

PROPOSED PROCEDURE CHANGE (PPC) – SUMMARY SECTION
(For Proponent or AEMO to complete. Template focuses on solution identification)

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| Issue Number | IN023/14 | | |
| Impacted Jurisdiction(s) | VIC, QLD, SA and WA | | |
| Proponent | Tim Sheridan | Company | AEMO |
| Proponent e-mail | tim.sheridan@aemo.com.au | Proponent phone | 03 9609 8417 |
| Affected Gas Market(s) <ul style="list-style-type: none"> ▪ Retail ▪ Wholesale ▪ Bulletin Board ▪ STTM | Retail Market Procedures (RMP) Retail Market Rules (WA) | Date proposal sent to AEMO | 17 Nov 2014 |
| Short Title | Documentation changes for the FRC Hub Upgrade | | |
| Other key contact information | grcf@aemo.com.au | | |

PROPOSED PROCEDURE CHANGE (PPC) – DETAILED REPORT SECTION

1. Description of change(s) and reasons for change(s)

This Proposed Procedure Change (PPC) has been developed by AEMO and details documentation changes to the following technical artifacts:

- FRC Hub Operational Terms and Conditions
- Participant Build Pack 3: FRC B2B System Architecture
- Participant Build Pack 3: FRC B2B System Specifications
- Specification Pack: Usage Guide
- Specification Pack: FRC B2B Hub System Architecture
- Specification Pack: FRC B2M-B2B Hub System Specifications

For Victoria, Queensland and South Australia, these technical artifacts are prescribed documents under the Retail Market Procedures.

For Western Australia, these technical artifacts are prescribed documents under the Retail Market Rules.

These documentation changes are necessary as a result of the Retail Gas Hub (the Hub) upgrade.

Background

The Hub is a technology platform operated by AEMO that facilitates retail gas market transactions between businesses (Business to Business or B2B) and between businesses and the market operator (Business to Market or B2M).

The Hub is used by participants in Victoria, Queensland, South Australia and Western Australia.

From November 2014 to May 2015, AEMO will be upgrading the Hub to implement an enterprise-class messaging system.

The Hub upgrade is required for two main reasons:

1. To increase the capacity of the Hub to meet the expected increase in market transaction volumes following the expansion of the Hub into the NSW/ACT retail gas market.
2. The Hub currently operates on webMethods software (version 6.5) that is at the end of its lifecycle.

Hub Upgrade

The Hub upgrade will involve the implementation of webMethods software (version 9.6) that:

- Supports current interfaces, meaning participants are not required to make any functional changes to their systems.
- Is a scalable platform, which can support future market expansion if required (i.e. NSW/ACT retail gas market).

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| | <ul style="list-style-type: none"> • Will be implemented “off-the-shelf” with minimal customisation to reduce the longer-term costs of a bespoke implementation. • Is a base platform that can provide a national retail platform and integrate with wholesale systems (if required). • Will reduce manual intervention on both the FRC Hub and the Gateway through automation. • Can support multiple interfaces to enable participants to realise value in line with their individual investment cycles. • Provide additional functionality for participants to view message history and resend undelivered messages. <p>The new webMethods software will be implemented on separate infrastructure to minimise the impact on participants. There is no requirement for participants to changes their gateway systems.</p> <p>However, participants will be required to complete Panel 1 certification testing in the AEMO Pre-Production environment. This target date for completing certification is 30 April 2015.</p> <p>The target go-live date for the new Hub is 17 May 2015.</p> |
| <p>2. Reference documentation</p> <ul style="list-style-type: none"> ▪ Procedure Reference ▪ GIP/Specification Pack Reference ▪ Other Reference | <ul style="list-style-type: none"> • FRC Hub Operational Terms and Conditions • Gas Interface Protocol (VIC and QLD) <ul style="list-style-type: none"> ○ Participant Build Pack 3: FRC B2B System Architecture ○ Participant Build Pack 3: FRC B2B System Specifications • Specification Pack (SA and WA) <ul style="list-style-type: none"> ○ Specification Pack: Usage Guide ○ Specification Pack: FRC B2B Hub System Architecture ○ Specification Pack: FRC B2M-B2B Hub System Specifications |
| <p>3. The high level details of the change to the existing Procedures</p> <p>This includes:</p> <ul style="list-style-type: none"> ▪ A comparison of the existing operation of the Procedures to the proposed change to the operation of the Procedures. ▪ A marked up version of the Procedure changes. | <p>Below is a summary of the high-level changes that have been made to each document.</p> <ul style="list-style-type: none"> • FRC Hub Operational Terms and Conditions: <ul style="list-style-type: none"> ○ Removal of “Recitals” section. ○ Removal of specifics on average throughput of the Hub ○ Implementation of recovery point objective (RPO) and recovery time objective (RTO) targets for the Hub. ○ Removal of previous subsequent statements that cover disaster recovery and fail-over. ○ Removal of item stating that AEMO will not open message payload. This is required for aseXML validation on the Hub. |

