

aseXML SCHEMA CHANGE REQUEST

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DOCUMENT REF: CR 46
VERSION: 1.2
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DRAFT/FINAL DRAFT

Version Release History

Version	Date	By	Changes
1.0	12/10/2011	Pius Kurian	Include "CustomerClassificationCode" and "CustomerThresholdCode" to GasMasterStandingData
1.1	13/10/2011	Danny McGowan	Edits to section 1 and 1.2
1.2	18/10/2011	Pius Kurian	Modified the annotation for Common_r29.xsd and included the examples

Glossary

Abbreviation	Description

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1 Change Proposal

Change Request 46 is a proposal put forward by gas industry participants that operate in Victoria, Queensland and South Australian that proposes a modification to the existing NMIDiscoveryResponse transaction by adding two new fields to the existing NMIDiscoveryResponse transaction. These two new fields will be labelled as “CustomerClassificationCode” and “ConsumptionThresholdCode” with the field attributes/format being “string” and the length defined as 20 for both fields.

Given that the proposed change outlined in this request is of a regulatory nature, the Australian Energy Market Operator (AEMO) request that the updates to the aseXML schema be implemented in the r29 release which the approved release date is scheduled for 18 November 2011.

For further information regarding this change request please contact Danny McGowan (AEMO) (03) 96098447 or Pius Kurian (AEMO) (03) 9609 8561.

1.1 Description of the proposed change

The proposed changes are listed in the following table.

Item#	Change Description	Change Type ¹
1	Modified complex types: GasMasterStandingData GasStandingData	Enhancement
	New simple types: CustomerClassificationCode CustomerThresholdCode	New

Table 1-1, Proposed Changes

1.2 Reason for Change

The National Energy Customer Framework (NECF) is a legislative package that has been developed by the Retail Policy Working Group, a sub-working group of the Ministerial Council on Energy (MCE). At the MCE meeting on 10 December 2010, participating jurisdictions committed to work toward a common target date of 1 July 2012 for commencement of the NECF.

The NECF has obligated Retailers and Distributors to classify customers into categories for the purposes of their contractual arrangements. Gas Participants have workshopped and agreed the approach on customer classification in terms of the types and delivery timeframes of transactions that need to be sent between Retailers and Distributors. The proposed solution is a gas B2B change and involves a schema change for Queensland, South Australia and Victoria gas Participants. Recording the customer classification is a prescribed regulatory process that sits within the NECF regulatory framework.

It should be noted that the gas industry participants that operate in Victoria and Queensland have already committed to a common date to implement a schema change which is to take place on 30 July 2012. Discussion with gas industry participants in South Australian about adopting the same date is continuing.

¹ Change Type can be one of

- New
- Enhancement, or
- Bug Fix

1.3 Supplied Documents

1.3.1 Other

aseXML_r29_Draft_zip

1.4 Baseline Schema

The schema used as a basis for this proposal is **aseXML_r28.xsd**.

2 Approval Proposal

2.1 Proposed Change #1²

2.1.1 Draft schema

Please refer to the schema files included with this proposal. The base schema is aseXML_r28 and one file has been modified as detailed in the next section.

2.1.2 Change log

The following changes have been implemented in this draft:

Chg #	Item #	Description of change	Filename
1	1	R29 namespace declaration and included files (r29 suffixes)	aseXML_r29.xsd
	2	Added CustomerClassificationCode and CustomerThresholdCode to GasMasterStandingData	Gas_r29.xsd
	3	Changed version number of GasStandingData to "r29"	
	4	New simple type: r29	Events_r29.xsd
	5	Added two simple types CustomerClassificationCode and CustomerThresholdCode	Common_r29.xsd

Table 2-1 Change Log

2.1.3 Schema change description

2.1.3.1 Change the GasMasterStandingData data type

This is a complex data type and two additional elements CustomerClassificationCode and CustomerThresholdCode have been added to this type.

