|  |
| --- |
| aseXML SCHEMA CHANGE REQUEST – CR 74  |

Q1 2025

Gas Market B2B changes

Change request document B2B system enhancements

Version Control

|  |  |  |
| --- | --- | --- |
| Version | Release date | Changes |
| 0.1 | 18/11/2024 | Initial draft |
| 0.2 | 7/2/2025 | Updated to reflect WA not adopting r45 (i.e. remaining on r40) and minor error correction |
| 0.3 | 14/2/2025 | Updated with Danny McGowan comments |
| 0.4 | 21/3/2025 | Finalised after ASWG vote |

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# Change Proposal

On behalf of the GRCF, this Change Proposal requests the relocation of two Gas Market enumeration lists from aseXML schema versioned file (Gas\_r40) and into the Gas Markets aseXML schema non versioned file (GasEnumerations.xsd Version 2.0). This Change Proposal further requests creation of new, and update to existing, Gas Market enumerations resulting in creation of an r45 aseXML schema.

The GRCF considers these Gas Market only aseXML amendments will remediate existing business process issues and result in benefits experienced in East Coast Gas Retail Markets[[1]](#footnote-2).

Please note:

* The r45 aseXML schema ASWG CR submission is largely driven by critical NEM r46 aseXML schema creation timelines.
* As at the date of submitting this ASWG CR, Package 1 Gas Retail B2B Change consultation and AER Final Determination (relating to Distribution Tariffs) are both progress with any resulting GasEnumerations.xsd Version 2.0 updates to be formally managed as per AEMO and ASWG processes.
* Package 1 Gas Retail B2B Change consultation provides for Western Australian Gas Retail Markets to remain on r40 aseXML schema version

## Description of the proposed change

The proposed changes are listed in the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item#** | **Change Description** | **Change Type** | **GMI #** |
| 1 | **Remove** existing Special Read No Access (element name "ReasonForNoAccess”) enumerations from aseXML Gas\_r4n schema file  | Enhancement | IN002-22 |
| 2 | **Remove** existing DistributionTariff (element name ”DistributionTariff”) enumerations from aseXML Gas\_r4n schema file  | Enhancement | IN004-22 |
| 3 | **Insert** existing Special Read No Access (element name"ReasonForNoAccess”) enumerations removed from Gas\_r4n schema file into GasEnumerations.xsd (creating Version 2.0) | Enhancement | IN002-22 |
| 4 | **Insert** existing ‘DistributionTariff’ (element name ”DistributionTariff”) enumerations removed from Gas\_r4n schema file into GasEnumerations.xsd (creating Version 2.0) | Enhancement | IN004-22 |
| 5 | **Update** existing Special Read No Access (element name = "ReasonForNoAccess”) enumeration values:* Change "Locked and No Answer" to ‘Locked Premises’
* Change "Savage Dog" to ‘Dog on Premises’
* Change "Can't Locate Meter"’ to ‘Cannot Locate Meter’
 | Enhancement | IN002-22 |
| 6 | **Add** new Special Read No Access (element name = "ReasonForNoAccess”) enumeration values:* Communications Fault
* Extreme Weather Conditions
* Hi/Low Failure
* Meter Capacity Failure
* Meter high / ladder required
* Operational System Condition
* Quarantined Premises
* Remote Read Device Out of Alignment
* Remote Read Device Not Registering
* Resource Limitations
* Unsafe equipment / location
* Unable to Locate Premises
* Vacant Premises
 | Enhancement | IN002-22 |
| 7 | **Add** new ‘DistributionTariff’ (element name ”DistributionTariff”) enumeration values:* Volume High
* Volume Boundary
 | Enhancement | IN004-22 |

1. Proposed Changes

## Reason for Change

This Change Proposal refers to two GRCF Gas Market Initiatives (GMIs) where the GRCF proposes the requested aseXML changes will enable:

* GMI IN002-22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations
	+ Market Participants to more efficiently identify field issues related to Scheduled meter reads and Special Read events
	+ Consolidation and Standarisation resulting in improved consistent use and leading to improved customer service and quality of information to Retailers
* GMI IN004-22: Proposed Improvements to Network Tariff B2B Notification – NSW/ACT
	+ Improve the efficiency of the operation of the gas market via more accurate retailer quotation and billing.
	+ Improve price and quality outcomes for consumers by minimising the frustration from bills based on an incorrect distribution tariff which is not readily pre-discoverable before quoting and churn.