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| | <ul style="list-style-type: none"> ○ Removal of statements which outline environments such as testing and development. These statements are not required in Hub T&C's. ○ Removal of specifics on certificates that will be provided to Subscribers. ○ Added availability uptime, RPO and RTO tables for Subscribers. ○ Removal of automatic HUB Ping service. ○ See Attachment A for the marked-up changes to the FRC Hub Operational Terms and Conditions. ● Participant Build Pack 3: FRC B2B System Architecture <ul style="list-style-type: none"> ○ Removal of AEMO document approval and acceptance. ○ Removal of references to Hansen's network and associated Hansen documents. ○ See Attachment B for the marked-up changes to Participant Build Pack 3: FRC B2B System Architecture. ● Participant Build Pack 3: FRC B2B System Specifications <ul style="list-style-type: none"> ○ Removal of AEMO document approval and acceptance. ○ Change reference to test environment to pre-production environment. ○ Changes to aseXML schema validation sections to move from FBS to FRC Hub ○ Creating a default maximum transaction size of 2 MB. ○ See Attachment C for the marked-up changes to Participant Build Pack 3: FRC B2B System Specifications. ● Specification Pack: Usage Guide <ul style="list-style-type: none"> ○ Updated to reflect new versions of FRC B2M-B2B Hub System Specifications and System Architecture documents. ○ See Attachment D for the marked-up changes to the Specification Pack Usage Guide. ● Specification Pack: FRC B2B Hub System Architecture <ul style="list-style-type: none"> ○ Removal of references to Hansen's network and associated Hansen documents. ○ See Attachment E for the marked-up changes to Specification Pack: FRC Hub System Architecture. ● Specification Pack: FRC B2M-B2B Hub System Specifications <ul style="list-style-type: none"> ○ Change reference to test environment to pre-production environment. ○ Changes to aseXML schema validation sections to move from FBS to FRC Hub. |
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| | <ul style="list-style-type: none"> ○ Creating a default maximum transaction size of 2 MB. ○ See Attachment F for the marked-up changes to Specification Pack: FRC B2M-B2B Hub System Specifications. <p>The target effective for each of these documentation changes is 17 May 2015.</p> |
| 4. Consequences for making or not making the change(s) | <p>The main consequence for not making the proposed documentation changes is potential inaccuracies in these technical artefacts.</p> <p>However, not proceeding with the Hub upgrade will:</p> <ul style="list-style-type: none"> • Affect the ability for AEMO to process increased market transaction volumes for the NSW/ACT retail gas market. • Increase the risk to system security and the stability of the Hub as it will remain operating on an unsupported version of webMethods software. |
| 5. Explanation regarding the order of magnitude of the change(s) (eg: material, non-material or non-substantial) | <p>The documentation changes are considered to be non-material and there is not expected to be any changes required to participant systems or gateways.</p> |
| 6. Likely benefits for industry as a whole | <p>The benefits for the proposed documentation changes are:</p> <ul style="list-style-type: none"> • The removal of redundant provisions and improved clarity of these technical artefacts. • Updated documentation for participants that more accurately reflects the services provided by the Hub. <p>The benefits of the Hub upgrade include:</p> <ul style="list-style-type: none"> • Improved capacity of the Hub which is be expanded to include transactions from the NSW/ ACT retail gas market. • Greater longevity and performance of existing Hub services. • Optional functionality for participants, including the ability for participants to view message history and resend undelivered messages. • The mitigation of system and operational risks from using unsupported software and hardware assets. |
| 7. The likely implementation effect of the proposal on Industry in general and/or any identified parties (e.g. end-users) | <p>AEMO will be required to implement system changes and undertake development testing, including full Panel 1 and Panel 2 certification for the VIC and QLD gateway.</p> <p>Participants are not required to make are system or configuration changes to their gateways. However, participants will be required to complete Panel 1 certification testing with the Hub.</p> |
| 8. Testing requirements | <p>As noted in section 7, AEMO will be required undertake full Panel 1 and Panel 2 certification testing for the VIC and QLD gateway.</p> |

