Plan (LMRP).

To facilitate the accelerated deployment of smart meters, the LMRP will be strengthened with new requirements for sites with defects and shared isolation. Sites identified with defects are a barrier to the deployment of smart meters. The rule requires a formal defect tracking process which will require MCs to record a defect and for retailers to record customer notifications. In addition, there will be new obligations for industry coordination between DNSPs, Retailers and Metering Coordinators for sites with shared fuse replace legacy meters with smart meters. To streamline the process, retailer notifications to customers will be reduced from two to one, and the opt-out provision will be removed.

Finally, the rule requires AEMO to develop an asset management strategy to ensure MCs have a testing and inspection strategy in place to assess meter accuracy, having regard to the costs and benefits to consumers.

Work Package 2 changes will be implemented to align the address standard in B2M Procedures with the AS4590.1:2017 standard, superseding the current NEM addressing, which is based on the AS4590-1999 standard. This will resolve discrepancies related to field length, enumerated values etc.

This initiative will:

* Ensure accurate, complete address data, leading to better service delivery and customer trust.
* Harmonize data standards between B2B and B2M, reducing operational errors and the potential for data discrepancies, leading to cost savings.

Schema changes are implemented to cater the following project requirements for MSR:

Accelerating Smart Meter Role Out including LMRP, site defects, one-in-all-in processes and matters critical to the go-live commencement.

ICFs including auto population of LCCD and alignment of address to AS4590.1.2017, B2M and B2B field alignment.

## Supplied Documents

Not applicable.

### Business process document

The consulation for the October 2025 release is being run by both AEMO and the IEC through the B2B Working Group. While the final report for both these consulations is yet to be published, AEMO has based CR75 on the finalised, but unpublished version of the documents in Table 3. The rational behind seeking approval from the ASWG for a schema version prior to the publishing of the final is to provide as much time as possible to participants to progress their system changes.

|  |  |  |
| --- | --- | --- |
| **Market Segment** | **Work Package** | **Final Procedure** |
| NEM B2M | MSR Package 1 | [Metering Services Review Package 1 Final Determination (Final Stage)](https://aemo.com.au/consultations/current-and-closed-consultations/2024-metering-services-review-package-1)   * Standing Data for MSATS v6.1 * [Standing Data for MSATS v6.2](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/metering-services-review/standing-data-for-msats-v61-change-marked-1.pdf?la=en&hash=25DAA59D1E86D5FA6024F437F40E2BFE) * MSATS Procedures - Principles and Obligations for All Connection Points v7.0 * [MSATS Procedures - Principles and Obligations for All Connection Points v7.1](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/metering-services-review/msats-procedures--principles-and-obligations-for-all-connection-points-v71-change-marked-2.pdf?la=en&hash=CD62650C28B4D22684B99F6F2C695FC8) |
| NEM B2B | MSR Package 1 | [B2B Procedures v3.9 (Final Stage)](https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v39)   * [B2B Procedure One Way Notification Process v3.9](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/b2b-procedures-v39/second-stage-consultation/b2b-procedure-one-way-notification-process-v39-change-marked-draft.pdf?la=en) * [B2B Procedure Service Order Process v3.9](https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v39) * B2B Procedure Technical Delivery Specification v3.9 * B2B Procedures Customer and Site Details Notification Process v3.9 |
| IEC - B002/22 B2B Working Group Enhancement | [B2B Procedures v3.9 (Final Stage)](https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v39)   * [B2B Procedure Service Order Process v3.9](https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v39) * B2B Procedure Technical Delivery Specification v3.9 |
| Common | ICF\_078 ERCF Enhancement  IEC - B004/22 B2B Working Group Enhancement | [Metering Services Review Package 1 Final Determination (Final Stage)](https://aemo.com.au/consultations/current-and-closed-consultations/2024-metering-services-review-package-1)   * [Standing Data for MSATS v6.2](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2024/2024-metering-services-review-package-1/metering-services-review/standing-data-for-msats-v61-change-marked-1.pdf?la=en&hash=25DAA59D1E86D5FA6024F437F40E2BFE)   [B2B Procedures v3.9 (Final Stage)](https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v39)   * [B2B Procedure Service Order Process v3.9](https://aemo.com.au/consultations/current-and-closed-consultations/b2b-procedures-v39) * B2B Procedure Technical Delivery Specification v3.9 |

1. Business Process Documents

### Other

Not applicable.

