

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.				
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.	 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.
	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
40. If any line his a	
proposed effective date	subject to all necessary approval's AEMO is targeting to implement this before 31 March 2017.
for the proposed	To achieve this AEMO proposes the following timeline:
changed Procedures to take effect and	Issue PPC 2 December 2016
justification for that	Submission on PPC close 23 December 2016
timeline.	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		
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.

	С					FRC	НИВ 🔮 🕢
AUSTRALIAN ENERGY MARKET OF	PERATOR					FBS TN	About Help <u>Logout</u>
Navigate	[®] Certification Ch ▼ [®]						
EMO	certificationChecker						•
Partner							
▼ Custom		Responder: FBS		•			
Certification Checker	Certification Details						
Send AseXML		Receiver Name: FBSTE	ST				
Validate AseXML							
Certification		Sender name: [rb5					
Email Notification		Market: VICGA	S	-			
lonitoring	Cartification Results						
Integration	Certification Results						
▼ B2B							
Transactions	Transaction Name 1	ransaction ID User Status	Transaction Status N	larket Ack Transaction !	Status Ack User Status	Ack Receipt ID Pass	Reason Doc Timestamp
dministration				Chipty			
Integration	Check Results Export to	csv					
▼ B2B							
 Partner Administration 							
Partner Profiles							
times EST (LTC+10:00)							Powered by Software
Il times EST (UTC+10:00)							Powered by Software
Il times EST (UTC+10:00)							
							FRC HUB
							FRC HUB
If times EST (JTC+10:00)							FRC HUB 🚱 🕻
times EST (UTC + 10:00)	Partner Profiles O Certification	Transactions	iend AseXML 💿 Valid	ate AseXML 💿 Activity Log	User Preferences	○ Certification Ch ▼ ○	FRC HUB
times EST (UTC+10:00)	Partner Profiles O Certification	C Transactions C :	Send AseXML O Valid v	ate AseXML O Activity Log	O User Preferences	Certification Ch 🔻 🗘	Powered by Software
times EST (UTC+10:00)	Patter Pulles © Cetification Certification Details	Transactions Responder: [FBS	Send AseXML O Valid	ate AseXML O Activity Log	O User Preferences	⊘ Certification Ch ▼ ♥	FRC HUB
time EST (J/TC + 10:00)	Partner Publies © Cettification	Transactions Transactions Responder: [FBS Sender Name:] FBS	iend AseXML © Valid ¥	ate AseXML O Activity Log	0 User Preferences	Certification Ch v Q	Powered by Software
It times EST (J/TC+10::00)	Partner Profiles O Cettification Certification Details	Transactions Transactions Responder: FBS Sender Name: FBS Receiver Name: FBSTEST	iend AseXML © Valid V	ate AseXML O Activity Leg	© User Preferences	C Certification Ch v O	FRC HUB
It times EST (UTC + 10:00)	Pattner Polifies O Cetification	Transactions Transactions Responder: FBS Sender Name: FBS Receiver Name: FBSTES Harket: WOGAS	eend AseXML O Valid V V V	ate AsoXHL O Activity Log	0 User Preferences	○ Certification Ch ▼ 0	FRC HUB
It times EST (UTC + 10:00)	Partner Profiles Certification Certification Details	O Transactions O : Responder: [FBS Sender Name: [FBS Receiver Name: [FBSTEDT Harket: [WoodName Best Enterhalman	iend AseXML © Valid V V V V V	ate AsoUNL O Activity Log	0 User Preferences	Certification Ch V O	Powered by Software
ternes EST (J/TC + 10::00)	Partner Profiles O Cettification	Transactions Transactions Responder: FBS Sender Name: FBS Receiver Name: FBSTEST Harket: WICGAS Roke: Testaturuur Table Fore: Tab	iend AseXML © Valid	ate AacXML O Activity Leg	© User Preferences	Certification Ch V O	FRC HUB
terres EST (J/TC + 10::00)	Patter Polies O Cetification	Transactions Responder: FBS Sender Name: FBS Recherer Name: FBSTER Hardet: WOGAS Rok: Retain(User Date From:	Send AseXML O Valid V V V V V V V V V V V V V	ate AsoXML O Activity Log	0 User Preferences	○ Certification Ch ▼ Ô	FRC HUB
temes EST (J/TC + 19:00)	Partner Probles O Certification	O Transactions O Responder: [FBS Sender Name: [FBS Receiver Name: [FBSTEDT Harket: [WCGAS Roke: Retain(Uver Date For:] Date To:]	iend AseXML Image: Control of the second secon	ate AsoUNL O Activity Log	0 User Preferences	Certification Ch • O	Powered by Software
It times EST (UTC + 10::00)	Partner Profiles © Cettification Certification Detaik Certification Results	Transactions Transactions Responder: [FBS Sender Name: [FBS Receiver Name: [FBSTEST Harket: [VICGAS Role: [Relativityer Date From:] Date Tro:]	iend AseXML Image: Valid v v v v v v g Time: (00 : 00) i g Time: (00 : 00) i	ate AaeXML O Activity Log	0 User Preferences	Certification Ch • O	FRC HUB 😨 🔇
