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| aseXML SCHEMA CHANGE REQUEST – CR68 |

Q4 2020

MeterStatus additions - WA

Change request document for additional meter status enumeration entries

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 adding a 2 new meter status values to the existing MeterStatus enumeration list (see section 1.1.1).

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 meter status values to the existing enumeration list:  • Trailer AC  • No Reg  For further information about these new meter status values, please see the Impact and Implementation Report (IIR) consultation papers (IN009/19W and IN010/20W) published on AEMO website. Click [here](https://aemo.com.au/consultations/current-and-closed-consultations/in00919w-and-in01020w) 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 MeterStatus elements

The MeterStatus is an existing data element within the NMIDiscoveryResponse and the NMIStandingDataResponse transaction. These are business-to-business (B2B) transactions. The MeterStatus data element is used exclusively by gas. Distributor send the NMIDiscoveryResponse and NMIStandingDataResponse transactions to the Retailers. MeterStatus describes whether the meter is capable of flowing gas and in the case that the meter cannot flow gas, it describes the mechanism that is stopping the flow of gas.

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

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 MeterStatus values be added to the existing MeterStatus enumeration and deployed into new version of the aseXML schema before Q2 2021 (end of March 2021).

## Reason for Change

Currently the Western Australian gas network operator does not provide the status of the gas meters capability to flow gas (eg MeterStatus) in the NMIDiscoveryResponse and NMIStandingDataResponse transactions. Also the WA gas network operator has two additional metering disconnections mechanism that is stopping the flow of gas compared to other jurisdictions. These are:

* Trailer Air Coupling (TAC) isolation device; and
* Removing the regulator from the meter.

In order to provide the status of the gas meters capability to flow gas (eg MeterStatus) in the NMIDiscoveryResponse and NMIStandingDataResponse transactions these additional 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).

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](https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/gas_consultations/2020/in009-19w-and-in010-20w/iir-in00919w-and-in01020w.pdf?la=en) to view the Specification Pack documents. These documents are listed under the heading “Technical Documents”. The “FRC B2B System Interface Definitions” list the allowable MeterStatus for the SA and WA Gas Retail Markets. Details about the allowable MeterStatus are described in Appendix A Data Dictionary - aseXML Data Elements

### Other

Click here 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 67.

# 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 GasMeterStatus simple type.   * Trailer AC * No Reg   Update version for complex types:   * GasServiceOrderNotificationData * GasMultiMeterStandingData * GasStandingData   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">

Addition of reference to new GasEnumerations.xsd file.

<xsd:include schemaLocation="GasEnumerations.xsd">

<xsd:annotation>

<xsd:documentation>

Purpose - Include enumerated simple types for Gas specific elements that may change more often as non versioned changes.

</xsd:documentation>

</xsd:annotation>

</xsd:include>

#### Gas\_r40.xsd

Addition of new enumerated values of ‘Trailer Ac’ and ‘No Reg’ to GasMeterStatus simple type

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

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

#### <xsd:enumeration value="No meter"/>

#### <xsd:enumeration value="Turned on"/>

#### <xsd:enumeration value="Turned off"/>

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

#### <xsd:enumeration value="Trailer AC"/>

#### <xsd:enumeration value="No Reg"/>

#### </xsd:restriction>

#### </xsd:simpleType>Common\_r39.xsd

Modified version for GasStandingData complex type.

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

Modified version for GasMultiMeterStandingData complex type.

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

Modified version for GasServiceOrderNotificationData complex type.

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

#### 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 |
| GasMeterStatus |  | GasStandingData  GasMultiMeterStandingData  GasServiceOrderNotificationData | NMIStandingDataResponse  NMIStandingDataResponse  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.

* SAWAGAS\_NMIDiscoveryResponse\_GasMeterStatus\_WAGAS\_r40.xml - New GasMeterStatus enumeration (Trailer AC) for GasMeterStatus for WA 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 |

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 |  |

1. ASWG Vote Results

Glossary

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

1. Change Type can be one of

   New

   Enhancement, or

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