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# Schema Change Request

Document ID	<b>CR11</b>
Change Type	Enhancement/ New Requirement
Title	Changes required for SA/ WA Retail Gas Market
Date	29 December, 2003
Prepared By	Matt Butler
Priority	

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<i>Notes</i>
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## Document Control

Version	Date	Author	Summary of Change
0.1	09/10/2003	Mathew Butler	Initial draft of Proposal section
0.2	16/10/2003	Mathew Butler	Tidied up to highlight areas of uncertainty as at 16/10/2003
0.3	21/10/2003	Mathew Butler	Updated the CR to reflect the current draft Retail Market Rules (dated 17/10/2003). Section one only.
0.4	22/10/2003	Mathew Butler	Draft release for ASWG review.
0.5	24/10/2003	Mathew Butler	Final updates after latest release of RMR.
0.6	04/11/2003	Mathew Butler	Updated to include change discussed in meeting on 31/10/2003 (action item 3110-2 and 3110-4 of minutes number 51).
0.7	17/11/2003	Mathew Butler	Made changes as a result of ASWG meeting on 14/10/2003 – prior to release of Minutes.
0.8	19/11/2003	Darren Field	Completed sections 3 and 5
0.9	25/11/2003	Mathew Butler	Action Item 2111-03 Removed LastModifiedDateTime Action Item 2111-04 Moved TemperatureSensitivityHeatingRate definition to item 2.
1.0	12/12/2003	Mathew Butler	To reflect the changes agreed with Market Participants in meeting on 4 <sup>th</sup> December 2003 and the subject of REMCo Change Request “LogicaCMG12”. In summary: 1) The Removal the new data element “TemperatureSensitivityHeatingRate” from this proposal 2) The remove the new data element “CancellationReasonCode” from this proposal. 3) The remove all “effectiveFrom” standing data attributes from this proposal.
1.1	22/12/2003	Darren Field	Accepted all changes for final release

## Document Status

Sample Change Request Management (CRM) State Descriptions:

State	Definition	Access Control
<b>Submit Proposal</b>	This state occurs as the result of a new Change Request submission. Change Request is placed in the CCB Review queue. No owner assignment takes place as a result of this action.	All Users
<b>Reject Proposal</b>	A Change Request in this state is determined by in the CCB Review Meeting or by the assigned team member to be an invalid request or more information is needed from the submitter. If confirmed invalid, the Change Request will be <i>Closed</i> by the CCB and the submitter notified.	

<b>State</b>	<b>Definition</b>	<b>Access Control</b>
<b><i>Closed</i></b>	Change Request no longer requires attention. This is a final state a Change Request can be assigned.	
<b><i>Approved Proposal</i></b>	A Change Request is then assigned a baseline and the schedule update, if appropriate.	
<b><i>Proposal Assessment</i></b>	This state occurs as the result of update of an existing Change Request with all implementation details, i.e. change log, release notes, dependency analysis. Change Request is placed in the CCB Review queue.	
<b><i>Proposal Rejected</i></b>	A Change Request in this state has been <b><i>Rejected</i></b> and needs rework. As a result the Change request can be resubmitted for assessment at <b><i>Proposal Assessment</i></b> state for next iteration or <b><i>Closed</i></b> .	
<b><i>Proposal Accepted</i></b>	A Change Request in this state has been <b><i>Approved</i></b> and is ready to be published in a draft release.	
<b><i>Published</i></b>	Change Request no longer requires attention. This is a final state a Change Request can be assigned.	

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Nil

## 1. Change Proposal

A Change Proposal is an ASWG managed “Parcel” of work. The Originator of the Change Proposal defines the “Parcel” of work. The industry Working Groups and Market Operators (or its vendor) can act as Originator. The Originator and the ASWG

**NOTE:** All REMCo Retail Market Rule (RMR) references that may follow are to the version of these rules dated 24 October 2003.

### 1.1. Description of the proposed change

This section describes the proposed changes from business perspective.