Il times EST (UTC+19:00)	Patter Polies O Cetification Certification Details Certification Results	Transactions Responder: FBS Sender Name: FBS Recuber Name: FBSTEAT Harket: MMCAS Roke: Relater/Uver Date From: Date From: Date Toc	Send AseXML O Valid v v v v s S Time: 00 : 00 :	ate AraXML O Addivity Log	0 User Preferences	○ Certification Ch ▼ 0	FRC HUB
It times EST (UTC + 19:00)	Patter Polies © Cetification Certification Details Certification Results Transaction Name* Transact	Transactions Transactions Responder: [FBS Sender Name: [FBS Roceiver Name: [FBSTEDT Harket: [WOOAS Roke: [Relativityer Date From:] Date To:] Date To:] kon ID* User Status* Trans	end AseXML () Valid v v v s Time: (00 : 00) : caction Status [×] Market	ete Arconti. O Activity Log Activity Log Activity Composition Status	User Preferences Ack User Status*	Certification Ch + O	RECHUB 20 C
It times EST (UTC+10::00)	Partner Publies © Cettification Certification Detaik Certification Results Transaction Name* Transact	Transactions Transactions Responder: [FBS Sender Name: [FBS Receiver Name: [FBSTEST Harket: [VICGAS Roke: [Relativ/User Date From:] Date From:] Mathematical States and the sender of the s	end AseXML Q Valid V V V V V V V V V V V V V V V V V V V	et Activity Log Activity Log Ac	© User Preferences	Certification Ch • • •	REC HUB 😧 🗘
Il times EST (UTC+19:00)	Partner Polites O Cetification Certification Details Certification Results Transaction Name* Transact Citeck Result Export to CSV	Transactions Responder: FBS Sender Name: FBS Receive Name: FBSTET Harket: (MCGAS Rok: RelaterUser Date From: Date From: Date Tro: WeerStatus* Trent	eerd AseXML © Valid v v v Time: 00 : 00 Time:	ate AseXML ① Activity Log et* Ack Transaction Status Engly	© User Preferences	Certification Ch > O	RECHUB () FBS TN Help Log FBS TN Help Log RESSO [®] Doc Timestamp [®]
Il times EST (UTC+19:00)	Patter: Polities © Certification Certification Details Certification Results Teansaction Name* Transact Teansaction Name* Transact	Transactions Transactions Responder: [FBS Sender Name: [FBS Receiver Name: [FBSTEST Harket: [MOGAS Roke: [Relatent/User Date From:] Date To:] son ID* User Status* Trans	end AseXML () Valid v v v g Time: (00 : 00) g Time: (00 : 00) saction Status [*] Market	et Activity Log Activity Log Activity Log Activity Log Engly	User Preferences Ack User Status*	Certification Ch + O	REC HUB 😧 🗶

- 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/message 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 HU | в 📳 (|

--

--
---|---|--
--|---|--|---------
--|
| |
 |
 | |
 |
 | | | | | ERS TN
 | L About | Help I I |
| |
 |
 | |
 |
 | | | | | 100 111
 | 1 10000 | 1 1000 1 2 |
| \$ | Certification Ch 🔻 🕲
 |
 | |
 |
 | | | | |
 | | |
| | certificationChecker
 |
 | |
 |
 | | | | |
 | | |
| p. |
 | Res
 | onder: FBS |
 |
 | 1 | | | |
 | | |
| fication Checker | Certification Details
 |
 | |
 |
 | | | | |
 | | |
| AseXML |
 | Receive
 | r Name: FBST | EST
 |
 | - | | | |
 | | |
| ication |
 | Sende
 | r Name: FBS |
 |
 | • | | | |
 | | |
| Notification |
 |
 | Market: WAG | AS
 |
 | • | | | |
 | | |
| | Cartification Results
 |
 | |
 |
 | | | | |
 | | |
| ion | Certification Results
 |
 | |
 |
 | | | | |
 | | |
| actions |
 | Transaction
 | m* | llear Statue [®]
 | Transaction
 | Market | Ack Transaction | Ack User | Ack Receipt ID | Page
 | Pearcon | Doc Timesta |
| ition | Transaction name
 | FBS+5a390cc0
 | 1e2c-460a-b5d4- | aseVML sent-
 | Status
 | Harket | Status | Status | 5c72e5d6.0bc9-4a3f.ba44 | 1433
 | Reason | 2015-01-19 |
| ion | NMIStandingDataUpdateNo
 | ae8bb04
 | 1000 000 1 | ack 1
 | Accept
 | WAGAS | Accept | aseXML ack:rec | 52719737bc3e | v
 | Pass | 18:47:06.277 |
| | CATSObjectionRequest
 | FBS-d142da29
de5f468
 | -3ca1-48d1-8e64- | aseXML sent:
ack 1
 | Accept
 | WAGAS | Accept | aseXML ack:rec | 6a50c0ab-3bfe-465b-82fd-
e0d9a480cf8f | ~
 | Pass | 2015-01-29
11:02:43.873 |
| er Administration | CATSObjectionWithdrawal
 | FBS-4028cf38-
9b7029c
 | :55b-4712-a033- | aseXML sent:
ack 1
 | Accept
 | WAGAS | Accept | aseXML ack:rec | b920eeac-dffd-4b87-89be-
76565b8e35af | 4
 | Pass | 2015-01-29 |
| undi Promea |
 |
 | |
 |
 | | 1 - 3 of 3 | | |
 | | |
| |
 |
 | |
 |
 | | | | |
 | | |
| EMO |
 |
 | |
 |
 | | | | |
 | FR | RC HUB |
| EMO |
 |
 | |
 |
 | | | | |
 | FR | RC HUB 🕞 |
| EMOO
HENDO HANDY OFFICIAL | O Certification O Transad
 | ions O Send Aut014.
