

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

Issue Number	IN034/16				
Impacted Jurisdiction(s)	All				
Proponent	Nandu Datar	Company	AEMO		
Proponent e-mail	Nandu.datar@aemo.com.au	Proponent phone	03 9609 8851		
Affected Gas Market(s) Retail Wholesale Bulletin Board STTM	Retail	Date proposal sent to AEMO	2/11/2016		
Short Title	Self Service initiative to FRC HUB Certification process.				
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)	During participant certification, constant handover between the participant and FBSAdmin is causing significant delays. This is causing delays in participants going live.					
2. Reference	FRC Hub Participant User Guide					
documentation	Connectivity Testing and Technical Certification (SA and WA) ¹					
 Procedure Reference GIP/Specification Pack Reference Other Reference 	Gas FRC B2B Connectivity Testing and Sys Certification (VIC , QLD and NSW/ACT)					
3. The high level details of the change to the	AEMO's certification responder was recently enhanced to support a self-service feature.					
existing Procedures This includes:	The changes proposed in this Proposed Procedure Change (PPC) are documentation only changes. They are:					
 A comparison of the existing operation of 	Amend FRC Hub Participant User Guide to:					
the Procedures to the proposed change to the operation of the	 Include self-service certification feature in 'Responders', 'Certification' sections and Appendix A 					
Procedures.A marked up version	 Remove 'Disaster Recovery Provisions' diagram from Appendix C 					
of the Procedure change (see	Amend FRC B2B Connectivity Testing and System Certification (VIC and QLD and NSW/ACT) to:					
Attachment A).	 Include self-service certification feature in 'Preparation for Certification' 					
	 Modify certification process diagram and description. 					
	Amend Connectivity Testing and Technical Certification (SA and WA) to:					
	 Include self-service certification feature in 'Certification Pre-requisites' 					
	 Modify certification process diagram and description 					
4. Consequences for making or not making the change(s)	If the current process is maintained, participants will continue to experience further delays whilst FBSAdmin manually checks the transactions.					

¹ The Connectivity Testing and Technical Certification document forms part of the AEMO Specification Pack therefore a formal Procedure consultation is required for SA and the WA PCC will need to review and ERA approval is required.

5. Explanation regarding the order of magnitude of the change(s) (eg: material, non-material or non- substantial)	A Gas Market Issue (GMI) on this proposal was issued to the Gas Retail Consultative Forum (GRCF) for discussion at the meeting held on 8 November 2016. Participants were invited to provide feedback on this proposal to AEMO by 21 November 2016. AEMO received responses from, AGL, Origin Energy, APA, Jemena and Multinet Gas. None of those responses opposed the changes. APA feedback proposed further changes. AEMO's assessment of APA's changes is that they add further clarity and the documentation has been updated accordingly.
	substantial based on the feedback provided during the GMI consultation and the fact that it is only documentation changes.
6. Likely benefits for industry as a whole	Since the bottleneck on FBSAdmin is removed, this should result in a much quicker turnaround time for certification.
7. The likely implementation effect of the proposal on Industry in general and/or any identified parties (e.g. end-users)	Participants can now dynamically check the transactions for certification themselves and do not need to wait for FBSAdmin to verify the transactions for them. FBSAdmin will only verify the transactions at the end. Participant can still access FBSAdmin resources for technical support if required.
8. Testing requirements	None
9. Supporting Documentation (attach if necessary)	See attachment A, B and C
10. If applicable, a	Subject to all necessary approval's AEMO is targeting to
proposed effective date for the proposed	implement this before 31 March 2017.
changed Procedures to	To achieve this AEMO proposes the following timeline:
take effect and	Issue PPC 2 December 2016
justification for that timeline.	Submission on PPC close 23 December 2016
	Issue IIR (expedited consultation) on 9 January 2017
	Submission on IIR close 31 January 2017
	AEMO decision before 6 March 2017

ATTACHMENT A

Proposed changes: FRC HUB PARTICIPANT USER GUIDE Red strikeout means delete and blue underline means insert

2.6 Administration

The hubs are currently administered by AEMO. The name of the administration section is FBS Administration or FBSAdmin. To contact FBSAdmin call the AEMO support hub 1300 236 600 mentioning Gas B2B Hub, or e-mail fbsadmin@aemo.com.au_support.hub@aemo.com.au

3.4 Responders

The Responders are a part of the PreProduction Hub infrastructure and are available for participant use. The functionality available to users is:

- aseXML validation submit an aseXML document and have it validated against the aseXML schema.
- aseXML message sending submit an aseXML document and have it wrapped in ebXML and sent to the defined recipient's PreProduction gateway.
- Certification a number of screens to guide a participant through the certification process.
- <u>Certification Checker review the current status of a certification run.</u>
- System notifications (see section 4.3).
- View transaction details search and view transactions that have been submitted to and from a recipients gateway.
- Resubmit transactions resubmit a transaction from the Hub to a recipients gateway.
- Partner Profiles view external id's and contact details of participants.

3.6 Certification

Currently, all Market Operators require that participants pass certification before they are allowed access to the Production Hub. Each Market Operator has a Certification Process document that describes the necessary steps to be taken by participants in order to certify. Contact the relevant Market Operator to obtain a copy. The certification process involves sending documents to, and receiving documents from, the Certification Responder (FBS). To support the process a browser based User Interface is available on the Responder. See Appendix A for instructions in the use of this interface.

Once certification is carried out, the participant will review their certification status of all messages and transactions that are required to be certified via the Certification Checker. Once those transactions have passed, FBSAdmin will then do a final review of the transactions and acknowledgements that have been sent by the participant. A report will be created and forwarded to the participant and the relevant Market Operator. The Market Operator will review the report in accordance with that market's requirements and, if satisfied with the results, will notify FBSAdmin and the participant of successful certification.

Following successful certification FBSAdmin will create a profile on the Production Hub which, when activated, will enable the participant to send production transactions within the applicable market.

Appendix A FRC Hub Portal User Interface

The FRC Hub Portal user interface provides access to a number of functions. Below is a summary of the functions available across the Production and Preproduction environments:

Function	Production	Preproduction
View transaction details	\bigcirc	\bigcirc
Send aseXML		\bigcirc
Validate aseXML		\bigcirc
Resubmit transactions	\bigcirc	\bigcirc
Email notifications	₿	
Perform certification	8	\bigcirc
Certification checker	8	0
Partner profiles	\bigcirc	\bigcirc

The Preproduction environment provides access to two responders – **FBS** and **FBSTEST**. The **FBS** responder is used for official certification and the **FBSTEST** responder is used as a sandpit environment and is a mirror of the certification environment. The sandpit is for participants to use when they wish to send messages through the FRC B2B System in a Preproduction environment. Participants can practise the certification processes in the sandpit before requesting formal certification via the certification responder.

Refer to Section 2.4 for further details on environments.