## Baseline Schema

The schema used as a basis for this proposal is r45.

# 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 r44 to r46 * Rename file to r46 version. | aseXML\_r46.xsd |
| 2 |  | * Registration of r46 release * Rename file to r46 version. | Events\_r46.xsd |
| 3 | 1 | * Update version attribute of following existing elements from r43 to r46:   + ElectricityNMIMasterRow   + ElectricityNMIMasterRowBDT   + ElectricityCATSChangeRequestNMIMasterRow * Rename file to r46 version | CATSTableReplication\_r46.xsd |
| 4 | 6 | * Increase length of AustralianBuildingOrPropertyName from 30 to 50 * Increase length of AustralianStreetName from 30 to 45 * Remove maxoccurs=”2” attribute from BuildingOrPropertyName under AustralianStructuredAddressPartialComponents complex type. * Add a new element BuildingOrPropertyName2 to existing complex type AustralianStructuredAddressPartialComponents * Remove maxoccurs=”2” attribute from BuildingOrPropertyName under AustralianStructuredAddressComponents complex type. * Add a new element BuildingOrPropertyName2 to existing complex type AustralianStructuredAddressComponents * Rename file to r46 version | ClientInformation\_r46.xsd |
| 5 | 4 | * Increase length of HazardDescription from 80 to 100 * Rename file to r46 version | Common\_r46.xsd |
| 6 | 1,2,5 | * Add new element ‘DefectFlag’ as string type with length=1 * Add new element ‘DefectType’ as string type with length=15 * Add 3 new ServiceOrderSubType * Decrease length of FormReference from 30 to 20 * Increase length of FormNumber from 15 to 20 * Add new enum type to SORDResponseCode * Update version attribute of following existing elements:   + ElectricityStandingData (r43 to r46)   + ElectricityServiceOrderType (r36 to r46)   + ElectricityServiceOrderDetails (r41 to r46)   + ElectricityServiceOrderNotificationData (r36 to r46) * Rename file to r46 version | Electricity\_r46.xsd |
| 7 | 3 | * Added 3 new enums to RegClassification:   + Family Failure   + LMRP   + One In All In * Added 1 new enum to PurposeOfRequest:   + Remediation Advised * Removed 1 new enum to PurposeOfRequest:   + Family Failure * Added 1 new enum to ReasonForNotice:   + One In All In | ElectricityEnumerations.xsd |
| 8 | 1 | * Add 4 new elements to ElectricityNMIMasterGroup and ElectricityMasterStandingData   + LegacyMtrReplacementPlan   + DefectFlag   + DefectType   + DefectIssuingMC * Rename file to r46 version. | ElectricityMasterStandingData\_r46.xsd |
| 9 | 6 | * Add comments for 9 enums to match name mapping for AustralianFlatOrUnitType   + DUPL - DUP - DUPLEX   + FCTY - FY - FACTORY   + FLAT - F - FLAT   + MBTH - MB - MARINE BERTH   + OFFC - OFF - OFFICE   + ROOM - RM - ROOM   + STLL - SL - STALL   + UNIT - U - UNIT   + WHSE - WE – WAREHOUSE * Increase length of AustralianFloorOrLevelType from 2 to 4 * Added 4 new enums to AustralianFloorOrLevelType:   + LL - LOWER LEVEL   + PTHS - PENTHOUSE   + PL - PLATFORM   + PD - PODIUM * Add comments for 5 enums to match name mapping for AustralianStreetType   + FRTL - FITR - FIRETRAIL   + AV - AVE - AVENUE   + CR - CRSE - CRESCENT   + GLDE - GLD - GLADE   + PWY - PKWY - PARKWAY | Enumerations.xsd |
| 10 | 2 | * Update version attribute of MeterFaultAndIssueNotification existing elements from r36 to r46 | OneWayNotification\_r46.xsd |

1. Change Log

### Schema change description

#### aseXml\_r46.xsd

* New file to replace aseXML\_r44.xsd and include the r46 file versions listed below.