Responder: 78
 | O Valdate As | eXML O Activity
 | ring O User R
 | eferences O | Certification Ch + 0 | | |
 | FR | RC HUB |
| EEMOO
Interveet forter
Partner Rolfee
Certification De | O Certification O Transad
 | ions O Send Ass03%.
Responder: 75
 | O Valdate Ap | eXXL O Activity
 | r Log O Liter A
 | eferences O | Certification On + 0 | | |
 | FR | RC HUB 🕞 |
| Patter Politer Orecker | 0 Ceditation 0 Trained
 | ions O Send Ass034.
Responder: 170
Sender Name: 170
Ractiver Name: 170
 | Validate Ac | exist. O Activity
 | rLog () Liter A
 | eferences O | Gertification Chur v O | | |
 | FR | RC HUB 🕞 |
| Patter Poller
Orecker | 0 Certification 0 Transact
 | ion 0 Send AudXL
Responder, FS
Sender Name: F
Receiver Name: F
Market: F
 | 0 Valdate Ao
1
8
57557
2045 | eXPL 0 Activity
V
V
V
 | riog O Liter A
 | eferences 0 | Grtification One × 0 | | |
 | FR | RC HUB 😨 |
| Padoar hote:
Decker
S.
Decker | O Certification O Transact
 | on 0 Send Aud34L
Responder, 199
Bender Name: 19
Bender Name: 19
Narket: 19
Roke: 19
Data Score: 10
 | 0 VetDate As
5
51557
2045
12870.487 | extil 0 Activity
 | rlog O Use A
 | eferences 0 | Grtification One × 0 | | |
 | FR | RC HUB 😨 |
| Decker | 0 Cellodon 0 haved
 | inn O Sint Jacobi.
Responder (1996)
Sender Hone, 199
Reseiver Hume, 199
Roke, 199
Date Foru,
Date Foru,
Date Foru,
 | U Valdate Ar
S
STEST
CGAS
TER FLAR
TER FLAR | Actively Actively V V V V V V V V V 0 000 0
 | ilog O liter A
 | eferences O | Gertification One: + 0 | | |
 | FR | RC HUB 😨 |
| Certification Co | 0 Geffadim 0 Transd
 | on O Sect Jacobs
Responder: (20
Sector Name 7:
Restrict Name 7:
Names 7:
Names 7:
Date Tran.
Date Tran.
 | Vatibale As Vatibale As STST STST STST STATURE TOR F The 0 The 0 |
 | rlog O User A
 | eferences O | Gertification Qu., + 0 | | | | | | | | | | | |
 | FR | RC HUB |
| Sector Action of Contraction for Contraction f | 0 Schudon 0 hread | on O Sand Astrik.
Begodes / E
Sector Bane /
Reader Mane /
Ratest
Bate Franc.
Date Fran.
Date Tra. | Validate As Transaction 5 Transaction 5 | a XIL 0 Activity
V
V
V
0 00 0
0 00 0
0 000 0
0 00000000 | iog O Uver M | eferences 0 | Certification Ch + 0 | Ack User Status | A3 Becgt D | Pasa [®] Reason | FR | C HUB |
| Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector
Cector | 0 Certration 0 Newson
Harris
Harris
Harris Manual Harris III
Manual Harris Harris Harris
Manual Harris Harris Harris | oran O Sand Jacobic
Beng solen (*)
Sandor Rome, F
Bastario Name, F
Bastario Name, F
Bastario Name, F
Bastario Name, F
Bastario Name, F
Bastario Name, S
Bastario Name, S
Bastari | Valdate As S S STERT S STERT S S TRE Tested Tested Tested | | ricg 0 User A | rferense 0
■
Martin Ack Transact
Accept
Accept | Certification $\Omega_{\rm tot} \neq 0$ | Act Vice Other
Penj
Actority per | #15 Receiption #15 Receiption #15 Transfer June 4-00 and 4-0 | Persi Reson
↓ Pass
↓ Pass | FR | RC HUB |
| Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Con | 0 Setflotion 0 Transfer news Franketonic Setflotion Setflotion ms ² Franketonic Setflotion Setflotion msain/msb Head Setflotion Setflotion
 | inn 0 Social Astronometry
Regionalized Fill
Sector Names (
Research Names
 | 0 Valdek As 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | xN0. 0 Activity V
