

Gas Retail Market 2012 changes

Information Session

Monday 12 December 2011

Presenters:

Danny McGowan & Bert Naik

© 2010 AEMO. All rights reserved.



Workshop to demystify the Gas Retail Market changes for 2012 (Qld, SA and Vic) and certification process by confirming roles and obligations:

- 2012 Gas Retail Market Changes (Qld, SA and Vic) (Session 1); and
- Recertification (Session 2)

Gas Retail Market changes for NSW and ACT are minimal and less complex

- Details are on the AEMO website

Prerequisite for this information session

- Understanding of the
 - Gas Interface Protocol (Vic and Qld)
 - Specification Pack (SA)

List attendees:

- Peter Alberts, Danny McGowan, Stefanie Monaco, Bert Naik, Pius Kurian, Wayne Lee and Anne Waller (**AEMO**)
- Rene Ibaviosa, Maja Spuzic, Rebecca Cregan (**Envestra and APT Allgas**)
- Anna Manojlovic, Paul Greenwood, Ferouza Saran (**Multinet**)
- Puneet Verma, Thiru Nagalingam, Holger Paffrath (**SP AusNet**)
- Glenn Roberts, Drew Banfield, Bryce Densley, Diane Warren (**Origin Energy**)
- Patrick Sherman, Matthew Stuchbury, Trent Smith (**AGL**)
- Katie Smith, Raman Vaid, Pieter Wijtzes, Gary Kuiper, Anthony Gugel (**TRUenergy & Energy Australia**)
- Ian Cupidon, Johan Santen, Muffazal Lotia, Courtney Turner (**Lumo Energy**)
- Jenna Polson (**Simply Energy**)

List attendees:

- Martin Jenner (**Australian Power and Gas**)
- Minh Ky, Tony van der Koelen (**Red Energy**)
- Cristina Calvo (**Jemena**)
- Nick Gustafsson, Nick Nikolitsis (**Santos & Aurora Energy**)
- Andrew Mair (**Dodo Power & Gas**)
- Robert Gubbins (**Logica**)

SESSION 1 –

Consultative Process Used

2012 Gas Retail Market Changes

Testing Scope for the Retail Market

Overview of the Gas Retail Market Changes and current status

Versioning change to aseXML for Vic, Qld and SA

Schema Release Notes

Certification

Industry Implementation Plan

Consultative Process Used

- Canvassed Participants via Gas Retail Consultative Forums (GRCF) (Vic, Qld and SA)
 - Your GRCF reps are:
 - Verity Watson – Multinet
 - Peter Ellis - SP AusNet
 - Rick Abbott - Envestra and APT Allgas
 - Randall Brown - Origin Energy
 - Trent Smith - AGL
 - Fiona Savage / Raman Vaid – TRUenergy and Energy Australia
 - Dianne Shields - Simply Energy
 - Maree Cockle - Red Energy
 - Ian Cupidon - Lumo Energy
 - Shelley Reed / Roman Chan – Australian Power & Gas
 - Peter Pihir - Santos
 - Garry Williams - Essential Energy

2012 Gas Retail Market Changes

- This will be the 5th major Gas Retail Market Release in the 9 years since the commencement of FRC.
- Impacts the Market Operator (AEMO) and all Retailers and Distributors who participate who in the Vic, Qld and SA.
 - Summary of previous major Gas Retail Market changes since October 2002
 - November 2004 (R12 to R13 schema changes [Enumerations.XSD file will be updated on an ad hoc basis] and changes to Network billing)
 - July 2005 (R13 to R16 schema changes to add Network Id to gas standing data and Non DTS FRC Services)
 - June 2006 (no schema changes but other changes such as Complete MIRN Listing)
 - May 2009 (no schema changes but other changes such as RoLR and Network Billing)

Testing Scope for the Retail Market



- Majority of changes are B2B.
- Some of the changes involved changes to the aseXML which will result in a versioning change to the aseXML schema therefore a recertification effort involving all transactions by all Participants and AEMO is required.
- The GRCF are considering whether a bi-lateral testing approach be adopted for this release rather than a industry approach. Feedback due Friday 23rd December 2011.