Table 1-1, Proposed Changes

Item#	Change Description	Change Type
1.	<p>It is proposed to re-use NMISstandingDataUpdateNotification/ SingleNMISstandingData and create a new implementation (SAWAGasStandingData) of the abstract type NMISstandingData specifically to capture the REMCo standing data as required by the market rules and described below:</p> <p>MIRN – (“NMI”) - xsd:string(10)                      MIRN Status – “xsd:string”                      Current User GBO ID - (“partyIdentifier”) - “xsd:string”                      ROLR GBO ID - (“partyIdentifier”) - “xsd:string”                      Network Operator GBO ID (“partyIdentifier”) - “xsd:string”                      Meter Type – (valid values - “Basic”, “Interval”) – “xsd:string”                      Heating Value Zone – “xsd:string” (for encoding gas zone)                      Transmission Zone – “xsd:integer” (for encoding gas zone)                      Small Use Customer Indicator – (valid values “Yes”, “No”) – “xsd:string”                      Non Temperature Sensitive Base Load - - xsd:decimal, totalDigits=9, fractionDigits=1                      Last Modification Date – “xsd:dateTime”                      Party to initiate last change - (“partyIdentifier”) - “xsd:string”                      Data Change Reason Code – “xsd:string”</p>	New requirement
2.	<p>The modification of the <i>GasMeterNotification/ MeterFix</i> transaction to support the additional elements:</p> <p>Anticipated Annual Consumption – “xsd:integer, totalDigits=13”</p>	Enhancement

### 1.2. Reason for Change

This section provides justifications for the proposed change.

**Item 1:** A new aseXML transaction is required to support the distribution of REMCo standing data. This is due to;

- i) The lack of support within existing transactions to support all the REMCo standing data items defined in RMR20(1).
- ii) The REMCo central system is the Database of Record for Delivery Point information and so this new transaction will be sent from the central system upon change to MIRN standing data RMR53(1).

**Item 2:** The additional three items (anticipated annual consumption, non-temperature-sensitive base load and anticipated annual consumption), are required to be included as stated in RMR66(e) and (f)

The following are definitions of the new data items taken from the RMR.

**“anticipated annual consumption”** means the annual volume of gas anticipated by a *network operator* to be *withdrawn* at a *delivery point*, determined in accordance section 3.5 of Appendix 3.

**“non-temperature-sensitive base load”** means the average daily energy consumption that is unaffected by temperature for a *basic-metered delivery point* as advised by the *network operator* from time to time.

**“temperature sensitivity heating rate”** means the rate at which the energy consumption for a *delivery point* varies with change in the *heating degree day* value as advised by the *network operator* from time to time.

### 1.3. Supplied Documents

The Originator shall provide at least the following documents before the Change Proposal can be approved. The ASWG may request the Originator to provide other relevant documents where deemed necessary.

#### 1.3.1 Business process document

The SA/ WA Retail Market Rules, dated 17<sup>th</sup> October 2003 are attached.

#### 1.3.2 Data model

Changes to the data model are captured in section two of this document.

### 1.4. Impact assessments on Participant's systems

#### 1.4.1 Business Impact

In general, the proposed changes will enable market participants to operate their businesses in the retail contestable SA/ WA gas market.

**Item 1:** If the approach were to change an existing transaction then approach would be to would make any additional items optional to minimise business impact on participants systems that use the target transaction. If the approach is to create a new transaction then there is no impact to participants that do not need to use the new transaction.

**Item 2:** The change here is to a transaction that is used to identify the connection of a new delivery point. Other markets use this transaction. Again, the approach here is to make the additional items optional to minimise business impact on participants systems that use the transaction that is to be modified.

#### 1.4.2 Technical Impact

The technical impact to participants of the SA/ WA markets is that they will need to develop/enhance their systems to support the new schema and business rules.

There should be no technical impact of these changes to participants in other markets outside of SA/ WA. However, participants that decide to upgrade to their schema should follow their internal change procedures to validate that their systems are unaffected by any schema modifications.

### 1.5. Affected Configuration Items (Baseline)

#### 1.5.1 Schema

The ASWG has determined that the aseXML r12 will be baseline for the development of the new schema. The changes are required to be included in the R13 schema, scheduled for release on 19/12/2003.



## 2. Approval Proposal

### 2.1. Description of the proposed approval

The table below defines the action in relation to each change item as listed in the Description of the proposed change section.