 | 1.00 0 Une A | eferros 0
45° Ack Transaction
Acopt 5
5 Acopt 5
5 Acopt 5 | Certification $\Omega_{\rm bs} = 0$ | Ack Vers Rahm
Pang
2. Anomalyper 4.
44070-31419
 | As Recept (0)************************************ | Pass
Pass
Pass
Pass
Pass
Pass | FR | KC HUB
 |
| Section 2014 | 0 Gestination 0 Transit #123 ************************************
 | ore 0 Sand AutON Register 7% School Name 7% Register 7% Bala France 7% Data France 7%
 | 0 Yukitah Ja 9 | 48% 0 Addrefy V - - V -
 | ting 0 law A | vinences 0
the Ack formation
a congli
a congli
a congli
a congli
a congli
 | Gerbitation (De. + 0 | 2012/14/2014/00
2019
4. Anonoldyper
4. Anonoldyper
4. 4400% all re
4. 440% all re | Ack Streep 10 ¹ | Pass
✓ Pass
✓ Pass
✓ Pass
✓ Pass
✓ Pass
✓ Pass
✓ Pass
 | FR | CC HUB | | | | | | | | | | | |
| Centre Index
Contex
Contex
Contex
Contex
Contex
Centre Index
Centre Index
Cent | 0 Certification 0 Nonacci 6431 Statute 1.00 Nonacci Nonacci 6431 Material Statute 1.00 Nonacci Nonacci 6432 Material Statute 1.00 Nonacci Nonacci 6433 Nonacci Nonacci Nonacci Nonacci 6434 Nonacci Nonacci Nonacci Nonacci Nonacci 6444 Nonacci Nonacci <td>on O Seed Assifts</td> <td>Version in Version in Version Version</td> <td>40%. 0 Adridy
▼
▼
▼
0 00 :
0 00 :
0 00 :
0 00 :
0 00 :</td> <td>1449 0 User M
1446 4
1456 4</td> <td>Ack Fransacci Accept Accept Accept Accept Accept Accept Accept</td> <td>Catification $Q_{n,v} \neq 0$</td> <td>An School Steven
Pergy
Actional prot
decould prot
decould</td> <td>111 2000 11 20 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 40 41% 150 20 41% 150 20 41% 150 20 41% 150 20 41% 150 41%</td> <td>Pess* Reserve Pass Pass V Pass V Pass V Pass V Pass V Pass</td> <td>FR</td> <td>KC HUB</td> | on O Seed Assifts | Version in Version in Version Version | 40%. 0 Adridy
▼
▼
▼
0 00 :
0 00 :
0 00 :
0 00 :
0 00 : | 1449 0 User M
1446 4
1456 4 | Ack Fransacci Accept Accept Accept Accept Accept Accept Accept | Catification $Q_{n,v} \neq 0$ | An School Steven
Pergy
Actional prot
decould | 111 2000 11 20 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 00 40 41% 150 20 40 41% 150 20 41% 150 20 41% 150 20 41% 150 20 41% 150 41% | Pess* Reserve Pass Pass V Pass V Pass V Pass V Pass V Pass | FR | KC HUB |
| Constant
Constant
Statistics
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
Internet
I | 0 Confliction 0 Transmit News Transmit Transmit Transmit News News Transmit Transmit News News News Transmit News < | ann 0 and heathir
Begennets 12
Seeder Neues 1
Reality Neues 1 | Vancada da Social S | wether | 1 log 0 une A
Auto
0 con
0 con | Ack Transact Accord | Gerlifectus (De. = 0 | Act: Black Distant
Paring
4. Active and Active and Active
4. 400% active
4. 400% active
4. 400% active
4. 400% active
4. 400% active
4. 400% active | Ask Recept D ¹
FIETET TUDIEL (114-00-04154)
FIETET TUDIEL (114-00-04154)
FIETET TUDIEL (114-00-04154)
FIETET (104-04154)
FIETET (114-04-04154)
FIETET (114-04-04154)
FIETET (114-04-04154)
FIETET (114-04154)
FIETET (114-041 | P351 243200 ✓ Pass | FR | CC HUB |
| An and a set of the se | 0 Settladan 0 Navadi statu Termination 1 Navadi statu Termination 1 Navadi statu Termination 1 Navadi status Termination 1 Navadi Navadi status Termination 1 Navadi | inn inn innn inn inn innn innn innn inn | Variada As V | ■ 404 0 Addidy | 1 lang 0 lang h | Ack Transact Ack Transact Accept | Certification Q _{inc} × 0 | Arts State States
Perg
A showling per C
4. Arts States
4. Arts
4. Arts | A45 Receipt D ²⁰
FIGTED 7 10004 a 710-007-004-005-00
FIGTED 7 00004 a 710-007-004-005
FIGTED 7 000-005
FIGTED 7 | Pass Pass Image: Pass Pass | FR | |
| Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Constant
Consta | O Section O Name NAME Name Nam Name Nam | Imm O Seed Address Regulation Pro-
tion Seeder Names Seeder Names Reserve Names Reserve Names Seeder Names Seeder Names Reserve Names Reserve Names Reserve Names Reserve Names Reserve Names Reserve Names Reserve Names | Image: Second | ₩0%. 0 Adody
V
V
V
0
0
0
0
0
0
0
0
0
0
0
0