These two initiatives have progressed to the formal consultation in ‘Package 1 Gas Retail B2B Changes’. Click [here](https://www.aemo.com.au/consultations/current-and-closed-consultations/package-1-gas-retail-b2b-changes) for further information.

## Supplied Documents

### GRCF Gas Retail GMIs requiring this Change Request

* + GMI IN002-22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations - [Link](https://aemo.com.au/consultations/current-and-closed-consultations/package-1-gas-retail-b2b-changes)
	+ GMI IN004-22: Proposed Improvements to Network Tariff B2B Notification – NSW/ACT - [Link](https://aemo.com.au/consultations/current-and-closed-consultations/package-1-gas-retail-b2b-changes)

### AEMO Gas Retail Build Packs impacted by this Change Request

|  |  |  |
| --- | --- | --- |
| **Title** | **GMI IN002/22****(Sub/Est)** | **GMI IN004/22****(Network Tariff)** |
| **Participant Build Pack 1 - Table of transactions**  | ü |  |
| **Participant Build Pack 1 - CSV Data Format Specifications** | ü |  |
| **Participant Build Pack 2 – System Interface Definitions** | ü |  |
| **Participant Build Pack 3- B2B System Interface Definitions**  | ü |  |
| **Participant Build Pack 5 - NSW-ACT** | ü | ü |
| **FRC B2B System Interface Definitions** | ü |  |

## Baseline Schema

The schema used as a basis for this proposal is r44.

# 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 r45

Rename file to r45 version. | aseXML\_r45.xsd |
| 2 |  | * Registration of r45 release

Rename file to r45 version. | Events\_r45.xsd |
| 3 | 2 | * Added TariffType simple type (relocated from Gas\_r40.xsd file). Included additional values:
	+ Volume High
	+ Volume Boundary
* Added ReasonForNoAccess simple type (relocated from Gas\_r40.xsd file). Included additional values:
	+ Communications Fault
	+ Extreme Weather Conditions
	+ Hi/Low Failure
	+ Meter Capacity Failure
	+ Meter high / ladder required
	+ Operational System Condition
	+ Quarantined Premises
	+ Remote Read Device Out of Alignment
	+ Remote Read Device Not Registering
	+ Resource Limitations
	+ Unsafe equipment / location
	+ Unable to Locate Premises
	+ Vacant Premises

Updated existing values:* Change "Locked and No Answer" to ‘Locked Premises’
* Change "Savage Dog" to ‘Dog on Premises’
* Change "Can't Locate Meter"’ to ‘Cannot Locate Meter’
 | GasEnumerations.xsd |
| 4 |  | * Removed TariffType simple type. (Moved to GasEnumerations.xsd file)
* Removed ReasonForNoAccess simple type. (Moved to GasEnumerations.xsd file)

Rename file to r45 version | Gas\_r45.xsd |
|  |  |  |  |

1. Change Log

### Schema change description

#### aseXml\_r45.xsd

* New file to replace aseXML\_r44.xsd and include the r45 file versions listed below.

<xsd:schema xmlns="urn:aseXML:r45" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" targetNamespace="urn:aseXML:r45" version="r45" xsi:schemaLocation="urn:aseXML:r45 aseXML\_r45.xsd">

 <xsd:include schemaLocation="Gas\_r45.xsd">

#### Events\_r45.xsd

Add new r45 version tag.

 <xsd:simpleType name="r45">

 <xsd:annotation>

 <xsd:documentation>Purpose - Release r45 identifier.</xsd:documentation>

 </xsd:annotation>

 <xsd:restriction base="ReleaseIdentifier">

 <xsd:enumeration value="r45"/>

 </xsd:restriction>

 </xsd:simpleType>

#### Gas\_r45.xsd

Remove the following enumerated lists to be transferred to GasEnumerations.xsd file.