*Note: Item# is a reference to items listed in the Description of the proposed change. In case, where this list does not exactly match the proposed changes, the items listed are grouped for each proposed change.*

Table 2-1, Proposed Change Approval

Item#	Proposal Notes	Category	Action
1.	<p>It is proposed to re-use NMISstandingDataUpdateNotification/SingleNMISstandingData and create a new implementation (SAWAGasStandingData) of the abstract type NMISstandingData specifically to capture the REMCo standing data as required by the market rules and described below:</p> <p>MIRN – (“NMI”) - xsd:string(10)                      MIRN Status – “xsd:string”                      Current User GBO ID - (“partyIdentifier”) - “xsd:string”                      ROLR GBO ID - (“partyIdentifier”) - “xsd:string”                      Network Operator GBO ID (“partyIdentifier”) - “xsd:string”                      Meter Type – (valid values - “Basic”, “Interval”) – “xsd:string”                      Heating Value Zone – “xsd:string” (for encoding gas zone)                      Transmission Zone – “xsd:integer” (for encoding gas zone)                      Small Use Customer Indicator – (valid values “Yes”, “No”) – “xsd:string”                      Base Load - - xsd:decimal, totalDigits=9, fractionDigits=1                      Last Modification Date – “xsd:dateTime”                      Party to initiate last change - (“partyIdentifier”) - “xsd:string”                      Data Change Reason Code – “xsd:string”</p>	New Feature	Accepted subject to review of the modifications described in the table below (and capture in the minutes of meeting No. 51).
2.	<p>The modification of the GasMeterNotification/ MeterFix transaction to support the additional elements:</p> <p>Anticipated Annual Consumption – “xsd:integer, totalDigits=13”                      Non Temperature Sensitive Base Load - “xsd:decimal, totalDigits=9, fractionDigits=1”</p>	Enhancement	Accepted subject to review of the modifications described in the table below (and capture in the minutes of meeting No. 51).

### **Modifications made as a result of ASWG review (action items 3110-2 and 3110-3):**

Table 2-2, Description of changes made as a result of ASWG review.

Item#	Change Description	Change Type
1.	<p>The addition of optional elements to GasStandingData to enable the use of NMISStandingDataUpdateNotification/ SingleNMISStandingData to distribute standing data required in SA/ WA from the central system to participant systems:</p> <p><b>Additions to GasStandingData/MasterData:</b></p> <p>MIRNCommissionedDate – “xsd:date”</p> <p><b>Additions to GasStandingDataUpdate:</b></p> <p>Add optional element LastModifiedBy (of type PartyIdentifier)                      Add optional element DataChangeReasonCode (of type xsd:string), and an enumeration to this element to restrict the Code to the set of valid values.</p>	Enhancement
2.	<p>The modification of the <i>GasMeterNotification/ MeterFix</i></p> <p><b>Additions to GasStandingData/MasterData:</b></p> <p>Anticipated Annual Consumption – “xsd:integer, totalDigits=13”</p>	Enhancement

## 2.2. Configuration Items (New Baseline)

The ASWG establishes a new baseline as a result of the Change Proposal approval and publishes the listed “Draft” documents for wider consultation with market participants.

### 2.2.1 Draft schema

New schema aseXML\_r13 Draft CR11 is attached.

### 2.2.2 Schema change description

The schema has been changed as per the proposal in Section one. Additional details are provided below

#### 2.2.2.1 Schema Manifest

- The table below shows the files that are impacted by this Change Request.

File names	Added	Modified	Deleted
aseXML_r*.xsd		X	
Gas_r*.xsd		X	
Number of files impacted		2	

#### 2.2.2.2 File Change Summary

This section identifies and lists any changes made to the schema files and highlights any issues.

The following changes have been implemented:

Chg No	Description	FileName	Item#
1	AseXML namespace change to urn:aseXML:r13 and include modified files	aseXML	1,2
3	As per Table 2-3, item#1	Gas	1
4	As per Table 2-4, item#2	Gas	2

### 2.2.3 Change log

The Originator updates the Document History section of the Change Request.

### 2.2.4 Dependency analysis

ASWG completes the dependency analysis and verifies the changes with the documentation provided.