² This section may be repeated if more than one option is considered

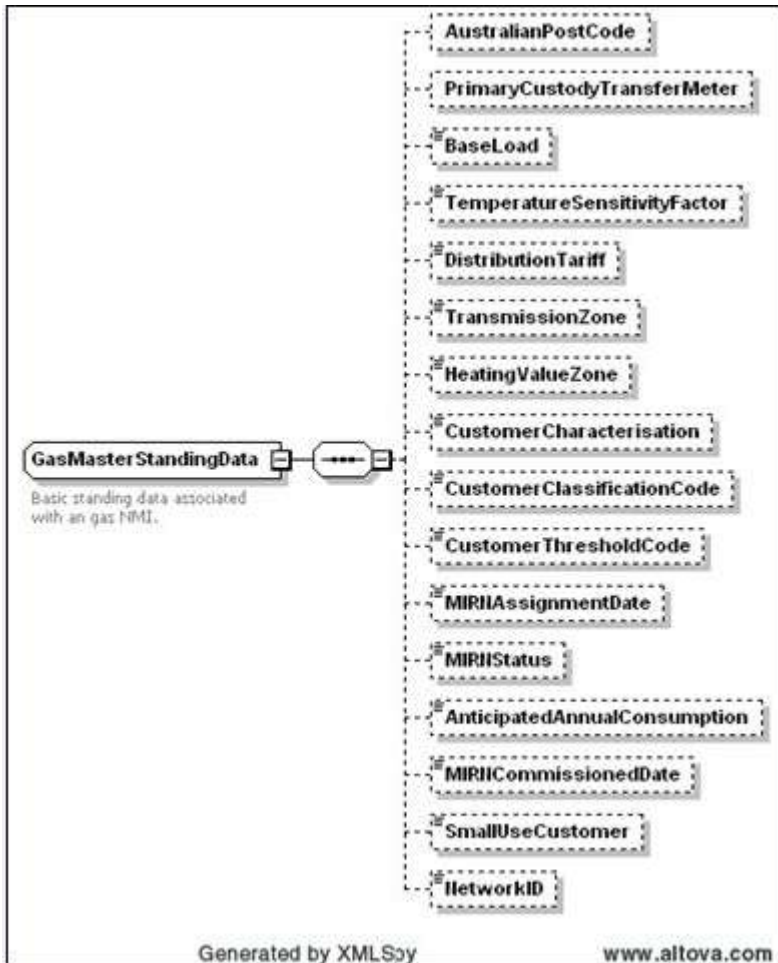


Figure 2-1 GasMasterStandingData

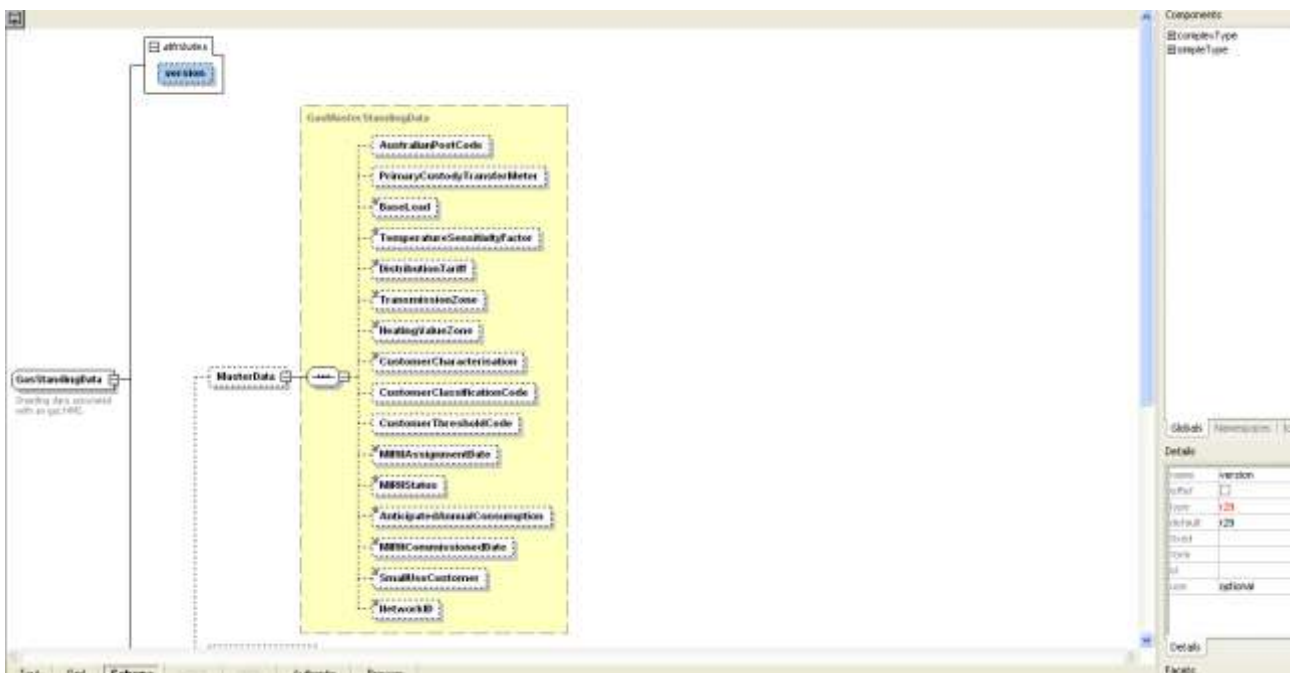


Figure 2-2 GasStandingData

The version attribute of GasStandingData has been revised to r29.

2.1.3.2 Gas_r29.xsd

Text added is given in bold:

... unmodified text removed for brevity ...

```
<xsd:complexType name="GasMasterStandingData">
  <xsd:annotation>
    <xsd:documentation>Basic standing data associated with an gas NMI.</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="AustralianPostCode" type="AustralianPostCode" nillable="true" minOccurs="0"/>
    <xsd:element name="PrimaryCustodyTransferMeter" type="NMIWithChecksum" minOccurs="0"/>
    <xsd:element name="BaseLoad" type="BaseLoad" nillable="true" minOccurs="0"/>
    <xsd:element name="TemperatureSensitivityFactor" type="TemperatureSensitivityFactor" nillable="true"
minOccurs="0"/>
    <xsd:element name="DistributionTariff" type="DistributionTariff" minOccurs="0"/>
    <xsd:element name="TransmissionZone" type="TransmissionZone" minOccurs="0"/>
    <xsd:element name="HeatingValueZone" type="HeatingValueZone" minOccurs="0"/>
    <xsd:element name="CustomerCharacterisation" type="CustomerCharacterisation" minOccurs="0"/>
    <xsd:element name="CustomerClassificationCode" type="CustomerClassificationCode"
nillable="true" minOccurs="0"/>
    <xsd:element name="CustomerThresholdCode" type="CustomerThresholdCode" nillable="true"
minOccurs="0"/>
    <xsd:element name="MIRNAssignmentDate" type="xsd:date" nillable="true" minOccurs="0"/>
    <xsd:element name="MIRNStatus" type="MIRNStatus" minOccurs="0"/>
    <xsd:element name="AnticipatedAnnualConsumption" type="AnticipatedAnnualConsumption"
minOccurs="0"/>
    <xsd:element name="MIRNCommissionedDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="SmallUseCustomer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="NetworkID" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:length value="2"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <!-- Fields to be determined -->