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| | <p>Industry certification is planned to commence on 31 March 2015 and be completed by 30 April 2015. Each participant will be required to nominate a readiness coordinator who will be AEMO's point of contact during the certification period.</p> |
| <p>9. Supporting Documentation (attach if necessary)</p> | <p>Refer to Attachments.</p> |
| <p>10. If applicable, a proposed effective date for the proposed changed Procedures to take effect and justification for that timeline.</p> | <p>AEMO proposes that the changes will occur in accordance with the following timeline:</p> <ul style="list-style-type: none"> • 20 November 2014 – PPC issued for industry consultation • 11 December 2014 – Consultation closes for PPC • 5 January 2015 – IIR issued for consultation • 3 February 2015 – Consultation closes for IIR • 24 February 2015 – AEMO publishes notice of decision • 23 April 2015 – Target for AEMO publishing notice of effective date • 17 May 2015 – Target go-live date for the Hub upgrade and the proposed effective date for the documentation changes. <p>AEMO requests that all feedback is emailed to grcf@aemo.com.au.</p> |

**ATTACHMENT A – PROPOSED CHANGES TO THE FRC HUB OPERATIONAL TERM
AND CONDITIONS**

Blue represents additions **Red** and **strikeout** represents deletions – Marked up changes

Please refer to the marked-up copy of the FRC Hub Operational Terms and Conditions (version 7.0) which has been attached separately to this document.

**ATTACHMENT B – PROPOSED CHANGES TO PARTICIPANT BUILD PACK 3: FRC B2B
SYSTEM ARCHITECTURE**

Blue represents additions **Red** and **strikeout** represents deletions – Marked up changes

Please refer to the marked-up copy of the Participant Build Pack 3: FRC B2B System Architecture (version 3.2) which has been attached separately to this document.

**ATTACHMENT C – PROPOSED CHANGES TO PARTICIPANT BUILD PACK 3: FRC B2B
SYSTEM SPECIFICATIONS**

Blue represents additions **Red** and **strikeout** represents deletions – Marked up changes

Please refer to the marked-up copy of the Participant Build Pack 3: FRC B2B System Specifications (version 3.1) which has been attached separately to this document.

ATTACHMENT D – PROPOSED CHANGES TO THE SPECIFICATION PACK USAGE GUIDELINES

Blue represents additions **Red** and **strikeout** represents deletions – Marked up changes

Please refer to the marked-up copy of the Specification Pack Usage Guidelines (version 5.8) which has been attached separately to this document.

ATTACHMENT E – SPECIFICATION PACK FRC B2M-B2B SYSTEM ARCHITECTURE

Blue represents additions **Red** and **strikeout** represents deletions – Marked up changes

Please refer to the marked-up copy of the Specification Pack: FRC B2M-B2B System Architecture (version 3.3) which has been attached separately to this document.

ATTACHMENT F – SPECIFICATION PACK FRC B2M-B2B SYSTEM SPECIFICATIONS

Blue represents additions **Red** and ~~strikeout~~ represents deletions – Marked up changes

Please refer to the marked-up copy of the Specification Pack: FRC B2M-B2B System Specifications (version 3.7) which has been attached separately to this document.