Johannesburg Stock Exchange

Post-trade system

JSE Guidance Note
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1.2 Document Information

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1.3 Revision History

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14 Mar 2017	1.00	All	Initial Draft
21 December 2018	2.00	Section 4.3 Information Subscription Conformance. Section 4.4 Reference Data Maintenance. Section 4.5 Risk Parameter Maintenance Section 4.6 Trade Management. Section 4.9 Commission Management.	 Updated information subscriptions scenarios Updated Reference Data Maintenance scenarios. Added additional scenarios for Trade cancellation and Commission Management.

1.4 References

Volume PT01 - Post-trade EMAPI Common

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2 OVERVIEW

The purpose of this document is to provide clients with all the essential and detailed information needed to get the most out of the JSE Conformance Test Service introduced as part of the Post-trade solution.

The JSE Conformance Test Service allows clients to prove the interface between their systems and the JSE's Post-trade system. The tests cover a range of functional areas and ultimately prove client systems can interact and behave as specified with the core architecture. Some of the events tested are frequently experienced during the business day, while others are less frequently experienced.

The following documentation should be read in conjunction to this volume.

- Volume PT00 Post-trade Services Overview
- Volume PT01 Post-trade EMAPI Common
- Volume PT02 Post-trade EMAPI Clearing
- Volume PT03 Post-trade Margining Methodology Specification (JSPAN)

3 SERVICE OVERVIEW

Clients are required to conform all software applications that they wish to connect to the production environment. The self-conformance policy has been introduced in order to facilitate the conformance process.

All software applications that will directly connect to the new JSE Post-trade system must be conformance tested.

The diagram below provides an overview of the Post-trade (Deal Management and Clearing) environment.



3.1 Conformance Test Environment

Conformance testing will be conducted in the Customer Testing Service (CTS) environment. Prior to the commencement of the conformance test service, the JSE completes a rigorous readiness assessment on its central systems and networks to ensure that customer testing is conducted in a stable environment. Clients are encouraged to complete a similar self-assessment so that they can optimise their allocated test sessions, and do not disrupt testing for other clients. The JSE will verify that a client is ready for the conformance test service during the technical readiness test to CTS, which is mandatory for all participating clients.

3.2 Mandatory Testing for Post-trade Functions Interfaces

Clients must test against each of the Functions they wish to access in production. For further detail on functions for Trading Members, Clearing Members & Info subscribers please refer to the below document:

ITaC Client-facing Functions and Interfaces on the ITaC web page (<u>Integrated Trading and Clearing</u>
 (<u>ITAC</u>)) under the "Post-trade Documentation" section.

Conformance testing of all messages related to the functions that a Client solution will cater for are mandatory, with the following exceptions:

- Deal & Position Management Function: QueryTradesReg message
- Risk Management Function: GetRiskArrayReg message

Clients may request exemption from messages they feel are not relevant to their offering, however this must be formally agreed to by the JSE and noted on their Conformance Test Report (for more detail please refer to section 3.7 of this document).

3.3 Reference Data for Conformance tests

For conformance, clients must use the Reference Data FTP flat-file as provided for the CTS environment.

For the CTS environment, the Reference Data FTP flat-files will be available for download via the JSE Information Delivery Portal (IDP). Clients must test against the JSE IDP service prior to go live.

Refer to the below documents for more information on the ITaC webpage for more information on the:

- Equity Derivatives Non-Live Data Products Specifications
- Currency Derivatives Non-Live Data Products Specifications
- Equity End of Day Data Service User Manual
- 09D Reference Data Management

3.4 High Volume Testing

The JSE is investigating the possibility of offering the following to clients:

 The provision of a High Volume Information service/test slot window to facilitate the testing of a client's applications to cope with a large increase in the volume and output rate at which market data is published.

For Post-trade this would refer to the pricing updates that will be received Intra-day and EOD, as part of these High Volume Tests.

3.5 Conformance Test Analysts (CTAs)

The JSE will assign a Customer Test Analyst (CTA) to assist clients with specific parts of their conformance tests and to produce the test reports at the end of each test.

Clients will be able to perform the majority of their testing independently and only contact the CTA when they are satisfied with their test run results and require CTA involvement to perform either a support function and/or run the end of test report.

CTAs will be able to perform the following support functions:

- 1. Collateral Management
- 2. CTA will run the end of Conformance test reports

3.6 Conformance Test Process

The conformance test process will be as follows:

- Clients must complete and submit the Conformance Test Report prior to conformance. This report
 outlines the functions supported by the software application being tested and will confirm the scope
 of the conformance test required.
- 2. Once the Conformance Test Report has been agreed with the JSE, clients can book a conformance slot
- 3. Clients must book a conformance slot with the JSE Client Services Centre team.
- 4. Conformance test slots will be available weekly, on Tuesdays, Wednesdays and Thursdays that are business days for the JSE. I.e. should a public holiday occur on either of these days, conformance slots will not be available.
- 5. A booking is required to ensure a CTA is assigned to the conformance test. Clients must perform the self-conformance tests independently and only contact the CTA when they are satisfied with their test run results and require CTA involvement to perform either a support function and/or run the end of test report.
- 6. Clients cannot book more than one conformance slot per week.
- 7. Clients must complete all self-conformance tests within one JSE business day.
- 8. The conformance tests that require CTA support must be performed within JSE business hours, i.e. 07h00 19h00 SAST. In the event where these cannot be conducted within the same business day, the CTA will perform these with the client on the business day following the booked test slot.
- Conformance test results will only be made available 24-48 hours after successful processing of the end of test report.
- 10. Clients who fail a conformance test will need to redo the full conformance test.
- 11. Clients must remain connected / logged in to the service throughout the conformance tests and should only disconnect if instructed to do so as part of the test. Any deviations from the test activities will result in a conformance failure.

