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| aseXML SCHEMA CHANGE REQUEST – CR67 |

Q4 2020

JobEnquiryCode additions

Change request document for additional job enquiry code enumeration entries and make non versioned

Version Control

|  |  |  |
| --- | --- | --- |
| Version | Release date | Changes |
| 0.1 | 29/09/2020 | Initial request. Danny McGowan and Arjun Pathy |
| 0.2 | 01/11/2020 | Finalise document with test results. Wayne Lee |
| 0.3 |  |  |
| 0.4 |  |  |

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# Change Proposal

This change proposal involves 3 segments:

• adding new gas Service Order Job Enquiry Codes (JECs) to the existing JEC enumeration list (see section 1.1.1);

• creating a non-versioned “GasEnumerations.xsd” and moving the JEC enumeration into file (see section 1.1.2); and

• amending the ASWG Change Management Process documentation to include a section that explains the change process for non-versioned enumerations files.

AEMO requests that the ASWG commence the formal change process cycle before the end of September 2020 with a view of approving and publishing an updated schema version before the end of this year (2020).

## Description of the proposed change

The proposed changes are listed in the following table.

|  |  |  |
| --- | --- | --- |
| **Item#** | **Change Description** | **Change Type[[1]](#footnote-2)** |
| 1 | Add the following new JEC values to the existing enumeration list:  • AMLB  • AMLC  • AMLI  • AMLM  • AMLN  • AMLU  • DMS  • DSDA  • DSDB  • DSDI  • DSDN  • DSDU  • MRMB  • MRMC  • MRMI  • MRMN  • MRMU  • PRE  • TCI  • TCIB  • TCII  • TCIN  • TCIU  • TCR  For further information about these new JEC values, please see the Impact and Implementation Report (IIR) consultation papers (IN002/15W and IN026/15) published on AEMO website. Click [here](https://aemo.com.au/consultations/current-and-closed-consultations/in002-15w-in026-15) to view these papers It is also important to note that an abbreviated version of the text to describe the mechanism that is stopping the flow of gas has been chosen. This is because the meter status field is also used CSV consumptionData file and the field length set at 10 characters. Extending the text beyond 10 characters would lead to further IT systems changes and further cost. | New |

1. Proposed Changes

### New JEC elements

The JEC is an existing data element within the service order request (SOR) transaction. The SOR is a business-to-business (B2B) transaction. The JEC data element is used exclusively by gas. Retailers send SORs to the Distributors. JECs describes the nature of the work that need to be performed site.

The above list of new JEC values (see table 1-1) are to be added to the existing JEC enumeration list.

Gas participants and AEMO are targeting that these changes become operational in Q4 2021. A testing program is targeted to commence in Q2 2021, therefore Gas participants and AEMO are seeking that these new JEC be added to the existing JEC enumeration and deployed into new version of the aseXML schema before Q2 2021 (end of March 2021).

### Moving JEC enumerations to a non-versioned aseXML enumerations list

The JEC enumerations list is currently contained in the “Gas\_rXX.xsd” file in the aseXML schema. Since “Gas\_rXX.xsd” is tied to the aseXML schema version, any additions to the JEC enumerations list requires a full schema change. This can lead to long delays in the ability of gas retail market transactions to adapt to new market conditions as identified by participant requests through the GRCF.

The GRCF has therefore agreed with AEMO’s assessment that this list should be moved to a new “GasEnumerations.xsd” file, which would be a non-versioned enumerations list (mirroring the “ElectricityEnumerations.xsd” or the “Enumerations.xsd” files). These files do not have release identifiers in their names and so can be replaced as the ‘included’ file without change to any other schema files, particularly the aseXML.xsd file.

The benefits of a non-versioned file is that new values can be added to the enumerations without a full schema uplift and therefore in a shorter time frame and at lower cost than the standard aseXML schema change process.

The guiding principles for use of the existing “ElectricityEnumerations.xsd” file are:

1. Procedure changes to Electricity B2B or B2M requiring changes (in particular additions) to electricity specific enumerated lists
2. Additions are made via the standard aseXML Change Process cycle
3. Deletions and modifications should be discouraged, but, if necessary, must be made through the standard aseXML Change Process cycle

If a “GasEnumerations.xsd” file were to be made, it would use the above guiding principles (with “Electricity” replaced by “Gas”).

### Change process for GasEnumerations.xsd and ElectricityEnumerations.xsd

The change management process for the “ElectricityEnumerations.xsd” file is not described in the ASWG Change Management Process[[2]](#footnote-3) now. It is envisaged that change process for the “ElectricityEnumerations.xsd” file will be similar to the standard change process but with less effort. An ASWG change request (CR) will need to be raised for this new change process for non-versioned XSD Files. The current standard ASWG end to end timeline is around 40 business days. AEMO is recommending that the Non-Versioned XSD Files end-to-end change process be shorter turnaround time than the standard process given less effort is required while adhering to the various stages of that (standard change) process.