 ~~<xsd:simpleType name="DistributionTariff">~~

 ~~<xsd:annotation>~~

 ~~<xsd:documentation>Schema - Gas</xsd:documentation>~~

 ~~</xsd:annotation>~~

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

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

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

 ~~<xsd:enumeration value="1A1R"/>~~

 ~~<xsd:enumeration value="1A2R"/>~~

 ~~<xsd:enumeration value="1B1R"/>~~

 ~~<xsd:enumeration value="1B2R"/>~~

 ~~<xsd:enumeration value="1B3R"/>~~

 ~~<xsd:enumeration value="1A1N"/>~~

 ~~<xsd:enumeration value="1A2N"/>~~

 ~~<xsd:enumeration value="1B1N"/>~~

 ~~<xsd:enumeration value="1B2N"/>~~

 ~~<xsd:enumeration value="1B3N"/>~~

 ~~<xsd:enumeration value="1D1R"/>~~

 ~~<xsd:enumeration value="1D2R"/>~~

 ~~<xsd:enumeration value="1D3R"/>~~

 ~~<xsd:enumeration value="1D1N"/>~~

 ~~<xsd:enumeration value="1D2N"/>~~

 ~~<xsd:enumeration value="1D3N"/>~~

 ~~<xsd:enumeration value="1K1R"/>~~

 ~~<xsd:enumeration value="1K2R"/>~~

 ~~<xsd:enumeration value="1K3R"/>~~

 ~~<xsd:enumeration value="1K1N"/>~~

 ~~<xsd:enumeration value="1K2N"/>~~

 ~~<xsd:enumeration value="1K3N"/>~~

 ~~<xsd:enumeration value="1V1R"/>~~

 ~~<xsd:enumeration value="1V2R"/>~~

 ~~<xsd:enumeration value="1V3R"/>~~

 ~~<xsd:enumeration value="1V1N"/>~~

 ~~<xsd:enumeration value="1V2N"/>~~

 ~~<xsd:enumeration value="1V3N"/>~~

 ~~<xsd:enumeration value="1Demand"/>~~

 ~~<xsd:enumeration value="2Demand"/>~~

 ~~<xsd:enumeration value="3Demand"/>~~

 ~~<xsd:enumeration value="4Demand"/>~~

 ~~<xsd:enumeration value="5Demand"/>~~

 ~~<xsd:enumeration value="6Demand"/>~~

 ~~<xsd:enumeration value="7Demand"/>~~

 ~~<xsd:enumeration value="8Demand"/>~~

 ~~<xsd:enumeration value="9Demand"/>~~

 ~~<xsd:enumeration value="0Demand"/>~~

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

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

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

 ~~</xsd:restriction>~~

 ~~</xsd:simpleType>~~

 ~~<xsd:simpleType name="ReasonForNoAccess">~~

 ~~<xsd:annotation>~~

 ~~<xsd:documentation>Schema - Common</xsd:documentation>~~

 ~~</xsd:annotation>~~

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

 ~~<xsd:enumeration value="Access Overgrown"/>~~

 ~~<xsd:enumeration value="Can't Locate Meter"/>~~

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

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

 ~~<xsd:enumeration value="Dirty Dial"/>~~

 ~~<xsd:enumeration value="Gate Locked"/>~~

 ~~<xsd:enumeration value="Key Required"/>~~

 ~~<xsd:enumeration value="Locked and No Answer"/>~~

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

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

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

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

 ~~<xsd:enumeration value="Refused Access"/>~~

 ~~<xsd:enumeration value="Savage Dog"/>~~

 ~~</xsd:restriction>~~

 ~~</xsd:simpleType>~~

#### GasEnumerations.xsd

Add the following enumerations lists updated and migrated from Gas\_r45.xsd file. Items in green are updated from previous values. Items in yellow are newly added to the list.