A.3 Certification Checker

The Certification Checker is a search screen that allows you to view details of certifications that you have participated in, either as a sender or receiver. <u>The Certification Checker will give the status (pass/fail) of both Window 1 and Window 2 certification.</u>

To view details of completed certifications:

1. From the menu click **AEMO**, then **Partner**, then **Custom** and then **Certification Checker**.



2. The Certification Checker window displays.

RMO certificationChecker Image: CertificationChecker Partner Responder: FBS Image: CertificationChecker Send AseXML Certification Details Certification Checker Certification Details Send AseXML Receiver Name: FBSTEST Certification Sender name: FBSTEST Certification Sender name: FBSTEST Email Notification Market: VCGAS Integration YCGAS Y Daber Administration Empty Integration Empty Y Daber Administration Empty		0						FRO	снив 🗗 🕻)
Particle Certification Clock of Sand AlexNi, Wold in AlexNi, Control and Alexned ID Responder: [PS:] Image: Sand AlexNi, Control and Alexned ID Image: Sand Alexned ID	AUSTRALIAN ENERGY MARKET O	OPERATOR						FBS TN	About Help Log	<u>10ut</u>
Patter Controls Control	Navigate	🍄 Certification Ch 🔻 🛛								
Partie Responder: [15] Image: [15] Image: [15]	EMO	certificationChecker								▼ 🗉
Cutilitation Checker Social Add/L Social Add/L </td <td>Partner</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Partner									
Sed AdvAl, Valdat AdvAl, <t< td=""><td>▼ Custom</td><td></td><td>Responder: FBS</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td></t<>	▼ Custom		Responder: FBS		•					
Value for Pole Certification Beaching Receiver filtance Control Beaching Receiver filtance Pole		Certification Details								
Water Addols Certification Name Name <t< td=""><td></td><td></td><td>Receiver Name: FB</td><td>TEST</td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>			Receiver Name: FB	TEST	-					
Dark Notified Sead Sead Sead National National <td></td> <td></td> <td>Sender Hame: 175</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			Sender Hame: 175							
Initialized protocol P308 Transaction Respectation P309 P300 Respectation P300 P3000 P30000 P30000 P30000 P300000 P300000 P3000000 P3000000000 P3000000000000000000000000000000000000										
Integration * 28 Transaction liame Tr			Market: VIC	GAS	•					
12 Bit Transaction I June Transaction I Juse Status Harket * Ack Transaction Status * Ack Receipt I D * Res Receipt I Res<		Certification Results								
Transactions Nature Ack User Status Ack User S										
All population B2B * Safter Administration * Safter Administration * Partier Administration * Partier Administration * Safter Administration <tr< td=""><td></td><td>Transaction Name T</td><td>ransaction ID . User Status</td><td>Transaction Sta</td><td>atus Market A</td><td>ck Transaction Statu</td><td>s Ack liser Status</td><td>Ack Receipt ID Pass</td><td>[™] Reason[™] Doc Timest:</td><td>amn[*]</td></tr<>		Transaction Name T	ransaction ID . User Status	Transaction Sta	atus Market A	ck Transaction Statu	s Ack liser Status	Ack Receipt ID Pass	[™] Reason [™] Doc Timest:	amn [*]
Regration Partier Andreissans Ratter Profiles			Tunsuction 10 Osci Stutus	Transaction Sec	itus murket y			Ack Accept 10	Redson Doc milest	huib
Partner Administration Partner Poficies Provend py Software Exercise Str (Cr C+10:00) Provend py Software Image: Str (Cr C+10:00) Image: Str (Cr C+10:00) Image: Str (Cr C+10:00) Image: Str (Cr C+10:00) <td></td>										
		Check Results Export to C	csv							
Partner Portles tests Ef (TCr + 10x) Tests Ef (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr + 10x) Tests If (TCr +										
ters ET (CT e 1xxx)										
Address	T di di ci i l'inco									
visite visite <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Powered by So</th> <th>ftware i</th>									Powered by So	ftware i
visite visite <th>I times EST (UTC+10:00)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>roncica by bo</th> <th></th>	I times EST (UTC+10:00)								roncica by bo	
Window and model Pathener Phylicities Centification	l times EST (UTC+10:00)								•	
avagate Patter Profiles Cetification Transactions Send AssXML Validate AssXML Activity Log User Preferences Certification Ch • • Activity Log Control Certification Deckers Send AssXML Validate AssXML <									•	
0 Responder: [FBS v] rither Responder: [FBS v] Continu Sender Name: [FBS[ST] v] Certification Cleads Receiver Name: [FBS[ST] v] Cardinal Clean Name: [FBS[ST] v] Narket WGADS v] Date Train Bit Refacility/Iver v] Date Train Since Form: [S] Time: [0] : [0] : Date Train Since Form: [S] Time: [0] : [0] : Date Train Since Form: [S] Time: [0] : [S] : Date Train Since Form: [S] Time: [S] : [S] : Certification Name: Trainsaction ID beer Status Trainsaction Status Ack Receipt ID Pars Reason Dec Timestamp" Employ Cites Reads Logorth CSV									FRC HUB	
rtter Regioner Teleschen Telesche									FRC HUB	Logo
Attemp Certification Decket Sond Account Sender Name: [FB5 \$] Validate Assonting Receiver Name: [FB5 [E57 \$] Date From: Rescuer relation (Decket] Ball Motification Name: [FB5 [E57 \$] Date From: Receiver Name: [FB5 [E57 \$] Certification Resme* Transaction Status * Ack ItersStatus * Ack Receiver ID* Pass * Reason * Doc Timestamp* Expression Expression State Faminet Citor Resme*		Partner Profiles O Certification	Transactions O	Send AseXML	Validate AseXML	Activity Log	User Preferences	© Certification Ch ▼ ③	FRC HUB	Logo
Certification Checker Sand Ascritt, Valider Ascritt, Certification Egatifier Egatifier Transaction Hame* Sender Name: [FBS v Receiver Name: [FBS v] Receiver Nam	Vigate	Partner Profiles O Certification		Send AseXML		Activity Log	User Preferences	Certification Ch V	FRC HUB	Logo
Sand Acadity Cardinata Acadity Bandi Motification Romip Bandi Motification Romip Bandi Romip Bandi Motification Romip Bandi Romip Bandi Motification Romip Bandi Romip Ban	vigate %			Send AseXML		Activity Log	User Preferences	◎ Certification Ch ▼ ◊	FRC HUB	Logo
Validat Advil, Certification Enail Indification Enail Indification Ena	vigate S		Responder: FBS	Send AseXML	¥	Activity Log	0 User Preferences	◎ Certification Ch ▼	FRC HUB	Logo
Email Notification Role::: Relation/User *** Grand Notification Date From::: Trainsaction (Do: 0): Distribution:: Distrib	vigate & Certification Checker		Responder: FBS Sender Name: FBS	Send AseXML	Y	Activity Log	0 User Preferences	© Certification Ch ▼ O	FRC HUB	Logo
toring Image: Contract of the state of t	vigat *		Responder: FBS Sender Name: FBS Receiver Name: FBSTEST	Send AseXML	¥ ¥	Activity Log	O User Preferences	⊙ Certification Ch ▼ ♥	FRC HUB	Logo
tegration 3d9 Transaction Results Activity Log User Proferences activity Contracts and a provide activity of the Contract activity of the C	vigate & Certification Vigate Certification Vigate Certification Vigate Certification Vigate Certification		Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: VVCGAS		v v v v	Activity Log	Q User Preferences	0 Certification Ch 🕶 🏵	FRC HUB	Logo
28 Lute 10! Inter 10 Inter	ALEXANDER AND AL		Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: VICGAS Role: Retailer/Us	R	¥ ¥ ¥ ¥	O Activity Log	User Preferences	0 Certification Ch → 0	FRC HUB	Loge
Admity Log User Performers separation 28 Public Administration 28 Public Administration	vigate (%) Certification Checker Send Aacolt Vididate Aacolt Cartification Cartification		Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: VICGAS Roke: RetaienUb Date From:	r 3 Time: 00 : 00	• • • •	O Activity Log	O User Preferences	0 Certification Ch ▼ 0	FRC HUB	
Uber Medresses Iransaction Name* Transaction 10° Uber Status* Transaction Status* Ack Uber Status* Ack Uber Status* Ack Receipt ID' Pess* Reason* Doc Trinestamp* sistration Empty Empty Empty Empty Empty Empty	vigate *		Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: VICGAS Roke: RetaienUb Date From:	r 3 Time: 00 : 00	• • • •	O Activity Leg	O User Preferences	O Certification Ch ▼ O	FRC HUB	Coga
nistration instration instra	vigate *	Certification Details	Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: VICGAS Roke: RetaienUb Date From:	r 3 Time: 00 : 00	• • • •	O Activity Log	O User Preferences	0 Certification Ch • 0	FRC HUB	Cogo
egration 28 Check Results Esport to CSV	vigate vigate v	Certification Details	Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: WCGAS Roke: Retailer/US Date From: Date To:	r 3 Time: 00 : 00	v v v i :				FRC HUB	l Logo
28 Check Results ExportorCSV Pather Administration	vigat * Control Contr	Certification Details	Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: WCGAS Roke: Retailer/US Date From: Date To:	r Time: 00 : 00 Time: 00 : 00	v v v i :	ransaction Status*			FRC HUB PSSTN Help	
	vigate	Certification Details Certification Results Transaction Name* Transacti	Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: WCGAS Roke: Retailer/US Date From: Date To:	r Time: 00 : 00 Time: 00 : 00	v v v i :	ransaction Status*			FRC HUB PSSTN Help	
	vigat Certification Checker	Certification Details Certification Results Transaction Name* Transacti	Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Market: WCGAS Roke: Retailer/US Date From: Date To:	r Time: 00 : 00 Time: 00 : 00	v v v i :	ransaction Status*			FRC HUB PSSTN Help	