Overview of the Current Gas Retail Market Changes and their status



Issue Effective Date	Market	Transaction number and details	Transaction Type and Method	Outline of changes including impact on transaction	No Testing required	Re- certification required	Bi lateral Testing required	Industry testing required
IN019/11 Transfer Validation <u>Effective date:</u> 17 April 2012	VIC QLD	170 – Initiate Transfer Request	B2M via aseXML	New error code added to GIP (code 3045)	No	No	Yes, see Build 30 pre- prod document.	No

*Details on the specifics of each change can be found on the AEMO website - www.aemo.com.au/consultations/gasconsultations

**The testing requirements are indicative at this stage and are subject to final sign with the GRCF's by 21st Dec

Overview of the Current Gas Retail Market Changes and their status



Issue Effective Date	Market	Transaction number and details	Transaction Type and Method	Outline of changes including impact on transaction	No Testing required	Re- certification required	Bi lateral Testing required	Industry testing required
IN037/10 IN039/10 IN040/10 NECF Changes <u>Effective date:</u> 1 July 2012	VIC QLD	136 – Time Expired Meters Notification	This transaction is being removed as T330 will be used instead	Removal of transaction	Yes	No	No	No
		330 – Notification of Planned Outage	B2B via email	Changes to CSV format	No	No	Yes – DBs and RBs to get together and scope requirement.	No
		332A (now 339) – NECF Direct Billing Arrangements	B2B via email	New transaction	No	No	Yes – DBs and RBs to get together and scope requirement.	No
		900 – Customer and Site Details	B2M uploaded to MIBB	Vic Host retailers (Local Area Retailers) to provide AEMO. No change for Qld and Vic 2 nd Tier.	Yes	No	No	No

*Details on the specifics of each change can be found on the AEMO website - www.aemo.com.au/consultations/gasconsultations

**The testing requirements are indicative at this stage and are subject to final sign with the GRCF's by 21st Dec

Overview of the Current Gas Retail Market Changes and their status



Issue Effective Date	Market	Transaction number and details	Transaction Type and Method	Outline of changes including impact on transaction	No Testing required	Re- certification required	Bi lateral Testing required	Industry testing required
IN037/10 IN039/10 IN040/10 NECF Changes <u>Effective date:</u> 1 July 2012	SA	70 – Amend Customer Details	B2B via aseXML	New transaction for SA	No	Yes - Certification can be conducted between 1 April 2012 to 1 June 2012	Yes – DBs and RBs to get together and scope requirement. Prerequisite for Bi lateral Testing is successful completion of certification.	No
		71 – Amend Customer Details	B2B via CD / email	New transaction for SA	No	No	Yes – DBs and RBs to get together and scope requirement.	No
		136 – Time Expired Meters Notification	This transaction is being removed as T330 will be used instead	Removal of transaction	Yes	No	No	No
		330 – Notification of Planned Outage	B2B via email	Changes to CSV format	No	No	Yes – DBs and RBs to get together and scope requirement.	No
		332A (now 339) – NECF Direct Billing Arrangements	B2B via email	New transaction	No	No	Yes – DBs and RBs to get together and scope	No

*Details on the specifics of each change can be found on the AEMO website - www.aemo.com.au/consultations/gasconsultations

**The testing requirements are indicative at this stage and are subject to final sign with the GRCF's by 21st Dec

Overview of the Current Gas Retail Market Changes and their status



Issue Effective Date	Market	Transaction number and details	Transaction Type and Method	Outline of changes including impact on transaction	No Testing required	Re-certification required	Bi lateral Testing required	Industry testing required
IN027/11 Customer Classification <u>Effective date:</u> 30 July 2012	VIC QLD SA	87, 101, 151, 310, 312, 314 316, 318, 320 ServiceOrderRequest	B2B via aseXML	Requirement on 'LoadDetails/PerAnnum' changing.	No	Yes - Certification can be conducted between 1 April 2012 to 1 June 2012	Yes – DBs and RBs to get together and scope requirement. Prerequisite for Bi lateral Testing is successful completion of certification.	No
		280 NMISstandingDataRequest.	B2B via aseXML	Two new fields being added: 'CustomerClassificationCode' and 'ConsumptionThresholdCode' plus the aseXML version change to r29	No	Yes - Certification can be conducted between 1 April 2012 to 1 June 2012	Yes – DBs and RBs to get together and scope requirement. Prerequisite for Bi lateral Testing is successful completion of certification.	No
		68 or 69 csvamendsitedressdetails/csv data	B2B via aseXML	Changes to CSV format and use	No	No	Yes – DBs and RBs to get together and scope requirement.	No

*Details on the specifics of each change can be found on the AEMO website - www.aemo.com.au/consultations/gasconsultations