  </xsd:sequence>
</xsd:complexType>
```

... unmodified text removed for brevity ...

```
<xsd:complexType name="GasStandingData">
  <xsd:annotation>
    <xsd:documentation>Standing data associated with an gas NMI.</xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="NMISStandingData">
      <xsd:sequence>
        <xsd:element name="MasterData" type="GasMasterStandingData" minOccurs="0"/>
        <xsd:element name="RoleAssignments" type="RoleAssignments" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element name="MeterData" type="GasMeterStandingData" minOccurs="0"/>
<xsd:element name="SiteData" type="ServicePoint" minOccurs="0"/>
<xsd:element name="AdditionalDataToFollow" type="xsd:boolean" minOccurs="0"/>
<!-- Fields to be determined -->

</xsd:sequence>
<xsd:attribute name="version" type="r14" use="required" />
<xsd:attribute name="version" type="r29" use="optional" default="r29"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
... unmodified text removed for brevity ...

```

2.1.3.3 Events_r29.xsd

Text added is given in bold:

... unmodified text removed for brevity ...

```

<xsd:simpleType name="r29">
  <xsd:annotation>
    <xsd:documentation>Purpose - Release r29 identifier. This release adds
CustomerClassificationCode and CustomerThresholdCode to GasMasterStandingData</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="ReleasIdentifier">
    <xsd:enumeration value="r29"/>
  </xsd:restriction>
</xsd:simpleType>

```

2.1.3.4 aseXML_r29.xsd

Text added is given in bold:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="urn:aseXML:r29" xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:aseXML:r29">
  <xsd:annotation>
    <xsd:documentation>

```

Purpose — Top level aseXML schema

... unmodified text removed for brevity ...