0 | 1 log 0 low A | Accept Accept | Gerbfactus (h., v 0 | Ark later Statum Fanj - Annovalagenet | A & Recept 20 ¹
This is a plant of the control and off
This is a plant of the control and off
This is a plant of the control of the control of the
STR Control and Control and Control and Control
STR Control and Control and Control and Control and Control
STR Control and Control and Control and Control and Control
STR Control and Control and Control and Control and Control and Control
STR Control and Control an | Pasts Reason Image: Construction of the second secon | FR | CC HUB |
| Contraction of the second | 0 Scielladon 0 Novad 6.0 Scielladon Novad Novad 6.0 Novad Novad Novad | Image: Control of the second | Image: Control of the second | 484. 0 Adds) V V V< | 1 log 0 low h | the result of the result | Certification On + 0 | Acts States Richard
Parag
A disological para L
40000 at 2010
40000 at 2010
400000 at 201000
400000
400000
400000
400000
400000
400000
400000
400000
400000
400000
4000000 | A 1 Recept D ¹
FIGT 7 10044 - 014-44-3454
FIGT 7 10044 - 014-44-3454
FIGT 7 10044 - 014-44-3454
FIGT 7 042-14
FIGT 7 042-14
FIGT 7 042-14
FIGT 7 044-14
FIGT 7 044 | Pass Resource V Pass | FR | |
| Control form C | 0 Certificity 0 Transf 1643 | Imm O Seed Jest? Regioner: Fill Seeder Neme: Fill Resident Neme: Fill Resident Neme: Fill Det Frem: Fille Det Frem: | O Vanish An 3 5 5 5 | 444% 0 Addy
V
V
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0 | 1 log 0 love h
1 log 0 love h
1 lo | Ack Transet Ack Transet Ack Transet Ack Transet Acqui Acqu | GetBeates $\Omega_{n_1} \neq 0$ | Ack User Others
To 20
4000-0000 period
4000-0000 period
4000-000000000000000000000000000000000 | | Pess Research V Pess | FR | CC HUB |
| ELECTOR
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Contact
Con | D Scientiscion D Research Attain Terrescenterica Scientiscion Scientiscion Mail Personalitati III Scientiscion Scientiscion Mail Personalitati IIII Scientiscion Scientiscion Mail Novina Control Scientiscion Scientiscion Scientiscion Main Novina Control Scientiscion Scieniscion Scientiscion <td< td=""><td>ann Sand Jashibi, Register Fill Register Fill Register Fill Register Fill Register Fill Back Fill</td><td>0 Vestick A 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -</td><td>484. 0 Adot;
▼
▼
▼
0
0
0
0
0
0
0
0
0
0
0
0
0</td><td>1 kay 0 kay 1 kay 0 kay 1 kay 0 kay 1 kay</td><td></td><td>Certification On + 0</td><td>Act bis or ficial and
Parg
4. double and the second second
execution of the second second second second
execution of the second second second second
execution of the second second second second second
execution of the second second second second second
execution of the second second second second second second
execution of the second second second second second second
execution second second second second second second second second
execution second second second second second second second second
execution second second second second second second second second second
execution second second</td><td>A 19 Receipt ()
FILTET 7 () 2014 - 1¹¹ - 4¹¹ - 4</td><td>D111 D22201 Image: Pass 1 Pass 1 Image: Pass 1 Pas</td><td>FR</td><td>ICHUB</td></td<> | ann Sand Jashibi, Register Fill Register Fill Register Fill Register Fill Register Fill Back Fill | 0 Vestick A 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - | 484. 0 Adot;
▼
▼
▼
0
0
0
0
0
0
0
0
0
0
0
0
0 | 1 kay 0 kay 1 kay 0 kay 1 kay 0 kay 1 kay | | Certification On + 0 | Act bis or ficial and
Parg
4. double and the second second
execution of the second second second second
execution of the second second second second
execution of the second second second second second
execution of the second second second second second
execution of the second second second second second second
execution of the second second second second second second
execution second second second second second second second second
execution second second second second second second second second
execution second second second second second second second second second
execution second | A 19 Receipt ()