- 3. Complete the search form fields:
 - **Responder:** The responder used to perform the certification.
 - Receiver Name: The participant receiving the certification transaction.
 - Sender Name: The participant initiating the certification transaction.
 - Market: The market used to perform the certification.
 - **Role:** The role of the participant in the market (used to determine which transactions are required to be submitted/received)

- Date From: The date where transactions/messages should be searched from
- Date To: The date where transactions/messages should be searched to
- 4. Click **Check Results**. The corresponding certification records appear in the **Certification Results** table. The following information displays:
 - **Transaction Name:** The name of transaction/<u>message</u> that was submitted in the certification.
 - Transaction ID: The ID that was returned in the Ack response.
 - User Status: The status of the aseXML transaction.
 - Transaction Status: The status of the submitted certification transaction.
 - Market: The market used to perform the certification.
 - Ack Transaction Status: <u>The status of the returned ack (Accept/Reject)</u>
 - Ack User Status: If rejected the reason for the rejection
 - Ack Receipt ID: <u>The receiptID of the received ack</u>
 - **Pass:** Indicates whether the certification passed or failed.
 - **Reason:** Reason for a failed certification. 'Pass' is displayed for certifications that have passed.
 - Doc Timestamp: The time the transaction was sent

											FF	RC HL	јв 💽 🕻
		R											
	vicata	Contification (h	0										
	rtner			Deserved as 1500			-						
				Responder. 1005			•						
		Certification Detai	ils				_						
				Sender Name: FBS	ŝ		-						
	Email Notification			Market: WA	GAS		-						
	itoring	Cartification Resul	lte										
		Certification Resul	10										
Initial Control Initian Control Initial Control						Transaction		Ack Transaction	Ackline				
		Transaction Name					Market	Status	Status		Pass	Reasor	
		NMIStandingDataUpda	ateNotification a	BS-5a390cc0-1e2c-460a-b5d e8bb04	4- aseXML sent: ack 1	Accept	WAGAS	Accept	aseXML ack:rec	5c72e5d6-0bc9-4a3f-ba44- 52719737bc3e	v	Pass	2015-01-19 18:47:06.277
		CATSObjectionReques	- F	BS-d142da29-3ca1-48d1-8e6	i4- aseXML sent:	Accent	WAGAS	Accept	aseXML ack:rec	6a50c0ab-3bfe-465b-82fd-		Pass	2015-01-29
Partice Prodels Image: Book Base Base Base Base Base Base Base Base											V		
	Partner Profiles	CATSObjectionWithdr	awal 9	67029c	ack 1	Accept			aseXML ack:rec		V	Pass	11:02:43.92
								1 - 3 of 3					
	m Certification			Responder: F88		ty Log O Use	r Preferences O	Certification Ch + 0					
	m tificetion Orecker d Ase3%, date Ase3%,			Sender Nome: 1958 sceiver Nome: 1957557	Y Y	tylog O Une	r Preferences O	Certification Chur. V 0			_	_	
Nome Description Descripi <thdescription< th=""> <thdescr< th=""><th>m Bification Otecker d AssNL Data AssNL UteEnation</th><th></th><th></th><th>Sender Name: 1768 zeiver Name: 17657257 Market: 1705845 Role: 17453874,567</th><th>Y Y Y Y Y</th><th>fylog O Use</th><th>e Preferences O</th><th>Certification Ch., Y 0</th><th></th><th></th><th></th><th></th><th></th></thdescr<></thdescription<>	m Bification Otecker d AssNL Data AssNL UteEnation			Sender Name: 1768 zeiver Name: 17657257 Market: 1705845 Role: 17453874,567	Y Y Y Y Y	fylog O Use	e Preferences O	Certification Ch., Y 0					
ne de la province de	r Certification m Vification Otecker date Austria date Austria al histification			Sender Nome: 1765 sceiver Name: 17657257 Market: VCGAS Rok: 1912Bit/CLie/ Date From: 185 Time:	V V V V V	lyLog O Use	e Preferences O	Certification Ch., + 0					
Md pg md md md md md md md md md Sp md md md md md md md md md Sp md Sp md Sp md Sp md	Certification Certif	Details		Sender Nome: 1765 sceiver Name: 17657257 Market: VCGAS Rok: 1912Bit/CLie/ Date From: 185 Time:	V V V V V	fyLog G Use	r Perferences 0	Certification Ch > 0					
Normality <	m Ilification Orecker Jacobia Jacobi	Details	R	Sender Name: 1989 Cediver Name: 1995/2017 Market: (VCGAS Robe: 1992/874.847 Date From: 2017 Time Date Too 2017 Time	V V V V V			Gertification OL > 0					
mk mk<	Continuation Conti	Delakis Results Transactions Transactions	6 csb-466-s 70-42 as 75.00	Sender Name: 1989 Schler Name: 1989/2021 Market: 1992/2021 Roke: 1992/2021 Date From: 1992/2021 Date Too: 1992/2021 Uter Station [®] Transattio Elife Sendiferanza monitati	V V V V V	м	srket^{**} Ack Transact	on Stater"	Pong	F85TEST 71029861-87bb-4062-9c89-5a6	🖌 Pass	*	
montes	n market and the second	Regular Regular Internet Protocology Reductive Heavy P132000455 Reductive Heavy P132000455	€ 	Sender Name. 1953 Localer Name. 195327 Market. 1702A3 Role: 1940BLAR Date Frans: 1950 Tone User Status Transaction Little Senderspuncted Little Senderspuncted	V V V V V	44 14 10 10 10	arket [®] Ack Transacti L. Accept GAS Accept CAS Accept	on States"	Pong A dorowled gment A dorowled gment	7 857857 71029861-8700-4062-9c89-546 7 857857 de 6e 227e-10da -44d2-90e6-071 7 857857 de 6e 227e-10da -44d2-90e6-071	Pass		
Op/Instant/Shine Op/Instant/Shine/Shin	A constraint of the const	Details Becails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails Resails	0 00-0001000000000000000000000000000000	Sender Names 1963 Sender Names 1963 Narket 1763/3 Roke 1963/3 Dete Foil 1965 Dete Foil 1975 Dete Tol 1975	V V V V V	94 4.0 100 100 100 100 100	arket [®] Ack Transact L Accept Calis Accept Calis Accept	or finite tion (States)	Pong Arknowledgment Arknowledgment aseKMLackinet	785785771029861-4765-4062-9685546 7857857.0e6e227e-100a-4462-90e6-011 7857857.0e6e227e-100a-4462-90e6-011 e5078086-1763-43c1-5866-3c01.9e0ec20	Pass Pass Pass Pass Pass Pass Pass Pas		