```

</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="Common_r25.xsd">
<xsd:include schemaLocation="Common_r29.xsd">
  <xsd:annotation>
    <xsd:documentation>

```

Purpose — Include data types for status reporting

... unmodified text removed for brevity ...

```

</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="Events_r28.xsd">
<xsd:include schemaLocation="Events_r29.xsd">
  <xsd:annotation>
    <xsd:documentation>

```

Purpose — Include data types for status reporting

```

</xsd:documentation>

```



```

    </xsd:annotation>
  </xsd:include>

```

... unmodified text removed for brevity ...

```

</xsd:annotation>
</xsd:include>
<xsd:include schemaLocation="Gas_r27.xsd">
<xsd:include schemaLocation=" Gas_r29.xsd">

```

```

    <xsd:annotation>
      <xsd:documentation>

```

Purpose — Include Electricity market data types for HSM transactions

... unmodified text removed for brevity ...

2.1.3.5 Common_r29.xsd

Text added is given in bold:

... unmodified text removed for brevity ...

```

</xsd:simpleType>
    <xsd:simpleType name="CustomerClassificationCode">
      <xsd:annotation>
        <xsd:documentation>

```

Classification of customer type, value assigned by FRMP. Examples might include "Business" or "Residential". This is not related to the CustomerType defined on the Service Order..

```

        </xsd:documentation>
      </xsd:annotation>

```

```

    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="20"/>
      <xsd:minLength value="1"/>
      <xsd:whiteSpace value="collapse"/>
    </xsd:restriction>
  </xsd:simpleType>

```

```

<xsd:simpleType name="CustomerThresholdCode">
  <xsd:annotation>
    <xsd:documentation>

```

Classification of customer consumption threshold, value assigned by DNSP. Examples might include Low, Medium, High.

```

    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="20"/>
    <xsd:minLength value="1"/>
    <xsd:whiteSpace value="collapse"/>
  </xsd:restriction>
</xsd:simpleType>

```

```

</xsd:simpleType>

```

... unmodified text removed for brevity ...

2.1.4 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
None	GasStandingDataUpdate	GasStandingData	AccountCreationNotification AmendMeterRouteDetails CATSDataRequest CATSChangeRequest CATSNotification GasMeterNotification NMIDiscoveryResponse	Gas_r29.xsd

Table 2-2, Impact Summary

2.1.5 Developer Test

2.1.5.1 Test Platforms

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

- XMLSpy 2010
- MSXML4 SP1, MSXML 6
- Xerces 2.2.1 and 2.9.1

2.1.5.2 Test Cases

AccCreationNotification_Gas_r29.xml

AmendMeterRouteDetails(SiteAccess)_Gas_r29.xml

CATSChangeRequest_Gas_r29.xml

CATSDataRequest_Gas_r29.xml

CatsNotification_Gas_r29.xml

CATSObjectionNotification_Gas_r29.xml

MeterNotificationMeterFix_Gas_r29.xml

NMIStandingDataResponse_Gas_r29.xml

NMIStandingDataResponse_Gas_r29_Invalid_lessThanOneChar.xml

NMIStandingDataResponse_Gas_r29_Invalid_MoreThan20Char.xml

3 Proposal Assessment

3.1 Test

The ASWG ensures that all recommended parsers on relevant platforms can successfully validate the proposed schema.

3.1.1 Test Platforms

Supplied samples have been tested using the following parsers:

- MSXML 4.0 SP1 (Schema was also validated using proposed MSXML 6.0)
- Xerces 2.2.1, (Schema was also validated using proposed Xerces 2.9.1)
- XMLSpy 2010 (XML Spy 2010 was used as XML Spy 2004 was unavailable)

3.1.2 Test Cases

Samples have been tested as per section 2.1.5.2.

3.1.3 Test Results

All OK.

3.2 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

Table 3-1, Change Proposal Conformance Details

4 Issue Register

This section describes any issues that have arisen and any modifications that are made to the original proposal during the Change Process

4.1 Status of Issues

Issue#	Item#	Description and Discussion	Status ³	Resolution

Table 4-1, Issues list

5 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.

5.1 ASWG Endorsement

The results of the ASWG vote are as follows:

Date of Vote:??/??/????

Option	# Votes	% Vote
Option 1 (section 2.1)		
Option 2 (section 2.2)		
Option # (section 2.#)		
Abstained		
Total Members Present		

Table 5-1, ASWG Vote Results

³ Either 'Open' or 'Closed'