FILTET 7 () 2014 - 1 ¹¹ - 4 | D111 D22201 Image: Pass 1 Pass 1 Image: Pass 1 Pas | FR | ICHUB |
| Control to the second sec | 0 Certificity 0 Transmitting 10.0 Certificity 0 Transmitting 10.0 Certificity 0 Transmitting 10.0 Certificity 0 Transmitting 10.0 Certificity Transmitting Transmitting 10.0 Certificity Transmitting Transmitting 10.0 Certificity Transmitting Transmitting 10.0 Certificity Transmitting Transmitting 10.0 Transmitting Transmitting Transmitting | O Seed JackW. Regioner. Fill Seeder Name. Fill Rezinter Name. Fill Rezinter Name. Fill Det Fram. Fill | O Variable As 3 | 4 Adrig 10 A | 149 0 Use A | According to the second s | Certification On + 0 | Analysis Analysis | | Pest Dasson V Fass | FR | KC HUB |
| ELECTOR
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Context
Con | Display Description Display Attain Texasolitic Texasolitic Attain | O Sand Justicity Register PC Register Register | 0 Vestick A 3 | 484. 0 Addr | Log O Log # Mark All All Mark All | Actor protects Actor pr | Certification On + 0 | 40% bits of Disting
Parg
4. dis 20% and 20% and 20%
4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and 4. disting and 4. disting and
4. disting and 4. disting and | A 15 Percept D ¹
FILTE 7 10000 - 0114-0114-0114-011
FILTE 7 10000 - 0114-0114-0114-0114
-011000 - 0114-0114-0114-0114-0114
-011000 - 0114-0114-0114-0114-0114
-011000 - 0114-0114-0114-0114-0114
-011000 - 0114-0114-0114-0114-0114
-011000 - 0114-0114-0114-0114-0114-0114
-011000 - 0114-0114-0114-0114-0114-0114- | Pass Descent ✓ Pass | FR | ICHUB |
| Andream Andrea | 0 Centration 0 Name Address | O Seed AssN: Barginstein 200 Seeder Name: 200 Barginstein | Image: Control of the second | x0% 0 Addity V V V V V V 0 00 1 0 00 1 0 00 1 0 00 1 | 1459 0 Use M | Comp Comp | Cartification Que + 0 | An intersection
Ange
Ange
and intersection
and intersecti | 1111110000000000000000000000000000000 | Partie Database ✓ 7 and | FR | CC HUB |
| Control of the second sec | 0 Control (Control (Contro) (Contro) (Control (Contro) (Control (Contro) (Control (Contro | Image and the second | 0 Vesticate As s | 484 0 Address V V V | Log O Log /r 1 1 1 1 1 1 1 1 1 1< | | Certification One. + 0 | Act biss that we Parg 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Ark Streeps ID ¹ Table Torong Control of the Article Ark Streeps ID ¹ Table Torong Control of the Ark Streeps ID ¹ Table Torong Contre D ¹ Table Torong C | Data Data V Tat V | FR | ад «Ванцба е цинка» |
| Contextual of the second secon | 0 Centralizio 0 Neural 6474 < | On Seed Josh's Barrier Venne, F Barrier Venne, F Barrier Venne, F Barrier | Image: control of the second | x8% 0 Adds) V V V </td <td>Ling O Law M 400 400 400</td> <td>Company Company C</td> <td>Cartification Gaus + 0</td> <td>An State David
Pariji
Alconcide grant
d. Acconcide grant
d. Acconcide</td> <td>#15 2000-12.01 #50 200 (00046 or 100-0000 - 0000-00000 - 0000-0000000000</td> <td></td> <td>FR</td> <td>In Alexandre and a second seco</td> | Ling O Law M 400 400 400 | Company C | Cartification Gaus + 0 | An State David
Pariji
Alconcide grant
d. Acconcide | #15 2000-12.01 #50 200 (00046 or 100-0000 - 0000-00000 - 0000-0000000000 | | FR | In Alexandre and a second seco |
| Section 2014 | 0 Contraction 0 Provide Attas Att | O Sand Autority. Required. File Required. File Required. File Required. File Balance File </td <td>Version An Version An VersionAn VersionAn VersionAn VersionAn Versi</td> <td>area 0 Addres V V V</td> <td>Log 0 Log A No. 40 0 Log A No. 40 0 No. 40 No. 40 0 No. 40<</td> <td>Act 7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -</td> <td>Gertification (h., v 0
and Bildian[*]</td> <td>Ack later Statum Parg Antonial provid 4.400-bit provid Antonial provid</td> <td>A & Recept D¹
This is a region of the second all and
the second all and the second all and the
the second all and the
the second all and the secon</td> <td></td> <td></td> <td>IC HUB</td> | Version An VersionAn VersionAn VersionAn VersionAn Versi | area 0 Addres V V V | Log 0 Log A No. 40 0 Log A No. 40 0 No. 40 No. 40 0 No. 40< | Act 7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - | Gertification (h., v 0