Sandbardsampung Sandbard	Alexandre Constanting and a second and a second constanting and a second constanting and a second and as	Details Results Re	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sender Names. 1953 Sender Names. 1953 Narket. 1953 Roke 1953 Dete Tox Dete Tox User Status List Status	V V V V V	944 4.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	nict [®] Actignment Accept Gels Accept Gels Accept Gels Accept Gels Accept Gels Accept Gels Accept	os Ester	Pong Adonovledgment Adonovledgment aseXMLack.rec aseXMLack.rec aseXMLack.rec	PRSTEST 71029861+8708-4062-9085-546 PRSTEST 066227e-1008-4462-9086-011 PRSTEST 066227e-1008-4462-9086-011 eS078088-1703-43c1-9806-30011980620 87458282-9027-427-4361-9806300119806 cfs18811-559-44649-9803-2950c6038152	Pass Pass Pass Pass Pass Pass Pass Pass Pass		
Amari-Candenstandian Period National Period National Nation	Acade A	Near Transmission Near Transmission Near Transmission Near Near Note (Near N	C 	Sendor Names, 1993	V V V V V	純 品。 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	arket Ach Transact A. Acmyl Calis Accept Calis Accept Calis Accept Calis Accept Calis Accept Calis Accept Calis Accept	ov States*	Pong Advowled gment Advowled gment esel04, exkree asel04, exkree asel04, exkree asel04, exkree asel04, exkree	PI6TEX71004614708-002-9465546 PI6TEX71046222+1064-9422-9085-01 PI6TEX71046222+1064-9422-9085-01 PI6TEX71046222+1064-9422-9085-01 PI6TEX71046222+1064-9422-9085-01 PI6TEX704-010-9103-91020-97005 Cfc1001-539+4649-940-3-255005018152 as4707203-9001-9733-035-075-2644665 1120929-9410-9410-9805-035-0552846465 1120929-9410-9410-9805-035-0552846465 1120929-9410-9410-9805-035-0552846465 1120929-9410-9410-9805-035-0552846465 1120929-9410-9410-9805-035-0552846465 1120929-9410-9410-9805-035-0552846465 1120929-9410-9410-9805-0352-0552846465 1120929-9410-9410-9405-035-0552846465 1120929-9410-9410-9405-035-0552846465 1120929-9410-9410-9405-0352-0552846455 1120929-9410-9410-9405-0352-0552846455 1120929-9410-9405-0352-0552846455 1120929-9410-9405-0352-0552846455 1120929-9410-9405-0352-0552846455 1120929-9405-9405-9405-9405-9405-9405 1120929-9405-9405-9405-9405-9405-9405-9405-940	Pass		
Envolvednadt Envolvednadt Sentilstand	Alexandrow Alexandro	Baselet Baselet March 2001 March 20	C C C C C C C C C C C C C C	Static Wins; (P3) Solar Wins; (P3) Maket; (P2) Bate Yean; (P3) Date Yean; (P3) Date Yean; (P3) Date States; Tenestell Date States; Tenestell SoldWate; SoldWate;	V V V V V	44 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	arket Ack Traessect L Ack Traessect G45 Accept G45 Accept G45 Accept C455 Accept C455 Accept C455 Accept C455 Accept	on Batua"	Pang Advowledgment Advowledgment aseKM, ack rec aseKM, ack rec aseKM, ack rec aseKM, ack rec aseKM, ack rec aseKM, ack rec aseKM, ack rec	10000000000000000000000000000000000000	Pass		
VISToncyclashapenel	n Generation Contraction Contr	Details Tested of the second of	2 col-400 + 50 - 40 ar 73.36 col-400 + 20 - 41 973 0b ed-400 + 20 - 11 973 0b ed-400 + 20 - 14 973 0b - 103 - 40 - 40 - 40 - 40 - 40 - 103 - 400 - 400 - 400 - 400 - 400 - 103 - 400 - 40	Sender Names (PE) colorer Names (PE) Metels (PC/SAM Rabs (POWNLAW Det From (POWNLAW	V V V V V	11 1 14 1 14 1 15 1 15 1 15 1 15 1 15 1	Schell Schellpressel 1 Annyn Code Annyn	or finite the Co. • • 0	Pong Admowledgment Admowledgment assONa, ackine assONa, ackine assONa, ackine assONa, ackine assONA, ackine assONA, ackine assONA, ackine assONA, ackine	10000007 71000401-0704-042-0485-44 1000007 1000000000000000000000000000000	Pass Pas Pas Pass Pass Pass Pass	-	
C1500-pdfsquare PdfsdBr0-bdf-d2-ddf0Blad AveDL_set has	According to the second s	Kesak K	2 	Sendor Yunes, 1923 center Yunes, 1923 Metel, 1925 Bate 1920 Det Form 1920 De	V V V V V	4.4 4.4 50 50 50 50 50 50 50 50 50 50 50 50 50	Like Top Like Top Like Top L Annyal Annyal Good Annyal Annyal Good Annyal Good	os Enteri	Pong Adorsvindigment Adorsvindigment ass004, sok res ass004, sok res	************************************	Pass Pas P	-	
CityBuffundio MitSillamPidueHamPidueHamPidue HamPillam et al.1 CityBuffundio exetOl kantin exet	Acceleration A	Decade Testencian Brand Testencian Testencian	C 	Sendor Names (PE) catalog	V V V V V	M 44 10 10 10 10 10 10 10 10 10 10 10 10 10	Acts Acts Transmit 1 Actignt Actignt 2 Actignt Actignt 3 Actignt Actignt	on Status"	Pong Admonial greet Admonial greet asol01, sokret asol01, sokret	************************************	Pass Pass		
Cli>Clippele/L MS1/USD-DL444645150200 et al.1 Vicité Fongli extr0/Late fondlisherungsgi Fallelisherungsgi MS1/USD-DL444645150200 et al.1 MS1/USD-DL44465150200 et al.1 MS1/USD-DL4446515	Accellent Contact of the Accellent Accell	Near Teacontrol Near Teacontrol on the second sec	2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sender Yunas (93) scalar / Yunas (93) Metels (72/54) Babs (72/54) Ba	V V V V V	14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Acte 1 Act Transmit L Angel GGE Angel	er frieden ob • 9	Pang Admoving greet Admoving greet as 60%, askree as 60%, askree	FBTUT 71 102883.0-708-016.4-88-544 FBTUT 51 662-72-1028-4-45-20-86 FBTUT 51 662-72-1028-4-45-20-87 FBTUT 51 564-72-1028-4-45-20-87 FBTUT 51 662-72-20-84-20-86 FBTUT 51 664-72-20-84-20-86 FBTUT 51 664-72-20-84-20-86 FBTUT 52 664-72-40-10-86 FBTUT 52 664-72-40-10-86 FBTUT 52 664-72-40-86 FBTUT 52 664-72-60-86 FB		-	