<xsd:schema xmlns="urn:aseXML:r46" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" targetNamespace="urn:aseXML:r46" version="r46" xsi:schemaLocation="urn:aseXML:r46 aseXML\_r46.xsd">

<xsd:include schemaLocation="CATSTableReplication\_r46.xsd">

<xsd:include schemaLocation="ClientInformation\_r46.xsd">

<xsd:include schemaLocation="Common\_r46.xsd">

<xsd:include schemaLocation="Electricity\_r46.xsd">

<xsd:include schemaLocation="ElectricityMasterStandingData\_r46.xsd"/>

<xsd:include schemaLocation="Events\_r46.xsd">

<xsd:include schemaLocation="OneWayNotification\_r46.xsd">

#### CATSTableReplication\_r46.xsd

* Updated version attribute of following existing elements from r43 to r46:
  + ElectricityNMIMasterRow
  + ElectricityNMIMasterRowBDT
  + ElectricityCATSChangeRequestNMIMasterRow
* Rename file to r46 version.

<!-- 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="r46" use="optional" default="r46"/>

</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="r46" use="optional" default="r46"/>

</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="r46" use="optional" default="r46"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

#### ClientInformation\_r46.xsd

* Increase length of AustralianBuildingOrPropertyName from 30 to 50.
* Increase length of AustralianStreetName from 30 to 45.
* Remove maxoccurs=”2” attribute from BuildingOrPropertyName under AustralianStructuredAddressPartialComponents complex type.
* Add a new element BuildingOrPropertyName2 to existing complex type AustralianStructuredAddressPartialComponents.
* Remove maxoccurs=”2” attribute from BuildingOrPropertyName under AustralianStructuredAddressComponents complex type.
* Add a new element BuildingOrPropertyName2 to existing complex type AustralianStructuredAddressComponents.
* Rename file to r46 version

<xsd:simpleType name="AustralianBuildingOrPropertyName">

<xsd:annotation>

<xsd:documentation>

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

</xsd:documentation>

</xsd:annotation>

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

<xsd:minLength value="1"/>

<xsd:maxLength value="50"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="AustralianStreetName">

<xsd:annotation>

<xsd:documentation>

Purpose - Define street name as per Australian Standard AS4590

</xsd:documentation>

</xsd:annotation>

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

<xsd:pattern value="[\p{L}\p{N}\s\-']{1,45}"/>

</xsd:restriction>

</xsd:simpleType>

<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"/>

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

<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: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"/>

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

<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"/>

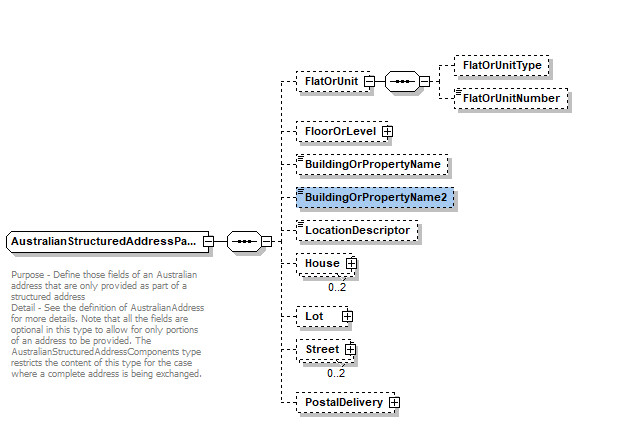
<xsd:element name="HouseNumberTo" type="AustralianHouseNumber" nillable="true" minOccurs="0"/>