**The testing requirements are indicative at this stage and are subject to final sign with the GRCF's by 21st Dec

Overview of the Current Gas Retail Market Changes and their status



Issue Effective Date	Market	Transaction number and details	Transaction Type and Method	Outline of changes including impact on transaction	No Testing required	Re- certification required	Bi lateral Testing required	Industry testing required
IN016/10 - Certificate of Compliance (CoC) number digit increase from 7 to 8 and new schema release r27 <u>Effective date:</u> 30 July 2012	VIC QLD	87, 101, 151, 310, 312, 314 316, 318, 320 ServiceOrderReq uest	B2B via aseXML	Changes involve Certificate of Compliance (CoC) numbers, moving from 7 to 8 digits in length plus the aseXML version change to r29	No	Yes - Certification can be conducted between 1 April 2012 to 1 June 2012	Yes – DBs and RBs to get together and scope requirement. Prerequisite for Bi lateral Testing is successful completion of certification.	No
IN007/11 – PLN number digit increase from 5 to 6. <u>Effective date:</u> 30 July 2012	VIC QLD	87, 101, 151, 310, 312, 314 316, 318, 320 ServiceOrderReq uest	B2B via aseXML	Changes involve Plumber Linence Number moving from 5 to 6 digits in length	No	Yes - Certification can be conducted between 1 April 2012 to 1 June 2012	Yes – DBs and RBs to get together and scope requirement. Prerequisite for Bi lateral Testing is successful completion of certification.	No

*Details on the specifics of each change can be found on the AEMO website - www.aemo.com.au/consultations/gasconsultations

**The testing requirements are indicative at this stage and are subject to final sign with the GRCF's by 21st Dec

Overview of the Current Gas Retail Market Changes and their status



- Further details see please review the AEMO decision notices or the IIR which are both published on the AEMO website – www.aemo.com.au
- Any questions you should:
 - Firstly, contact your GRCF rep to clarify your issue
 - Secondly, log a help desk call with AEMO – helpdesk@aemo.com.au

Versioning change to aseXML for Vic, Qld and SA



- Last time a schema version change occurred
 - Victoria - July 2005 (R13 to R16)
 - South Australia - Never
 - Queensland - Never
- Vic, Qld and SA moving from R13 to R29 (effective 30 July 2012)

- IN016/09, IN037/10, IN039/10 and IN040/10 require VIC and QLD to move from r16 to r29 and in SA a move from r13 to r29
- This schema change is warranted as it supports modification to two existing market transactions.
- AEMO publishes schema release notes on its website (www.aemo.com.au/asexml/schemas.html).
- Schema release notes are prepared for each schema release and provide a summary of all changes that have been included in a release, and are designed to assist aseXML subscribers in determining the impact to their systems of applying the new schema.
- In the case of Vic and Qld, participants need to take into consideration the schema release notes r17 to r29 inclusive and for SA r14 to r29 inclusive

Schema Release Notes (continued)



- ITDF has agreed to form a sub group chaired by Wayne Lee to look at each of the release notes with a view of consolidating into one document.
- Members of this sub group are:
 - Wayne Lee (AEMO)
 - Bert Naik (AEMO)
 - Andrew Screen (AGL)
 - Maja Spuzic (Envestra) and
 - Michael Obrovac (Origin Energy)
- First meeting is 15th December 2011
- Targeting a completion date early in new year

- Requirement under the RMP
- Three documents you need to read and understand are:
 1. **FRC Gas Hub Participant User Guide:** User guide for the participants in the gas market, containing an overview and instructions to utilise the Gas Hub and Responders.
 2. **Gas FRC Business to Business Connectivity Testing and System Certification (Victoria and Queensland):** This is a document within the Retail Market Procedures for Victoria and Queensland which AEMO must publish and maintain. Each Retailer and Distributor in Victoria and Queensland must be certified by AEMO prior to using the FRC HUB. The certification process is outlined in the document.
 3. **Connectivity Testing and Technical Certification (South Australia):** This document describes the process through which organisations wishing to participate in either the SA and/or WA Gas Retail Markets can achieve technical certification from the relevant Market Operator.
- All documents available on AEMO website

- Certification Window for R29

- Prerequisite for certification is UAT successfully completed
- Certification can be conducted between 1 April 2012 to 1 June 2012
- Progress to be reported to the GRCF
- Session 2 of this presentation will cover certification in more detail

- AEMO to develop an Industry Implementation Plan document
 - Implementation Window
 - Contingency Cut-over weekend
 - Schema Change Risk mitigation
 - Release Co-ordination
 - Cutover Timetable and Responsibilities
 - Go Live Decision
 - Post Go Live Monitoring
 - Teleconferencing Details and Industry Contacts
- Draft of this document will be circulated in February 2012

Questions ?