## Reason for Change

Recently, the Western Australian gas network operator successfully completed a trial of a new gas de-energisation method, which involves the application of a Trailer Air Coupling (TAC) isolation device after the pressure regulator has been removed have now be completed. This new TAC method is intended to be used after a Remove Regulator Service Order Request (for which the JEC is MRM) transaction but before a Disconnect in Street transaction (for which the JEC is DSD), subject to the meter’s remaining accessible. In order to fully implement this new gas de-energisation process 2 new JECs are required. One to request the TAC isolation device to be install (de-energisation) and the other is a request to remove the TAC isolation device (re-energisation).

Gas participants have also request that new JECs be added as a better way to convey the reasons why certain gas de-energisation JECs are been sent. This information is being conveyed special comments field as a free-format text. The proposal involves using the fourth character to signify the reason behind the gas de-energisation is being sent.

Gas participants have also identified the need for further new JECs to resolve the use the miscellaneous JEC value “OTH” (Other).

For further information about this proposal please see the Impact and Implementation Report (IIR) consultation paper (IN002/15W and IN026/15) published on AEMO website. Click [here](https://aemo.com.au/consultations/current-and-closed-consultations/in002-15w-in026-15) to view these papers.

## Supplied Documents

### Business process document

Click here to view the Participant Build Pack documents. These documents are listed under the heading “Technical Documents”. The “Transaction Definition Table” is a spreadsheet. This spreadsheet includes a tab titled “Job Enquiry Codes” which list the allowable JEC for each jurisdiction. Details about the SOR transaction is described in Participants Build Pack 3 - B2B Interface Definitions (see section 4.2).

### Other

Click [here](https://aemo.com.au/consultations/current-and-closed-consultations/in002-15w-in026-15) to view draft versions of the Technical Documents showing tracked changes between the current version and the proposed changes.

## Baseline Schema

The schema used as a basis for this proposal is v39.  
The schema changes described in this document are in addition to the CR 66 and 68.

# Approval Proposal

## Proposed Changes

### Draft schemas



### Change log

The following changes have been implemented in this draft:

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 | 1 | Replace version of schema from r39 to r40  Rename file to r40 version. | aseXML\_r40.xsd |
| 2 | 1 | Registration of r40 release  Rename file to r40 version. | Events\_r40.xsd |
| 3 | 1 | Add enumerations to JobEnquiryCode simple type.   * AMLB * AMLC * AMLI * AMLM * AMLN * AMLU * DMS * DSDA * DSDB * DSDI * DSDN * DSDU * MRMB * MRMC * MRMI * MRMN * MRMU * PRE * TCI * TCIB * TCII * TCIN * TCIU * TCR   Update version for complex types:   * GasServiceOrderNotificationData   Rename file to r40 version. | Gas\_r40.xsd |

1. Change Log

### Schema change description

#### aseXml\_r40.xsd

New file to replace aseXML\_r38.xsd and include the r39 file versions listed below.

<xsd:schema xmlns="urn:aseXML:r40" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" targetNamespace="urn:aseXML:r40" version="r40" xsi:schemaLocation="urn:aseXML:r40 aseXML\_r40.xsd">

<xsd:include schemaLocation="Gas\_r40.xsd">

#### Gas\_r40.xsd

Move JobEnquiryCode simple type to the new non versioned enumerations XSD file GasEnumerations.xsd.

Modified version for GasServiceOrderType complex type.

<xsd:attribute name="version" type="r40" use="optional" default="r40"/>

#### GasEnumerations.xsd

Move JobEnquiryCode simple type to this new non versioned enumerations XSD file.

Addition of new enumerated values to JobEnquiryCode simple type.