<xsd:element name="HouseNumberToSuffix" type="AustralianHouseNumberSuffix" nillable="true"

minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>



#### Common\_r46.xsd

* Increase length of HazardDescription from 80 to 100
* Rename file to r46 version

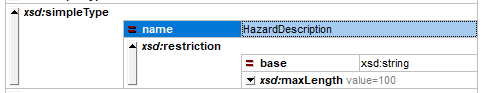
<xsd:simpleType name="HazardDescription">

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

<xsd:maxLength value="100"/>

</xsd:restriction>

</xsd:simpleType>



#### Electricity\_r46.xsd

* Add new element ‘DefectFlag’ as string type with length=1
* Add new element ‘DefectType’ as string type with length=15
* Decrease length of FormReference from 30 to 20
* Increase length of FormNumber from 15 to 20
* Add 3 new ServiceOrderSubType
  + Install Meter Isolation Device
  + Temporary Isolation-Scoping Request
  + Temporary Isolation-One In All In
* Add following new enum types for SORDResponseCode
  + Defect
  + Appointment Required
  + Comms Refused
  + Coordination Failure
  + Demolished
  + Dog
  + Incorrect Service Order
  + Mismatch with Standing Data
  + Natural Event
  + No Access-Network Support Required
  + No Adult Present
  + Not FRMP
  + Obstruction
  + Shared Fuse-Scoping Required
  + Site Not Ready
  + Unable To Isolate
  + Unable To Locate Site
* Update version attribute of following existing elements from r36 to r46:
  + ElectricityServiceOrderType
  + ElectricityServiceOrderNotificationData
* Update version attribute of following existing elements from r41 to r46:
  + ElectricityServiceOrderDetails
* Update version attribute of following existing elements from r43 to r46:
  + ElectricityStandingData
* Rename file to r46 version

<xsd:simpleType name="DefectFlag">

<xsd:annotation>

<xsd:documentation>

Purpose - Flag to indicate if the metering coordinator encounter customer-site defects preventing meter exchanges

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="1"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="DefectType">

<xsd:annotation>

<xsd:documentation>

Purpose - Indicates what type of customer-site defect which prevents meter exchanges encountered by the metering coordinator

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="15"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:complexType name="DocumentReferenceType">

<xsd:sequence>

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

<xsd:simpleType>

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

<xsd:maxLength value="20"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:element>

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

<xsd:simpleType>

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

<xsd:maxLength value="20"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:element>

</xsd:sequence>

</xsd:complexType>

<xsd:simpleType name="ServiceOrderSubType">

<xsd:annotation>

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

</xsd:annotation>

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

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

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

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

<xsd:enumeration value="Install Controlled Load"/>

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

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

<xsd:enumeration value="Install Meter Isolation Device"/>

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

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

<xsd:enumeration value="Check Read"/>

<xsd:enumeration value="Final Read"/>

<xsd:enumeration value="Allocate NMI"/>

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

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

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

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

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

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

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

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

<xsd:enumeration value="Remote"/>

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

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

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

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

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

<xsd:enumeration value="Temporary Isolation-Scoping Request"/>

<xsd:enumeration value="Temporary Isolation-One In All In"/>

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

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

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

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

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

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

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="SORDResponseCode">

<xsd:annotation>

<xsd:documentation>Purpose - Defines a list of valid response code for different types of service orders</xsd:documentation>

</xsd:annotation>

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

<xsd:enumeration value="Customer On-Site"/>

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

<xsd:enumeration value="De-energisation Not Completed Due To A Re-energisation"/>

<xsd:enumeration value="Documentation Not Provided"/>

<xsd:enumeration value="Metering Problem"/>

<xsd:enumeration value="Meter Reading Only Undertaken Due To Prior Re-energisation"/>