and Bildian [*] | Ack later Statum Parg Antonial provid 4.400-bit provid Antonial provid | A & Recept D ¹
This is a region of the second all and
the second all and the second all and the
the second all and the
the second all and the secon | | | IC HUB |
| Conclete | 0 Centralizio 0 Reveal catal | One Seed Justicity Bacador Rame Fill | Image: constraint of the second sec | a05. 0 Addaty V V V V V V 0 0 2 | Vag 0 User IV Main All All Main All | Image: second | Gertification Guo ¥ 0
Los Dologi ⁴ | And Science 2014 - 2014 - 2014 Ange, Ange, and ange ange ange ange ange ange ange ange | Arts Teccos D." Test Teccos D. Test Test Test Test Test Test Test Test | | | ey diangle ayorder 2 g |
| Contraction Contracti | 0 Contractor 0 Parent Attas | One Sand Autolity Regionality Regionality Regionality <t< td=""><td>D Variation (a) 3 </td><td>and 0 kalong
V
V
V
V
V
V
V
V
V
V
V
V
V</td><td>10 Lee A 10 Lee A <td>Act Yould (Act Yould</td><td>Gertification (h₁, ~ 0
and Bildum[*]</td><td>Ack Sets Statum Fing Anomalograph Advantulograph Advantulograph</td><td>A & Storp 10¹
The second se</td><td></td><td></td><td>ny diangla ayandaki ji</td></td></t<> | D Variation (a) 3 | and 0 kalong
V
V
V
V
V
V
V
V
V
V
V
V
V | 10 Lee A 10 Lee A <td>Act Yould (Act Yould</td> <td>Gertification (h₁, ~ 0
and Bildum[*]</td> <td>Ack Sets Statum Fing Anomalograph Advantulograph Advantulograph</td> <td>A & Storp 10¹
The second se</td> <td></td> <td></td> <td>ny diangla ayandaki ji</td> | Act Yould (Act Yould | Gertification (h ₁ , ~ 0
and Bildum [*] | Ack Sets Statum Fing Anomalograph Advantulograph | A & Storp 10 ¹
The second se | | | ny diangla ayandaki ji |
| Control Control Contr | 0 Centradium 0 Prevant ctr2 < | Image Image Sector Standard Name Fill Standar | Image: second | active 0 Actively V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V Actively V V | Ling D Line In All All All | Artic crastel Artic c | Certification Q _{ne} = 0 | 413 1214 5 20 1400
Pergy
Academic Agence
4 4000-000 genet
4 4000-0000 genet
4 4000-000 genet
4 4000-0000 genet
4 4000-000 genet
4 4000-0000 genet
4 4000-0000-000000000000000000000000000 | A13 Monty 101 FILTET INCLUSION LITH AND LIT | | | AC HUB |
| Control of the second sec | 0 Confraction 0 Partnet Attas Att | O Sand Autolit. Regionality. Regionality. | D Variation Line 3 | 40% 0 Addrefs V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V Addrefs V V Addrefs V V V V V V V V V V V V V V V V | 10 Lee A 10 Lee A <td>Act Yould (Act Yould</td> <td>Gerbitation (h., v 0)</td> <td>Ark Set Old Hum Arag Anonadagrami Anonadagrami</td> <td>A & Storp 10¹
The Top 10 and 10 an</td> <td></td> <td></td> <td>ny diangla ayandaki ji</td> | Act Yould (Act Yould | Gerbitation (h., v 0) | Ark Set Old Hum Arag Anonadagrami | A & Storp 10 ¹
The Top 10 and 10 an | | | ny diangla ayandaki ji |

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
k Navigate	Transactions V		
▼ AEMO			TN Server: HUB
▼ Partner	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	
Transactions	<select a="" field=""></select>	00	
✓ Administration	Data Daras Al		
▼ Integration			
▼ B2B	Start Date: Time: 00 : 00 EST (24-hour)		
▼ Partner Administration	End Date: 📰 Time: 23 : 59		
Partner Profiles			
	Show SOL.		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:

Transactions										▼ ⊟ ⊡
Reprocess	Resubmit									
							E	kport Table		
Received	Document Type	Sender	Receiver ⁺	Processing Status	User Status ⁺	Document ID [*]	Conversation ID [™]	Related Documents	Detail	Action
10/02/2015 15:49:32	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP 25f58b8e-0864-4a59-85f6-43404ef4751c	VENCORP ENVESTRA VENCORP 25f58b8e-0864- 4a59-85f6-43404ef4751c	ð	P	\odot
10/02/2015 15:48:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP 2f5d9ab3-f42d-4ba9-a3ae-3e11c4e5911d	VENCORP ENVESTRA VENCORP 2f5d9ab3-f42d- 4ba9-a3ae-3e11c4e5911d	2	P	\odot