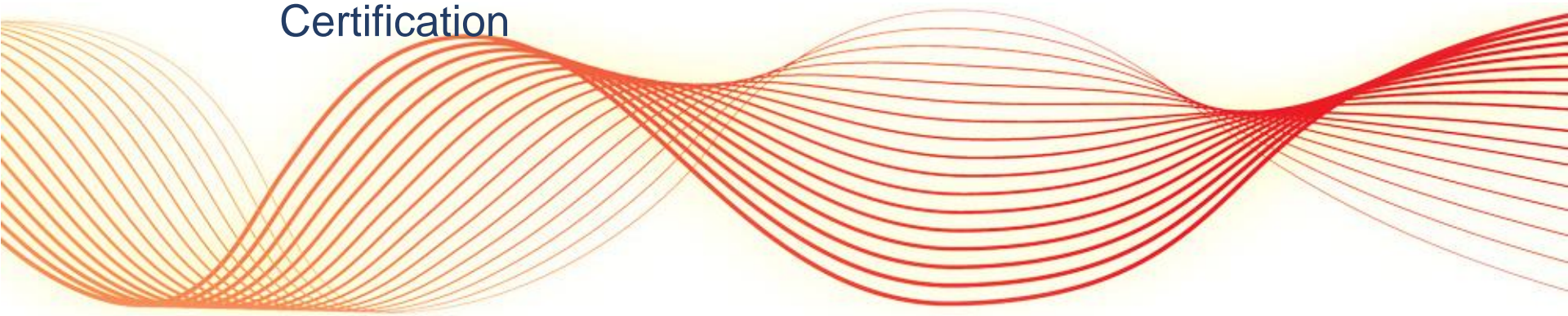
SESSION 2

Hub

ebXML

aseXML

Certification



Hub and Certification

Hub environment

Two distinct services

- Service 1: Message routing (Gas B2B Hub)
- Service 2: Industry Certification

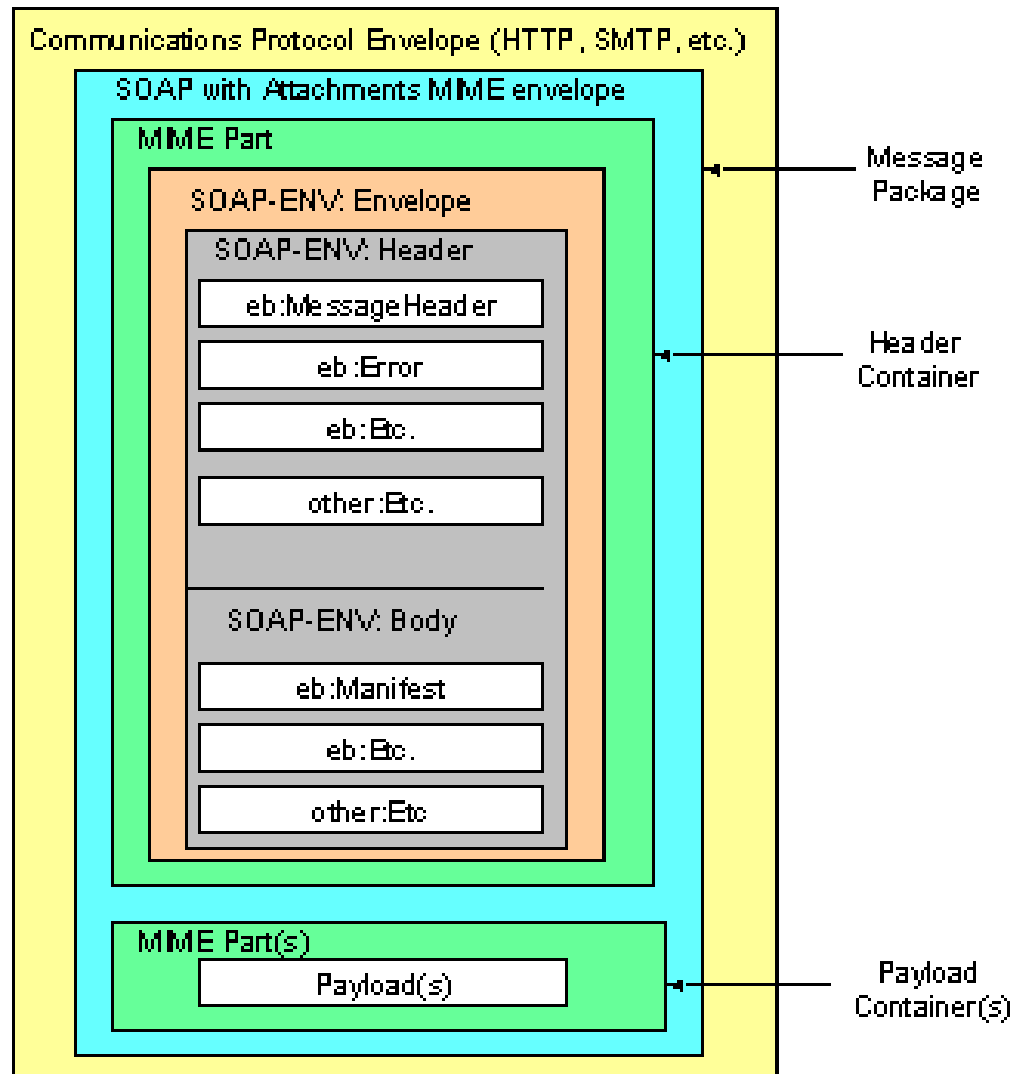
Message Routing

- About 25 Participants
- Four markets: Vic, Qld, SA, WA
- About 200,000 messages a day
- Peaks of over 50 messages/second

Message Routing

- WebMethods Software
- ebXML 1.0 for transport
- HTTPS protocol for transport-level encryption
- Messages must be Signed by Sender
- Hub/Receiver Verifies signature

ebXML



ebXML = Message Envelope

- From Partner ID
- To Partner ID
- Message/Document ID
- Message Date
- Time-To-Live
- Group ID
- Signature
- Payload (optional)
- Etc.

ebXML

- International standard
- Standard independent of various vendors
- Current version 3.0
- Hub environment uses version 1.0
- Structure MIME – various types of payloads supported

ebXML

- Trading Partner Agreement (TPA) = contract
- Version 1.0 does not require TPAs
- Version 2.0+ requires TPAs
- WM 7.0+ has implemented 2.0 functionality in 1.0
- SoftwareAG is working on a fix to rectify

Business Data = aseXML

- Energy business data delivered through aseXML documents
- aseXML managed by aseXML Standards Working Group (ASWG)
- ASWG
 - decides on the changes to aseXML structure
 - releases aseXML schema
 - publishes supported software tools
- Chair: Andrew Screen (AScreen@agl.com.au)

Business Data = aseXML

<Header>

<From>

<To>

<MessageID>

<MessageDate>

<TransactionGroup>

<Market>