Adata Twanyi Bagata Tuundin Adata managing dangta sepatu jigit 102.000 Tuundin Adata managing dangta sepatu jig	Contraction Contracti	Based 0 Terrestore Terrestore Terrestore Note Andrew 1 Terrestore	2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sendor Yames 03 cechier Yames 03 Meteral 0503 Meteral 0503 Meteral 0503 Meteral 0503 Meteral 0503 Meteral 050 Me	V V V V V	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	A. 14 A. Araysi A. Araysi Araysi GGG Araysi<	or String	Ping A discount gravet A discount gravet A discount gravet a e00%, solver a e00%, solver		Pass Pass		
WSZandoplatnepore X Toreaction relation JarwetZastarolitak X Toreaction relation GYlarwetZastarolitak X Toreaction relation	Alexander A	Desails Testeriolities Breach Tester/collitie Jacabardel, Nazay Tester/collitie Jaga Tront Multi-Saltifie Jaga Tront Multi-Saltifie Jaga Tront Tester/Saltifie	Comparison of the STS of the	Sendor Panes: [93] scalar Panes: [93] Matel: [0204 Role: [9000.247 Bate From: [10] Bate Fro	V V V V V	M M 10 10 10 10 10 10 10 10 10 10 10 10 10	style Actor Presented Actor Actor Cold Actor	os Estas	Ping A downledgenet A downledgenet 4 80% Leither 8 80% Leither		Pass Pas Pas		
InsetStatesetMain CohenetStateStatesetMain CohenetStateStatesetMaintain	Action Control Co	Actual Testendra 1 Name 2 Testendra 12 Name 3 Testendra 12 Name 4 Testendra 12 Name 7 Testendra 12	Comparison of the STS of the	Standor Names, (PS) adder Names, (PS) adder Names, (PS) adder Names, (PS) Andere S, (PS) Total Particular Total Particular Total Particular Standor Names, (PS)	V V V 0.00 ; 0.00 ;		Annu Annu L Annu Cold Annu	or Statuy ^a	Ping 1. Associalized prior of 2. Associalized prior of 2. Associalized prior of 2. Association of the association 2. Association of the association of the association of the association 2. Association of the association of the association of the association 2. Association of the associa		Pass Pass	n (Laisin mar	ayog stienste equeted 2 y d 5
	Contraction Contracti	Details Terminical Brand Terminical Marcal Terminical<	Comparison of the STS of the	Standor Names, (PS) adder Names, (PS) adder Names, (PS) adder Names, (PS) Andere S, (PS) Total Particular Total Particular Total Particular Standor Names, (PS)	V V V 0.00 ; 0.00 ;		Annu Annu L Annu Cold Annu	or Statuy ^a	Ping 1. Associalized prior of 2. Associalized prior of 2. Associalized prior of 2. Association of the association 2. Association of the association of the association of the association 2. Association of the association of the association of the association 2. Association of the associa		Pass Pass	on missing	agog stiende epoche 3 yet
	n Generation Conservation Conse	Attack Texture level 10 New Control 10 Texture level 10 1 Texture level 10	Comparison of the STS of the	Standor Names, (PS) adder Names, (PS) adder Names, (PS) adder Names, (PS) Andere S, (PS) Total Particular Total Particular Standor Names, (PS) Standor Names, (PS	V V V 0.00 ; 0.00 ;		Annu Annu L Annu Cold Annu	or Statuy ^a	Ping 1. Associalized prior of 2. Associalized prior of 2. Associalized prior of 2. Association of the association 2. Association of the association of the association of the association 2. Association of the association of the association of the association 2. Association of the associa		Pass Pass	on mesing on mesing on mesing	aýny dikenyla nyukati) yd 2
CSMetworkCUSCNaTwrDD Transation missing		Decksite Decksite Breads Person Decksite Bread Person Decksite Bread Person Decksite Breads Person Decksite	Comparison of the STS of the	Standor Names, (PS) adder Names, (PS) adder Names, (PS) adder Names, (PS) Andere S, (PS) Total Particular Total Particular Standor Names, (PS) Standor Names, (PS	V V V 0.00 ; 0.00 ;		Annu Annu L Annu Cold Annu	or Statuy ^a	Ping 1. Associalized prior of 2. Associalized prior of 2. Associalized prior of 2. Association of the association 2. Association of the association of the association of the association 2. Association of the association of the association of the association 2. Association of the associa			brimksing brimksing brimksing brimksing	nýng dženyti nyvelat 1 gd 3
Contexecutationship		Details Constant Details Testenchen II Intera [®]	Comparison of the STS of the	Standor Names, (PS) adder Names, (PS) adder Names, (PS) adder Names, (PS) Andere S, (PS) Total Particular Total Particular Standor Names, (PS) Standor Names, (PS	V V V 0.00 ; 0.00 ;		Annu Annu L Annu Cold Annu	or Statuy ^a	Ping 1. Associalized prior of 2. Associalized prior of 2. Associalized prior of 2. Association of the association 2. Association of the association of the association of the association 2. Association of the association of the association of the association 2. Association of the associa			on missing on missing on missing on missing on missing on missing	agong addeningto organizati 2 gal 1
CSMearCUGAbClabdedadFinites Transformiting CSMearCUGAbClabdedadFinites CSMearCUGAbClabdedadFinites Transformiting L-36 d'3		Decision Decision Decision Marce 200401 Marce 200401 Marce 200401 Mare 200401 Marce 200401	Comparison of the STS of the	Standor Names, (PS) adder Names, (PS) adder Names, (PS) adder Names, (PS) Andere S, (PS) Total Particular Total Particular Standor Names, (PS) Standor Names, (PS	V V V 0.00 ; 0.00 ;		Annu Annu L Annu Cold Annu	or Statuy ^a	Ping 1. Associalized prior of 2. Associalized prior of 2. Associalized prior of 2. Association of the association 2. Association of the association of the association of the association 2. Association of the association of the association of the association 2. Association of the associa		Pass	on missing on missing on missing on missing on missing on missing on missing	aging allengta especied 3 gel C