 <xsd:simpleType name="DistributionTariff">

 <xsd:annotation>

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

 </xsd:annotation>

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

 <xsd:enumeration value="Demand"/>

 <xsd:enumeration value="Volume"/>

 <xsd:enumeration value="1A1R"/>

 <xsd:enumeration value="1A2R"/>

 <xsd:enumeration value="1B1R"/>

 <xsd:enumeration value="1B2R"/>

 <xsd:enumeration value="1B3R"/>

 <xsd:enumeration value="1A1N"/>

 <xsd:enumeration value="1A2N"/>

 <xsd:enumeration value="1B1N"/>

 <xsd:enumeration value="1B2N"/>

 <xsd:enumeration value="1B3N"/>

 <xsd:enumeration value="1D1R"/>

 <xsd:enumeration value="1D2R"/>

 <xsd:enumeration value="1D3R"/>

 <xsd:enumeration value="1D1N"/>

 <xsd:enumeration value="1D2N"/>

 <xsd:enumeration value="1D3N"/>

 <xsd:enumeration value="1K1R"/>

 <xsd:enumeration value="1K2R"/>

 <xsd:enumeration value="1K3R"/>

 <xsd:enumeration value="1K1N"/>

 <xsd:enumeration value="1K2N"/>

 <xsd:enumeration value="1K3N"/>

 <xsd:enumeration value="1V1R"/>

 <xsd:enumeration value="1V2R"/>

 <xsd:enumeration value="1V3R"/>

 <xsd:enumeration value="1V1N"/>

 <xsd:enumeration value="1V2N"/>

 <xsd:enumeration value="1V3N"/>

 <xsd:enumeration value="1Demand"/>

 <xsd:enumeration value="2Demand"/>

 <xsd:enumeration value="3Demand"/>

 <xsd:enumeration value="4Demand"/>

 <xsd:enumeration value="5Demand"/>

 <xsd:enumeration value="6Demand"/>

 <xsd:enumeration value="7Demand"/>

 <xsd:enumeration value="8Demand"/>

 <xsd:enumeration value="9Demand"/>

 <xsd:enumeration value="0Demand"/>

 <xsd:enumeration value="Commercial"/>

 <xsd:enumeration value="Negotiated"/>

 <xsd:enumeration value="NegotiatedVolume"/>

 <xsd:enumeration value="Volume High"/>

 <xsd:enumeration value="Volume Boundary"/>

 </xsd:restriction>

 </xsd:simpleType>

 <xsd:simpleType name="ReasonForNoAccess">

 <xsd:annotation>

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

 </xsd:annotation>

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

 <xsd:enumeration value="Access Overgrown"/>

 <xsd:enumeration value="Cannot Locate Meter"/>

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

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

 <xsd:enumeration value="Dirty Dial"/>

 <xsd:enumeration value="Gate Locked"/>

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

 <xsd:enumeration value="Locked Premises"/>

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

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

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

 <xsd:enumeration value="Other"/>

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

 <xsd:enumeration value="Dog on Premises"/>

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

 <xsd:enumeration value="Extreme Weather Conditions"/>

 <xsd:enumeration value="Hi/Low Failure"/>

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

 <xsd:enumeration value="Meter high / ladder required"/>

 <xsd:enumeration value="Operational System Condition"/>

 <xsd:enumeration value="Quarantined Premises"/>

 <xsd:enumeration value="Remote Read Device Out of Alignment"/>

 <xsd:enumeration value="Remote Read Device Not Registering"/>

 <xsd:enumeration value="Resource Limitations"/>

 <xsd:enumeration value="Unsafe equipment / location"/>

 <xsd:enumeration value="Unable to Locate Premises"/>

 <xsd:enumeration value="Vacant Premises"/>

 </xsd:restriction>

 </xsd:simpleType>

### Impact Summary

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modified types** | **Derived types** | **Versioned types affected** | **Transactions potentially affected** | **Schema files affected** |
| ReasonForNoAccess |  |  | ServiceOrderResponse | Gas\_r40.xsdGasEnumerations.xsd |
| DistributionTariff |  | GasMultiMeterMasterStandingDataTypeGasMasterStandingData | NMIStandingDataResponseServiceOrderResponseServiceOrderRequestNoticeOfMeteringWorksAccountCreationNotification | Gas\_r40.xsdGasEnumerations.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

Baseline example XML were converted to r45 format.

# 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
* Xerces 2.2.1
* Xerces 2.9.1
* XMLSpy 2014

### Test Cases

Baseline example XML were converted to r45 format. In addition:

ServiceOrderResponse No Access Special read – ReasonForNoAccess ‘Locked and No Answer’ replaced with ‘Locked Premises’ case.

ServiceOrderResponse No Access Special read – ReasonForNoAccess with ‘Unsafe equipment / location’ slash in data case.

### Test Results

No issues. All files passed.

## 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 | 4 | 100 |
| Rejected | 0 |  |
| Abstained | 0 |  |
| Total Members Present | 4 | 100 |

1. ASWG Vote Results

Glossary

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

1. These are VIC, QLD, SA and NSW/ACT. [↑](#footnote-ref-2)
2. Either ‘Open’ or ‘Closed’ [↑](#footnote-ref-3)