</Header>

<Transactions>

<Transaction transactionID="UYTUT687668966789">

<CATSDataRequest version="r7">

<Role>CDB</Role>

<RoleStatus>C</RoleStatus>

<InitiatingRequestID>4707993</InitiatingRequestID>

<NMISstandingData>

</CATSDataRequest>

</Transaction>

</Transactions>

aseXML

- A structure for Australian energy business documents
- A subset is used in Gas Retail
- SA and WA markets use aseXML version r13
- Vic and Qld markets use aseXML version r16
- From July 2012 → SA, Vic and Qld to use r29

aseXML

- Some possible problems with aseXML files:
 - Lack of well-formedness
 - Errors in structure
 - Missing mandatory elements
 - Errors with enumerated values
- Receiving gateway should reject 'bad' files

aseXML - validation

- Most aseXML problems detected by validating files against schema
- Two ways to validate structure
 - Local validation against schema at gateway (Test/Prod)
 - Validation using AEMO Responders (Test)
- Schema validation alone does not pickup all problems
- Certification aims to uncover most (if not all) aseXML problems

- Any system changes at gateway? → undergo Recertification
- Scope varies; discuss with AEMO Market Development division
- Certification covers both ebXML and aseXML
- Two Responders are provided for the purpose (FBS and FBSTEST)
- Read 'Gas Hub Participant User Guide' for instructions

- Currently Responders provide r13 (SA/WA) and r16 (Vic/Qld) support
- From 1/04/2012 r29 support available
- Responders not to be used for volume/performance testing
- No separate Market Testing is necessary

Questions ?