<xsd:enumeration value="New Customer On-Site"/>

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

<xsd:enumeration value="Other"/>

<xsd:enumeration value="Reading Problem"/>

<xsd:enumeration value="Request Submitted By Another Initiator"/>

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

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

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

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

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

<xsd:enumeration value="Unsafe"/>

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

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

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

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

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

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

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

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

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

<xsd:enumeration value="Defect"/>

<xsd:enumeration value="Appointment Required"/>

<xsd:enumeration value="Comms Refused"/>

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

<xsd:enumeration value="Demolished"/>

<xsd:enumeration value="Dog"/>

<xsd:enumeration value="Incorrect Service Order"/>

<xsd:enumeration value="Mismatch with Standing Data"/>

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

<xsd:enumeration value="No Access-Network Support Required"/>

<xsd:enumeration value="No Adult Present"/>

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

<xsd:enumeration value="Obstruction"/>

<xsd:enumeration value="Shared Fuse-Scoping Required"/>

<xsd:enumeration value="Site Not Ready"/>

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

<xsd:enumeration value="Unable To Locate Site"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:complexType name="ElectricityServiceOrderType">

<xsd:complexContent>

<xsd:extension base="ServiceOrderTypeBase">

<xsd:sequence>

<xsd:element name="WorkType">

<xsd:complexType>

<xsd:simpleContent>

<xsd:extension base="ServiceOrderType">

<xsd:attribute name="workSubType" type="ServiceOrderSubType" use="optional"/>

</xsd:extension>

</xsd:simpleContent>

</xsd:complexType>

</xsd:element>

</xsd:sequence>

<xsd:attribute name="version" type="r46" use="optional" default="r46"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="ElectricityServiceOrderDetails">

<xsd:annotation>

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

v36.1. WL. Change LifeSupport to be optional field.

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ServiceOrderRequestData">

<xsd:sequence>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

</xsd:sequence>

<xsd:attribute name="version" type="r46" use="optional" default="r46"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="ElectricityServiceOrderNotificationData">

<xsd:annotation>

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

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ServiceOrderNotificationData">

<xsd:sequence>

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

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

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

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

</xsd:sequence>

<xsd:attribute name="version" type="r46" use="optional" default="r46"/>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<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="r46" use="optional" default="r46"/>

</xsd:extension>

</xsd:complexContent>

#### ElectricityEnumerations.xsd

* Added 3 new enums to RegClassification:
  + Family Failure
  + LMRP
  + One In All In
* Added 1 new enum to PurposeOfRequest:
  + Remediation Advised
* Removed 1 new enum to PurposeOfRequest:
  + Family Failure
* Added 1 new enum to ReasonForNotice:
  + One In All In

<xsd:simpleType name="RegClassification">

<xsd:annotation>

<xsd:documentation>

Purpose - Use to indicate whether it is customer Initiated and regulatory timeframes apply, or not.