5. Click **Export to CSV** if you wish to obtain an export of the search results in CSV format.

A.6 View transaction details

The **View transaction details** window allows participants to search and view transactions that have been submitted to, sent and received by a recipients gateway, and is available on both the Production and PreProduction FRC hubs.

To search for a transaction:

1. From the menu click **Monitoring**, then **Integration**, then **B2B** and then **Transactions**.



2. The Transactions window displays.

)		FRC HUB
Navigate	Transactions V		
▼ АЕМО			TN Server: HUB
Partner Custom	Datasource		▼ ⊟ 🗉
Certification Checker Send AseXML	Data Source: Production Data	T	
Validate AseXML Certification	Search		▼ 🗄 🛙
Email Notification	Basic Advanced Saved Options		
▼ Monitoring	Query Fields		
▼ Integration	Field Operator	Value	
▼ B2B Transactions	<select a="" field=""></select>	00	
▼ Administration	Date Range All		
✓ Integration			
▼ B2B	Start Date: Time: 00 : 00 EST (24-hour)		
▼ Partner Administration	End Date: 📰 Time: 23 : 59		
Partner Profiles			
	Show SQL.		Search Condition: AND v Search Save Clear
	Transactions		
	Reprocess Resubmt		
			Export Table
		Ready to Search	
		«Previous 1 Next »	
	Transaction Details		▼ ⊟ 0
	Activity Log Attributes Tasks Content Comments		
	No document selected		
All times EST (UTC+10:00)			Powered by Software At

3. Select the correct **TN Server** from the drop-down box at the top of the window. This field is used to filter the transactions based on a server. If **FBS** is selected, all transactions in which the FBS responder is the sender or receiver displays. Likewise for **HUB** and **FBSTEST**.



To view transactions older than 35 days but less than 1 year, Select **ARCHIVE** server from the **TN Server** drop down.

4. In the **Datasource** section, select the correct **Data Source** from the drop-down box.



To view transactions older than 35 days but less than 1 year, Select **Archived Data** from the data source drop down.

5.4. In the **Search** section, enter desired search criteria and click **Search**.



To save your search criteria for future searches, click **Save**. You will be prompted to provide a name and description. The search will be saved in the **Saved** tab of the **Search** section.

6.5. The search results display in the **Transactions** section. The following information displays:

- Date Received:
- Document Type:
- Sender:
- Receiver:
- Processing Status:
- User Status: The Status of all messages received by the gateway should be 'SendMessage:sent'. This indicates that the hub believes that the message was delivered successfully to the gateway. If the hub encountered an error attempting to send to the gateway the Status will be 'SendMessage:err'. If you need to obtain further details regarding the specific error contact FBSAdmin. The Status of all messages sent to the hub by the gateway should be 'MessageRouting'. If the hub encountered an error while processing the message (i.e. recipient not recognised, digital signature invalid, etc.) the Status will be 'RouteMessage:err'. However, errors encountered while delivering the message to the intended recipient do not get reported on this screen. If you need to determine this information you need to view the Activity Log entries by following the directions below.
- Document ID: The ebXML message ID.
- **Conversation ID:** The ebXML conversation ID plus a number generated internally by WebMethods. A Conversation ID is only recorded against messages that have been sent 'From' the participant. It is not recorded against the messages sent 'To' the participant.
- Related Documents:
- Details:
- Action:

Trans	actions										▼ ⊟ ⊡
Repro	cess R	esubmit									
								E	xport Table		
	ate eceived ▼	Document Type	Sender	Receiver [*]	Processing Status	User Status	Document ID [®]	Conversation ID ⁺	Related Documents	Details	Action
	0/02/2015 5:49:32	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP 25f58b8e-0864-4a59-85f6-43404ef4751c	VENCORP ENVESTRA VENCORP 25f58b8e-0864- 4a59-85f6-43404ef4751c	ð	۶	\odot
	0/02/2015 5:48:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP 2f5d9ab3-f42d-4ba9-a3ae-3e11c4e5911d	VENCORP ENVESTRA VENCORP 2f5d9ab3-f42d- 4ba9-a3ae-3e11c4e5911d	2	P	\bigcirc
	0/02/2015 5:47:34	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP eb196ff7-0a8f-40b6-b0a7-3278128ca0ba	VENCORP ENVESTRA VENCORP eb 196ff7-0a8f- 40b6-b0a7-3278 128ca0ba	2	P	\odot
	0/02/2015 5:46:33	ebXML Payload	RELAY (RELAY)	ENVESTRA (VIC)	DONE	SendMessage:err	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42- 4c74-833c-b8cdd8cdde31	2	P	\bigcirc
	0/02/2015 5:46:33	aseXML Transaction	VENCorp	ENVESTRA (VIC)	DONE	aseXML Transaction	VENCORP-MSG-d26817357f4e49f8a164c621		2	P	\bigcirc
	0/02/2015 5:46:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	MessageRouting:proc	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42- 4c74-833c-b8cdd8cdde31	2	P	\odot
	0/02/2015 5:46:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:sent	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42- 4c74-833c-b8cdd8cdde31	2	P	\odot



Participants are only permitted to view documents as they transit between the participant gateway and the hub. Therefore the 'Sender' is always either the participant or the hub, as is the 'Receiver'. Because of this, if a 'Sender' is input the results will only display Sent messages, regardless of the Sender that is input. If a 'Receiver' is input the results will only display Received messages.