10/02/2015 15:47:34	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP eb196ff7-0a8f-40b6-b0a7-3278128ca0ba	VENCORP ENVESTRA VENCORP eb 196ff7-0a8f- 40b6-b0a7-3278128ca0ba	2	P	\odot
<u>10/02/2015</u> <u>15:46:33</u>	ebXML Payload	RELAY (RELAY)	ENVESTRA (VIC)	DONE	SendMessage:err	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42- 4c74-833c-b8cdd8cdde31	ð	P	\bigcirc
10/02/2015 15:46:33	aseXML Transaction	VENCorp	ENVESTRA (VIC)	DONE	aseXML Transaction	VENCORP-MSG-d26817357f4e49f8a164c621		2	P	\odot
10/02/2015 15:46:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	MessageRouting:proc	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42- 4c74-833c-b8cdd8cdde31	2	P	\bigcirc
<u>10/02/2015</u> <u>15:46:33</u>	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:sent	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42- 4c74-833c-b8cdd8cdde31	ð	P	\bigcirc



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 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	tails						▼ 🗉 🖸
Date	Received:	11/02/2015 12:50:00 Se	ender: FBS - (Certify Responder)	Receiver: RELAY - (Hub)				Send link to this document
Ac	tivity Log	Attributes Tasks	Content Comments					
Dele	e							
								Export Table
м,	Туре⊤	Timestamp 🔻	Brief Message [™]		Class [™]	User Name [*]	Partner ID	Details
록,	Туре [™]	Timestamp ▼ <u>11/02/2015 12:50:00</u>	Brief Message [*] Processing complete		Class [*] General	User Name [™] relay	Partner ID	Details P
	Type [™] ↓ ↓	Timestamp ▼ <u>11/02/2015 12:50:00</u> <u>11/02/2015 12:50:00</u>	Brief Message [*] Processing complete Status changed.		Class General General	User Name [™] relay relay	Partner ID	Details P P
	Туре [*] () () ()	Timestamp ▼ <u>11/02/2015</u> 12:50:00 <u>11/02/2015</u> 12:50:00 <u>11/02/2015</u> 12:50:00	Brief Message [*] Processing complete Status changed. Status changed.		Class [*] General General General	User Name relay relay relay	Partner ID	Details P P P
	Type [*]	Timestamp ▼ <u>11/02/2015 12:50:00</u> <u>11/02/2015 12:50:00</u> <u>11/02/2015 12:50:00</u> <u>11/02/2015 12:50:00</u>	Brief Message Processing complete Status changed. Status changed. Routing rule ebXML Sen	d Message selected	Class" General General General Processing	User Name [*] relay relay relay relay	Partner ID	Details P P P P
	Туре [*]	Timestamp 11/02/2015 12:50:00 11/02/2015 12:50:00 11/02/2015 12:50:00 11/02/2015 12:50:00 11/02/2015 12:50:00	Brief Message * Processing complete Status changed. Status changed. Routing rule ebXML Sen Document persisted.	d Message selected	Class* General General General Processing General	User Name relay relay relay relay relay	Partner ID FBS - (Certify Responder)	Details P P P P P

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				▼ ⊟ 8
Date Received: 11/02/2015 11:17:27 Sender: RELAY - (Hub) Receiver: FBS	S - (Certify Responder)			Send link to this document
Activity Log Attributes Tasks Content Comments				
Save to Disk				
				Export Table
Name [*] Size	e In Bytes" Type"	Storage Type [*]	Storage Reference [*]	DETAILS
ebxml 7559	9 multipart/related			P
Header 179	text/plain			P
Envelope 5398	18 text/xml; charset="UTF-8"			P
<asexml> 1649</asexml>	19 application/xml			۶ -

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.

downl 7559 multipart/related Header 179 text/bin Envelope 598 text/min/draste1-UTF-8"		P ^
Header 179 text/plain Envelope 5398 text/vml; charset="UTF-8"		Ø
Envelope 5398 text/xml; charset="UTF-8"		
		8
<asexml> 1649 application/xml</asexml>		۴ 🗸
Edit for ResubmL		
Content-Jength/7800 SORAPACION:"MEMDU" Content-Type:multipart/related; type="text/xml"; boundary="=_Part_13078_1595160176.1423617444200"; charset="UTF-8"; start=" =_Part_13078_1595160176.1423617444200 Content-Type: text/xml; charset="UTF-8" Content-Type: text/xml; charset="UTF	' <soappart>"</soappart>	ſ
<pre><?xml version="1.0" encoding="UTF-8"?><soap-env:envelope <="" th="" xmlns:ds="h Previous</pre></td><th>http://www.w3.org/2000/09/xmldsig#" xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/"><th>Nex</th></soap-env:envelope></pre>	Nex	





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