Version 1.0 additions

- Customer Initiated

- Malfunction

- New Meter Deployment

- Shared Fuse

- Other

Version 2.0 additions

- Family Failure

- LMRP

- One In All In

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="40"/>

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

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

<xsd:enumeration value="LMRP"/>

<xsd:enumeration value="Malfunction"/>

<xsd:enumeration value="New Meter Deployment"/>

<xsd:enumeration value="One In All In"/>

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

<xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="PurposeOfRequest">

<xsd:annotation>

<xsd:documentation>

Purpose - Used to clearly indicate the purpose of visit

Version 1.0 additions

- New connection

- Additional Meter

- Part of BTS Temp to Perm

- Part of supply alteration

- Bidirectional flows at premises

- Bypassed Customer

- Communications Remove

- Communications Install

- Revenue Protection

- Site Abolishment

- Family Failure

- Fault

- Retailer Led

- None

- Other

Version 2.0 addition

- Remediation Advised

Version 2.0 deletion

- Family Failure

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="40"/>

<xsd:enumeration value="New connection"/>

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

<xsd:enumeration value="Part of BTS Temp to Perm"/>

<xsd:enumeration value="Part of supply alteration"/>

<xsd:enumeration value="Bidirectional flows at premises"/>

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

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

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

<xsd:enumeration value="Revenue Protection"/>

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

<xsd:enumeration value="Fault"/>

<xsd:enumeration value="Remediation Advised"/>

<xsd:enumeration value="Retailer Led"/>

<xsd:enumeration value="None"/>

<xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="ReasonForNotice">

<xsd:annotation>

<xsd:documentation>

Purpose - Define the fixed Reasons for Notice

Version 1.0 additions

- Meter Family Failure

- Accuracy Failure

- Timeswitch/Controlled Load Failure

- Contactor Failure

- No Display

- Communication Failure

- Meter Verification

- Malfunction

- Area Event

- Metrology Threshold Breach

- Meter Bypassed

- Physical Damage

- Theft/Tampering

- Other

Version 2.0 additions

- One In All In

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="50"/>

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

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

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

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

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

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

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

<xsd:enumeration value="Malfunction"/>

<xsd:enumeration value="One In All In"/>

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

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

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

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

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

<xsd:enumeration value="Other"/>

</xsd:restriction>

</xsd:simpleType>

#### ElectricityMasterStandingData\_r46.xsd

* Add 4 new elements ‘LegacyMtrReplacementPlan’, ‘DefectFlag’, ‘DefectType’, ‘DefectIssuingMC’ to ElectricityNMIMasterGroup and ElectricityMasterStandingData
* Rename file to r46 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" 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"/>

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

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

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

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

</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"/>

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

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

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

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

</xsd:sequence>

</xsd:complexType>

#### Enumerations.xsd

* Add comments for 9 enums to match name mapping for AustralianFlatOrUnitType
  + DUPL - DUP - DUPLEX
  + FCTY - FY - FACTORY
  + FLAT – F - FLAT
  + MBTH – MB - MARINE BERTH
  + OFFC – OFF - OFFICE
  + ROOM - RM - ROOM
  + STLL - SL - STALL
  + UNIT - U - UNIT
  + WHSE - WE – WAREHOUSE
* Increase length of AustralianFloorOrLevelType from 2 to 4
* Added 4 new enums to AustralianFloorOrLevelType:
  + LL - LOWER LEVEL
  + PTHS - PENTHOUSE
  + PL - PLATFORM
  + PD - PODIUM
* Add comments for 5 enums to match name mapping for AustralianStreetType
  + FRTL - FITR - FIRETRAIL
  + AV - AVE - AVENUE
  + CR - CRSE - CRESCENT
  + GLDE – GLD - GLADE
  + PWY – PKWY - PARKWAY

<xsd:simpleType name="AustralianFlatOrUnitType">

<xsd:annotation>

<xsd:documentation>

Purpose - Define flat or unit types as per Australian Standard AS4590:2006

Version 4.0 additions

-- FLAT - FLAT

-- ANT - ANTENNA

…

…

…

Version 7.0 name mapping as per AS4590.1:2017

-- AS4590.1:2017 Abbreviation – aseXML Abbreviation - Name

-- DUPL - DUP - DUPLEX

-- FCTY - FY - FACTORY

-- FLAT – F - FLAT

-- MBTH – MB - MARINE BERTH

-- OFFC – OFF - OFFICE

-- ROOM - RM - ROOM

-- STLL - SL - STALL

-- UNIT - U - UNIT

-- WHSE - WE - WAREHOUSE

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="4"/>

<xsd:enumeration value="ANT"/>

<xsd:enumeration value="APT"/>

<xsd:enumeration value="ATM"/>

<xsd:enumeration value="BBQ"/>

<xsd:enumeration value="BLCK"/>

<xsd:enumeration value="BTSD"/>

…

…

…

<xsd:enumeration value="WE"/>

<xsd:enumeration value="WKSH"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="AustralianFloorOrLevelType">