7.6. To view details of a transaction, click either the magnifying glass icon \mathbb{P} in the **Details** field, or the date link in the **Date Received** field.

8.7. The transaction details display in the Transaction Details section. The Activity Log tab is displayed by default. You may also view the transaction Attributes, Tasks, Content and Comments by clicking the relevant tabs.

Tran	saction Det	ails									▼ 🗉 I
Date	Received:	11/02/2015 12:50:	00 Ser	der: <u>FBS - (Ce</u>	ertify Responder)	Receiver: <u>RELAY - (Hub)</u>					Send link to this documer
Act	ivity Log	Attributes	Tasks	Content	Comments						
Delet	e										
											Export Table
4	Туре⊤	Timestamp 🔻		Brief	Message			Class	User Name [*]	Partner ID	Details
	ų)	11/02/2015 12:50):00	Proce	essing complete			General	relay		P
	•	11/02/2015 12:50):00	Statu	is changed.			General	relay		P
	(i)	11/02/2015 12:50):00	Statu	is changed.			General	relay		P
	(i)	11/02/2015 12:50):00	Routi	ing rule ebXML Sen	d Message selected		Processing	relay		P
	Ū.	11/02/2015 12:50):00	Docu	ment persisted.			General	relay	FBS - (Certify Responder)	۶
						« Previo	us 1 Next	»			

The **Type** column indicates the type of log entry when you hover over the *icon*. If this is 'Message' the message was delivered successfully. If it is 'Error' the hub encountered an error while attempting to deliver the message. Not all messages have an Activity Log entry. Messages received by the gateway that were successful do not have an entry. Messages sent from the gateway that were delivered successfully have an Activity Log entry of type 'Message'. Messages both to and from the gateway that encountered an error will have an Activity Log entry of type 'Error'.

9.8. To view the transaction content, click on **Content** tab. The transaction content items display.

Transaction Details								
Date Received: 11/02/2015 11:17:27	Sender: RELAY - (Hub) Receiver	EBS - (Certify Responder)				Send link to	o this document
Activity Log Attributes Tasi	ks Content	Comments						
Save to Disk								
							Exp	ort Table
Name [*]			Size In Bytes [™]	Туре	Storage Type [*]	Storage Reference ^{**}	DETAILS	
ebxml			7559	multipart/related			P	~
Header			179	text/plain			P	
Envelope			5398	text/xml; charset="UTF-8"			P	
<asexml></asexml>			1649	application/xml			P	
·								

10.9. Click on the magnifying glass icon P in the **DETAILS** column for the item you wish to view. The content displays in a text editor window below.

lame T	Size In Bytes	Турет	Storage Type	Storage Reference [*]	DETAILS	
ebxml	7559	multipart/related			₽	
teader	179	text/plain			P	
invelope	5398	text/xml; charset="UTF-8"			P	
<asexml></asexml>	1649	application/xml			P	
Edit for Resubmit						
ontent-Length:7380						
OAPAction: "ebXML"	type="text/xml"; boundary="	-= Part 13078 1595160176.14236174	4200"; charset="UTF-8"; star	t=" <soappart>"</soappart>		
SOAPAction: "ebXML"	type="text/xml"; boundary="	-=_Part_13078_1595160176.14236174	4200"; charset="UTF-8"; star	t=" <soappart>"</soappart>		
<pre>30APAction: ebXML" Content-Type:multipart/related; =_Part_13078_1595160176.14</pre>	123617444200	-=_Part_13078_1595160176.14236174	4200"; charset="UTF-8"; star	t=" <soappart>"</soappart>		
SOAPAction:"ebXML" Content-Type:multipart/related; =_Part_13078_1595160176.14 Content-Type: text/xml; charset=	123617444200	-=_Part_13078_1595160176.14236174	14200"; charset="UTF-8"; star	t=" <soappart>"</soappart>		
30APAction:"ebXML" Content-Type:multipart/related; =_Part_13078_1595160176.1 Content-Type: text/xml; charset= Content-Tdi < <soappart></soappart>	123617444200 ="UTF-8"	-=_Part_13078_1595160176.14236174	14200"; charset="UTF-8"; star	t=" <soappart>"</soappart>		
30APAction:"ebXML" Content-Type:multipart/related; =_Part_13078_1595160176.1 Content-Type: text/xml; charset= Content-Tdi < <soappart></soappart>	123617444200 ="UTF-8"	-=_Part_13078_1595160176.14236174	14200"; charset="UTF-8"; star	t=" <soappart>"</soappart>		
SOAPAction:"ebXML" Content-Type:multipart/related; =_Part_13078_1595160176.14 Sontent-Type: text/xml; charset= Sontent-Id: <soappart> Content-Transfer-Encoding: bina</soappart>	123617444200 ="UTF-8" :y					
30APAction:"ebXML" Content-Type:multipart/related; =_Part_13078_1595160176.14 Sontent-Type: text/xml; charset: Content-Id: <soappart> Content-Transfer-Encoding: bina</soappart>	123617444200 ="UTF-8" :y			t=" <soappart>" ="http://www.w3.org/2000/09/xmldaig#"</soappart>		
=_Part_13078_1595160176.14 Content-Type: text/xml; charset: Content-Id: <soappart> Content-Transfer-Encoding: bina;</soappart>	123617444200 ="UTF-8" :y					,





FIGURE 4 NETWORK TOPOLOGY SHOWING DR PROVISIONS

ATTACHMENT B

Proposed changes: GAS FRC B2B CONNECTIVITY TESTING AND SYSTEM CERTIFICATION (VIC, QLD and NSW/ACT) Red strikeout means delete and

blue underline means insert

Responsibilities

FRC Hub Administrator	 The FRC Hub Administrator (AEMO) is responsible for operational management of the FRC Hub and provision of Certification Services. This includes: Provision and maintenance of a certification environment Review and reporting of certification tests E-mail: FBSAdminsupport.hub@AEMO.com.au Phone: AEMO Helpdesk 1300 236 600, (03) 9609 8000
Retail Market Operation (RMO) team	AEMO's Retail Market Operation (RMO) team are responsible for issuing advice on whether certification has been successfully completed. This is done in consultation with AEMO IT application support. E-mail: rmo@aemo.com.au

3. Preparation for Certification

Applicants will follow these steps to be eligible for certification:

- Applicants obtain the relevant Build Packs containing process flows, interface definitions and details of system architecture from AEMO. The Build Packs are available from the AEMO website: <u>www.AEMO.com.au</u>
- Applicants obtain an FRC Gas Hub Participant User Guide and Registration Form from AEMO website or FBSA by e-mail
- Prior to registering Participants should discuss with AEMO Retail Market Operation (RMO) team and confirm details via e-mail;
- Participants should discuss requirements with FBS Administrator and then register their intention to undertake certification by e-mail;
- Applicants connect their Test Gateway to the FRC Test Hub by following the instructions in the FRC Gas Hub Participant User Guide.
- The FBS Administrator will make available a 'Sandpit' environment for preliminary testing prior to formal certification. Applicants will use this environment to test their systems to prepare for formal certification.
- Applicants will arrange a time with the FBS Administrator to perform the certification process. This is an important step in the procedure. For FBS Administrator to be able to effectively analyse the results of a certification process it needs to know when the participant started and stopped sending transactions for certification.can commence certification at any time. They should note the start and end time of the certification run so transactions/messages can be analysed later.
- The applicant will then use the Certification environment to formally certify. Two stages of formal testing will be conducted by the applicant. These stages are described as Window 1, and Window 2. An applicant will need to have successfully completed Window 1 before commencing Window 2.
- Once completed, the applicant will then use the Certification Checker to ensure their transactions and messages have passed certification.