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## 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
- Xerces 1.4.4
- Xerces 2.2.1
- XMLSpy 4.3

#### 3.1.2 Test Cases

The following sample files have been tested successfully against the proposed schema.

- CATSNotification\_with\_CancellationReasonCode\_r13.xml
- GasMeterNotification\_MeterFix\_SAGAS\_r13.xml
- GasMeterNotification\_MeterFix\_WAGAS\_r13.xml
- NMISstandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r13.xml
- NMISstandingDataUpdateNotification\_SAGAS\_DCN\_HeatingRate\_r13.xml
- NMISstandingDataUpdateNotification\_SAGAS\_ECNET\_CU\_r13.xml
- NMISstandingDataUpdateNotification\_SAGAS\_TFR\_CU\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_DCN\_GasZone\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_DCN\_MeterType\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_DIS\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_ECNET\_CU\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_ECNET\_NO\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_NDP\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_PR\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_REC\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_SU\_CU\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_TFR\_CU\_r13.xml
- NMISstandingDataUpdateNotification\_WAGAS\_TFR\_NO\_r13.xml

In addition, all samples from previous aseXML releases have been upgraded to r13 and tested using the above parsers.

3.2. Dependency analysis

Item#	Transactions Impacted	Derived Types Impacted	Schema Filename	Modified Types
1	N/A	GasStandingData GasStandingDataUpdate	Gas*.xsd	GasMasterStandingData GasStandingDataUpdate
2	N/A	GasStandingData GasStandingDataUpdate	Gas*.xsd	GasMasterStandingData

### 3.3. Conformance Report

The ASWG completes the conformance report validating each proposed change against the published aseXML guidelines.

*Note: Item# is a reference to items listed in the Description of the proposed approval.*

Table 3-1, Change Proposal Conformance Details

Schema Filename	Impacted by Item #	Conformance Details
aseXML_r*.xsd	1, 2	Conforms
Gas_r*.xsd	1, 2	Conforms

## 4. Review Disposition

The ASWG assists developers with schema related queries and confirms appropriateness of development against criteria.

### 4.1. Description of Changes - Approved and Accepted

Table 4-1, Review Notes for proposed approvals

Item#	Review Notes	Status
		One of the following: "Approved", "Rejected" or "Deferred".

Note: Item# is a reference to items listed in the Description of the proposed approval.

### 4.2. Impact assessments on Participant's systems

The ASWG seeks the market participants' input on the expected business and technical impacts.

#### 4.2.1 Business Impact

#### 4.2.2 Technical Impact

### 4.3. Supplied Documents

See Table 2-2 for details. Once the schema is being reviewed, the draft version of the schema is to be published. The audience and means of publication is decided on a case-by-case basis. The general rule is to promote participant's early access to the proposed changes.

*Note: For the schema to be published, it must be ready for "Approval".*

## 5. Resolution

The ASWG provides a resolution for each change item contained in the Approval Proposal. The resolution is forwarded to the Originator for implementation considerations as required by respective Change Management Process.

### 5.1. Changes Approved and Accepted

The ASWG compiles the list of change items proposed for approval together with their resolution status in the table below.

*Note: Item# is a reference to items listed in the Description of Changes - Approved and Accepted.*

Table 5-1, Change Resolution

Item#	Resolution Notes	Status
1.	<p>The addition of optional elements to GasStandingData to enable the use of NMISstandingDataUpdateNotification/ SingleNMISstandingData to distribute standing data required in SA/ WA from the central system to participant systems:</p> <p><b>Additions to GasStandingData/MasterData:</b></p> <p>MIRNCommissionedDate – “xsd:date”</p> <p><b>Additions to GasStandingDataUpdate:</b></p> <p>Add optional element LastModifiedBy (of type PartyIdentifier)                      Add optional element DataChangeReasonCode (of type xsd:string), and an enumeration to this element to restrict the Code to the set of valid values.</p>	Approved
2.	<p>The modification of the <i>GasMeterNotification/ MeterFix</i></p> <p><b>Additions to GasStandingData/MasterData:</b></p> <p>Anticipated Annual Consumption – “xsd:integer, totalDigits=13”</p>	Approved

Note: Item# is a reference to items listed in the Description of Changes - Approved and Accepted.