<xsd:annotation>

<xsd:documentation>

Purpose - Define floor or level types as per Australian Standard AS4590:2006

Version 4.0 additions

-- LB - LOBBY

-- OD - OBSERVATION DECK

-- P - PARKING

-- RT - ROOFTOP

-- SB - SUB-BASEMENT

Version 5.0 additions

-- Element AustralianFloorOrLevelType has been restricted to 2 characters

Version 6.0 additions as per Australian Standard AS4590:2017

-- Element AustralianFloorOrLevelType has been restricted to 4 characters

-- LL - LOWER LEVEL

-- PTHS - PENTHOUSE

-- PL - PLATFORM

-- PD - PODIUM

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="4"/>

<xsd:enumeration value="B"/>

<xsd:enumeration value="FL"/>

<xsd:enumeration value="G"/>

<xsd:enumeration value="L"/>

<xsd:enumeration value="LB"/>

<xsd:enumeration value="LG"/>

<xsd:enumeration value="M"/>

<xsd:enumeration value="OD"/>

<xsd:enumeration value="P"/>

<xsd:enumeration value="UG"/>

<xsd:enumeration value="RT"/>

<xsd:enumeration value="SB"/>

<xsd:enumeration value="LL"/>

<xsd:enumeration value="PTHS"/>

<xsd:enumeration value="PL"/>

<xsd:enumeration value="PD"/>

</xsd:restriction>

</xsd:simpleType>

<xsd:simpleType name="AustralianStreetType">

<xsd:annotation>

<xsd:documentation>

Purpose - Define street types as per Australian Standard AS4590:2006.

Detail - There are several additions in this list over and above those defined in AS4590:2006. These additions are defined as follows:

-- GTWY - GATEWAY

-- HETH - HEATH

-- ISLD - ISLAND

…

…

…

Version 7.0 addition of comments

-- AS4590.1:2017 Abbreviation – aseXML Abbreviation - Name

-- FRTL - FITR - FIRETRAIL (FTRL (AS4590) is to be mapped to FITR (aseXML))

-- AV - AVE - AVENUE

-- CR - CRSE - CRESCENT

-- GLDE – GLD - GLADE

-- PWY – PKWY - PARKWAY

</xsd:documentation>

</xsd:annotation>

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

<xsd:maxLength value="4"/>

<xsd:enumeration value="ACCS"/>

<xsd:enumeration value="ALLY"/>

<xsd:enumeration value="ALWY"/>

<xsd:enumeration value="AMBL"/>

<xsd:enumeration value="ANCG"/>

<xsd:enumeration value="APP"/>

<xsd:enumeration value="ARC"/>

<xsd:enumeration value="ART"/>

<xsd:enumeration value="AVE"/>

<xsd:enumeration value="BASN"/>

<xsd:enumeration value="BAY"/>

<xsd:enumeration value="BCH"/>

<xsd:enumeration value="BEND"/>

<xsd:enumeration value="BLK"/>

<xsd:enumeration value="BVD"/>

<xsd:enumeration value="BOWL"/>

<xsd:enumeration value="BRCE"/>

<xsd:enumeration value="BRAE"/>

<xsd:enumeration value="BRK"/>

<xsd:enumeration value="BDGE"/>

<xsd:enumeration value="BDWY"/>

<xsd:enumeration value="BROW"/>

<xsd:enumeration value="BYPA"/>

<xsd:enumeration value="BYWY"/>

<xsd:enumeration value="CAUS"/>

<xsd:enumeration value="CRSE"/>

<xsd:enumeration value="CTR"/>

<xsd:enumeration value="CNWY"/>

…

…

…

<xsd:enumeration value="VUE"/>

<xsd:enumeration value="VWS"/>

<xsd:enumeration value="WDS"/>

<xsd:enumeration value="WTWY"/>

</xsd:restriction>

</xsd:simpleType>

#### Events\_r46.xsd

* New file to replace Events\_r43.xsd and include the r46 release identifier as below:

<xsd:simpleType name="r46">

<xsd:annotation>

<xsd:documentation>Purpose - Release r46 identifier.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="ReleaseIdentifier">

<xsd:enumeration value="r46"/>

</xsd:restriction>

</xsd:simpleType>

#### OneWayNotification\_r46.xsd

* Update version attribute of following existing elements from r36 to r46:
  + MeterFaultAndIssueNotification
* Rename file to r46 version.