#### <xsd:simpleType name="JobEnquiryCode">

#### <xsd:annotation>

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

#### </xsd:annotation>

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

#### <xsd:enumeration value="AML"/>

#### <xsd:enumeration value="CSL"/>

#### <xsd:enumeration value="CLT"/>

#### <xsd:enumeration value="DFC"/>

#### <xsd:enumeration value="DSD"/>

#### <xsd:enumeration value="EBD"/>

#### <xsd:enumeration value="EBS"/>

#### <xsd:enumeration value="ECO"/>

#### <xsd:enumeration value="EFB"/>

#### <xsd:enumeration value="EMG"/>

#### <xsd:enumeration value="EMT"/>

#### <xsd:enumeration value="EOT"/>

#### <xsd:enumeration value="ESE"/>

#### <xsd:enumeration value="EST"/>

#### <xsd:enumeration value="EXP"/>

#### <xsd:enumeration value="FAP"/>

#### <xsd:enumeration value="FAT"/>

#### <xsd:enumeration value="FHS"/>

#### <xsd:enumeration value="FMN"/>

#### <xsd:enumeration value="FMT"/>

#### <xsd:enumeration value="FSV"/>

#### <xsd:enumeration value="MAP"/>

#### <xsd:enumeration value="MBO"/>

#### <xsd:enumeration value="MCH"/>

#### <xsd:enumeration value="MDM"/>

#### <xsd:enumeration value="MDO"/>

#### <xsd:enumeration value="MFX"/>

#### <xsd:enumeration value="MFXA"/>

#### <xsd:enumeration value="MHA"/>

#### <xsd:enumeration value="MRC"/>

#### <xsd:enumeration value="MRF"/>

#### <xsd:enumeration value="MRG"/>

#### <xsd:enumeration value="MRM"/>

#### <xsd:enumeration value="MRR"/>

#### <xsd:enumeration value="MRT"/>

#### <xsd:enumeration value="MST"/>

#### <xsd:enumeration value="MTE"/>

#### <xsd:enumeration value="MTJ"/>

#### <xsd:enumeration value="MTN"/>

#### <xsd:enumeration value="OTH"/>

#### <xsd:enumeration value="RML"/>

#### <xsd:enumeration value="RSD"/>

#### <xsd:enumeration value="RSR"/>

#### <xsd:enumeration value="SBS"/>

#### <xsd:enumeration value="SCR"/>

#### <xsd:enumeration value="SDR"/>

#### <xsd:enumeration value="SNG"/>

#### <xsd:enumeration value="SPN"/>

#### <xsd:enumeration value="UEF"/>

#### <xsd:enumeration value="UMS"/>

#### <xsd:enumeration value="USR"/>

#### <xsd:enumeration value="AMLB"/>

#### <xsd:enumeration value="AMLC"/>

#### <xsd:enumeration value="AMLI"/>

#### <xsd:enumeration value="AMLM"/>

#### <xsd:enumeration value="AMLN"/>

#### <xsd:enumeration value="AMLU"/>

#### <xsd:enumeration value="DMS"/>

#### <xsd:enumeration value="DSDA"/>

#### <xsd:enumeration value="DSDB"/>

#### <xsd:enumeration value="DSDI"/>

#### <xsd:enumeration value="DSDN"/>

#### <xsd:enumeration value="DSDU"/>

#### <xsd:enumeration value="MRMB"/>

#### <xsd:enumeration value="MRMC"/>

#### <xsd:enumeration value="MRMI"/>

#### <xsd:enumeration value="MRMN"/>

#### <xsd:enumeration value="MRMU"/>

#### <xsd:enumeration value="PRE"/>

#### <xsd:enumeration value="TCI"/>

#### <xsd:enumeration value="TCIB"/>

#### <xsd:enumeration value="TCII"/>

#### <xsd:enumeration value="TCIN"/>

#### <xsd:enumeration value="TCIU"/>

#### <xsd:enumeration value="TCR"/>

#### </xsd:restriction>

#### </xsd:simpleType>

#### Events\_r40.xsd

Define new simple type “r40”

<xsd:simpleType name="r40">

<xsd:annotation>

<xsd:documentation>Purpose - Release r40 identifier.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="ReleaseIdentifier">

<xsd:enumeration value="r40"/>

</xsd:restriction>

### 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\_r40.xsd |
| R40 |  |  |  | Events\_r40.xsd |
| JobEnquiryCode |  | GasServiceOrderType | ServiceOrderRequest  ServiceOrderResponse | Gas\_r40.xsd |

1. Impact Summary

### Developer Test

#### Test Platforms

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

* XMLSpy
* MSXML6
* Xerces 2.9.1
* Xerces 2.2.1

#### Test Cases

The testing conducted covered the pre-existing set of aseXML sample files converted to r40 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:

* XMLSpy
* MSXML6
* Xerces 2.9.1
* Xerces 2.2.1
* Schema comparison (r39\_p1 - r40)

### Test Cases

The testing conducted covered the pre-existing set of aseXML sample files converted to r40 format, and two additional files for validating the r40 changes.

* VICGAS\_ServiceOrderRequest(MRMC)\_01\_r40.xml -  A new four-character JEC (MRMC) for Vic Gas

### 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\_r40.xsd |  | Conforms |
| Events\_r40.xsd |  | Conforms |
| Gas\_r40.xsd |  | Conforms |
| GasEnumerations.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[[3]](#footnote-4)** | **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: 27 November 2020

|  |  |  |
| --- | --- | --- |
| **Option** | **# Votes** | **% Vote** |
| Approved | 4 | 100 |
| Rejected | 0 |  |
| Abstained | 0 |  |
| Total Members Present | 4 |  |

1. ASWG Vote Results

Glossary

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

1. Change Type can be one of

   New

   Enhancement, or

   Bug Fix [↑](#footnote-ref-2)
2. The ASWG Change Management Process document contains information about the Change Management Process, and instructions on the use and completion of the related Change Request used in the process. Click [here](https://aemo.com.au/-/media/files/gas/it_systems/asexml/change_process/aswg-change-mgt-process-1-3-final-pdf.pdf) to view this document. [↑](#footnote-ref-3)
3. Either ‘Open’ or ‘Closed’ [↑](#footnote-ref-4)