3.1 Certification Window 1 – Messaging (<u>ebXML</u>)

3.3 Certification Notification

When these procedures have been completed, the applicant will utilise the Certification Checker to ensure the certification has passed. Once the Certification Checker has shown all required transactions as passed the applicant will then advise the FBSA, who will review the results of the certification process. When an applicant has been successful, the FBSA will certify that on a technical basis, they are eligible to participate in the Gas Market, using the transactions for which they have been certified. The FBSA will produce a report advising the applicant and AEMO of the results of the certification process and the eligibility status of the applicant.

1. Certification Process



4,1 Communicating with Retail Market Operation (RMO) team and Hub Administrator

Initial contact with the Retail Market Operation (RMO) team or the FBS Hub Administrator should be preferably made via <u>e-mail</u>telephone. However, to ensure that there are records of key steps during the certification / re-certification process confirmation of key issues should be made via e-mail to the Support Hub.

Contact details for the Administrators are available at the front of this document.

4.2.8 Check Results

The Participant will then utilise the Certification Checker to determine which transactions/messages have passed certification. The participant will not notify FBSA until all required transactions/messages have passed certification

4.2.9 Review Results and Adjust

If the Participant has not successfully completed the test scripts they should review the results via the Certification checker and make the necessary adjustments to their gateway before re-testing their systems.

4.2.8.4.2.10 Review Results

The FBSA will review the results of the test scripts and determine whether the Participant has completed the test scripts successfully.

4.2.9.4.2.11 Outcome of Review

The FBSA determines whether or not the Participant has successfully completed the test scripts they were testing their gateway against and will notify the Participant accordingly.

4.2.12 Review Results and Adjust

If the Participant has not successfully completed the test scripts, they will repeat steps from section 4.2.9

4.2.10 Review Results and Adjust

If the Participant has not successfully completed the test scripts they should review the results of the test process and make the necessary adjustments to their gateway before re-testing their systems.

4.2.11.4.2.13 Inform Participant & AEMO

Once the Participant has successfully completed all the test scripts the FBSA will provide advice to both the Participant and AEMO Retail Market Operation (RMO) team that the Participant has successfully completed the test transactions.

4.2.12.4.2.14 Authorise Participant to use Hub

If AEMO is satisfied with the outcomes of the certification process and the Participant has met their other regulatory and market requirements enabling them to actively participate in the retail market, AEMO will then

- 1. If relevant advise other Participants that a New Participant is certified to use the Hub and provide the new Participants ID. New Participants should allow two weeks for other Participant's systems to be updated; and
- 2. Issue an authorisation for the Participant to actively send transactions through the FBS.

4.2.13.4.2.15 Participant Certified and Authorised to use Hub

At this point the participant is certified to send and receive transactions on the FRC Hub and AEMO has authorised them to use the Hub to conduct business.

NB: Communication of new Participant ID's, and any other information relevant to the operation of the FBS will be via e-mail. These messages will be sent to the communications mailbox nominated when participants register.

Appendix E – Form of AEMO Certification Checklist

Checklist attached can be accessed: http://www.aemo.com.au/Gas/-/media/F51E518A3AE146B89A529CA68822FFAC.ashxhttp://www.aemo.com.au/AEMO%20Home /Gas/Resources/Information%20Systems/~/media/Files/Other/retailgas/0700-0040%20doc.ashx

ATTACHMENT C

Proposed changes: CONNECTIVITY TESTING AND TECHNICAL CERTIFICATION (SA and WA) Red strikeout means delete and blue underline means insert

1.2 Certification Pre-requisites

Applicants will need to create and register a test gateway and back end system, and connect it to the FRC Gas Test Hub to enable certification to take place. Instructions for gateway registration and connection are contained in the FRC Gas Hub Participant User Guide, available on the AEMO website at http://www.aemo.com.au/-/media/Files/PDF/FRC-Hub-Participant-User-Guide.ashxwww.aemo.com.au/retailops/0700-0039.pdf



1.3 Certification Processes



1.3.1 New Participant Certification

Applicants will follow these steps to be eligible for certification:

- Applicants will obtain the AEMO Specification Pack and Information Pack containing process flows, interface definitions and details of system architecture from AEMO
- Applicants will obtain an FRC Gas Hub Participant User Guide and Registration Form from AEMO;
- Applicants connect their test gateway to the FRC <u>Test PreProduction</u> Hub. The FRC Hub Operator will make available a 'Sandpit' environment for preliminary testing prior to formal certification on the Certification Responder;
- Two stages of formal testing will be conducted by the applicant. These stages are described as Window 1 (messaging capability) and Window 2 (transaction capability). An applicant will need to have successfully completed Window 1 before commencing Window 2;
- The applicant should notify the FRC Hub Operator of the time at which the applicant plans to undertake certification; can commence certification at any time
- Once the applicant has completed <u>eitherboth</u> of the Windows (<u>where required</u>), they must first check the certification has passed via the Certification Checker, and should note the start and end time of the certification run so transactions/messages can be analysed later it must notify the FRC Hub Operator of the time at which it started and stopped sending transactions for certification ; and
- The FRC Hub Operator will then analyse the results of the process and will issue a report to the applicant and to AEMO.

1.3.1.1 Certification Window 1 – Messaging (ebXML)

1.3.1.3. Certification Notification

When these procedures have been completed, <u>the applicant will check the</u> <u>certification has passed by utilising the Certification Checker</u>. The applicant will <u>then</u> advise the FRC Hub Operator, which will review the results of the certification process. When an applicant has been successful, the FRC Hub Operator will produce a report advising the applicant and AEMO of the results of the certification process.

4. Contact Information

Below are the contact details for AEMO for matters in relation to:

- Certification of FRC Transactions routed via the FRC
- Certification of FRC Transactions routed via the GRMS FTP Gateway
- Certification of FRC Transactions routed via AEMO <u>GRMS</u> Low Volume Interface

For South Australia and Western Australia

AEMO Contact Gas Retail Market Operations Email: supporthub@aemo.com.au Ph: 1300 236 600

Hub Operator Contact AEMO FBS Administration Email: FBSAdminsupport.hub@aemo.com.au Ph: 1300 236 600