<xsd:complexType name="MeterFaultAndIssueNotification">

<xsd:sequence>

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

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

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

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

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

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

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

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

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

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

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

</xsd:sequence>

<xsd:attribute name="version" type="r46" use="optional" default="r46"/>

#### </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\_r46.xsd |
| r46 |  |  |  | Events\_r46.xsd |
| ElectricityNMIMasterRow  ElectricityNMIMasterRowBDT  ElectricityCATSChangeRequestNMIMasterRow |  | ElectricityNMIMasterRow  ElectricityNMIMasterRowBDT  ElectricityCATSChangeRequestNMIMasterRow | ReplicationNotification  CATSBulkDataResponse | CATSTableReplication\_r46.xsd |
| AustralianBuildingOrPropertyName  AustralianStreetName | AustralianStructuredAddressPartialComponents  AustralianStructuredAddressComponents |  | CustomerDetailsNotification  LifeSupportNotification  ServiceOrderRequest  ServiceOrderResponse  CATSChangeRequest  CATSNotification  ReportResponse  ReplicationNotification  StandingDataResponse  NMIDiscoveryResponse  NMIDiscoveryRequest  AmendMeterRouteDetails/AmendSiteAccessDetails  AccountCreationNotification | ClientInformation\_r46.xsd |
| HazardDescription |  |  | SiteAccessNotification  ServiceOrderRequest  CATSChangeRequest  CATSNotification  ReportResponse  ReplicationNotification  StandingDataResponse  NMIDiscoveryResponse  AmendMeterRouteDetails/AmendSiteAccessDetails  AccountCreationNotification | Common\_r46.xsd |
| FormReference  FormNumber | DocumentReferenceType |  | ServiceOrderRequest | Electricity\_r46.xsd |
| ServiceOrderSubType SORDResponseCode |  | ElectricityServiceOrderType  ElectricityServiceOrderDetails  ElectricityServiceOrderNotificationData  ElectricityStandingData | ServiceOrderRequest  ServiceOrderResponse | Electricity\_r46.xsd |
| ElectricityServiceOrderDetails - RegClassification  PurposeOfRequest  ReasonForNotice | ElectricityServiceOrderDetails |  | ServiceOrderRequest | ElectricityEnumerations.xsd |
| ElectricityNMIMasterGroup  ElectricityMasterStandingData  (DefectFlag, DefectType, LegecyMtrReplacementPlan and DefectIssuingMC) | ElectricityCATSChangeRequestNMIMasterRow  ElectricityNMIMasterRowBDT  ElectricityNMIMasterRow | ElectricityStandingData | CATSChangeRequest  CATSNotification  ReportResponse  ReplicationNotification  StandingDataResponse  NMIDiscoveryResponse | ElectricityMasterStandingData\_r46.xsd |
| AustralianFlatOrUnitType  AustralianFloorOrLevelType  AustralianStreetType | AustralianStructuredAddressPartialComponents  AustralianStructuredAddressComponents |  | CustomerDetailsNotification  LifeSupportNotification  ServiceOrderRequest  ServiceOrderResponse  CATSChangeRequest  CATSNotification  ReportResponse  ReplicationNotification  StandingDataResponse  NMIDiscoveryResponse  NMIDiscoveryRequest  AmendMeterRouteDetails/AmendSiteAccessDetails  AccountCreationNotification | Enumerations.xsd |
|  |  | MeterFaultAndIssueNotification |  | OneWayNotification\_r46.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 6.0 SP1
* Xerces 2.2.1
* Xerces 2.2.9
* XMLSpy 2014

### 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 |
| B2M | Business-to-Market |
| LMRP | Legacy Meter Retirement Plans |
| MSR | Metering Services Review |
| NEM | National Electricity Market |

1. Change Type can be one of

   New

   Enhancement, or

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