3.7 Conformance Test Report

The conformance test report is an electronic document that can be completed by the client and returned to the JSE prior to Conformance. The client must:

- 1. Prior to conformance, complete and submit the Conformance Test Report to the JSE confirming the scope of functionality of the software application being tested.
- 2. The software application functionality must be agreed with the JSE.
- 3. The client can then update the agreed Conformance Test Report with the self-conformance test results and return this to the JSE as part of their conformance test.

Please refer to Customer Test Documentation Volume 202 – Post-trade system Conformance Test Report for further details.

3.8 Conformance Policy

It is mandatory to conform all software applications that clients wish to connect to the production environment. Any changes made to conformed software will result in a mandatory conformance test of the changed software.

In addition, any release of new functionality by the JSE could result in mandatory conformance, however not all releases will require conformance. The JSE will confirm per release if conformance is required.

4 CONFORMANCE TEST SCENARIOS

Detailed below are tests that a client must complete successfully to pass a conformance test.

Steps within each given scenario will apply to all type of participants and their solutions interfacing to the Post-trade system.

Execute each step as documented and record the results of the execution in the Conformance Test Report. Clients are responsible for including all relevant accurate information per execution step in the test report. Inaccurate information will result in a failed conformance test.

A unique ClientTXRef needs to be setup for all messages, which allows each request to be linked to its corresponding response. Please refer to PT01 - Post-trade EMAPI Common, section 4.1.1 Setting a unique ClientTxRef.

If the result of an execution step does not match the expected result, document the actual result attained in the Conformance Test Report and provide all relevant information to uniquely identify the execution step. E.g. Trading member ID, Trading User ID, Interface User ID, Trader Group, Trader, Instrument ID etc.

4.1 Do not disconnect or logoff between each step of the execution unless instructed to do so in the execution test. Failure to comply with this requirement will result in a failed conformance test. High Level Conformance Test

	High Level Breakdow	yn
Code	Conformance	Comments
ADM	Admin Functions	
ADM1	Password Maintenance	
ADM2	Logon & Logout	
IS&RS	Information Subscription & Replay Requests	
IS1	Information Subscription Requests	 Public Global Reference Data Flow Account Event Flow Risk Event Flow Give Up Event Flow Settlement Event Flow Market Data Event Flow
IS2	Manage Information Subscriptions	
RS3	Replay Service – Replay Requests	
MM1	Reference Data Maintenance	
MM1	Member Maintained – Reference Data	
RP1	Risk Parameter Maintenance	
RP1	Member Maintained – Risk Parameters	
TM1	Trading Management	
TM1	Trade Management	
PT1	Post-trade Conformance	
PT2	Deal & Position Management	
PT3	Commission Management	
PT4	Collateral Management	
PT5	Clearing Member Balancing	
PT6	Settlement Management	
EH1	Error Handling	
EH1	Error Handling	

4.2 Admin Conformance

4.2.1 ADM2 001 Admin Functions – Password Maintenance

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
ADM1 001	Post-trade Gateway (RTC) Connect/Logon	Y	Self-Conformance Test
Description:			
Establish a connection, Logon to the "RTC Post-trade Gateway" and change your password.			

Comment:

Note: that it is not required to Logon to RTC in order to change the password.

Activity Steps

#	Test Step	Expected Result
1.	Issue a ChangePasswordReq request	Receive a successful CdResponse
	message.	message

4.2.2 **ADM1 001 Admin – Logon**

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
ADM1 001	Post-trade Gateway (RTC) Connect/Logon	Y	Self-Conformance Test

Description:

Establish a connection, Logon to the "RTC Post-trade Gateway".

Comment:

The TaxLogonReq message must be sent immediately after establishing the TCP/IP connection.

Activity Steps

#	Test Step	Expected Result
1.	Establish a connection and issue a TaxLogonReq request message.	Receive a successful TaxLogonRsp message

4.2.3 **ADM1 002 Admin – Logout**

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
ADM1 002	Post-trade Gateway (RTC) Connect/Logon	Y	Self-Conformance Test

Description:

Logout from the "RTC Post-trade Gateway".

Comment:

Logout from RTC.

#	Test Step	Expected Result
1.	Issue a TaxLogoutReq message, which should terminate the session.	Receive a successful SimpleRsp message

4.3 Information Subscription Conformance

4.3.1 IS1 001 - IS1 006 Information Subscriptions - Request ONLY Current Values

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
IS1 001 IS1 002 IS1 003 IS1 004 IS1 005 IS1 006	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Stay logged in and send a TaxSnapshotSubscribeReq message, to request a current snapshot (requestType =1) for the Event Flow

Comment:

The Request Type is **ONLY** for $\underline{\text{current}}$ values, no future updates should be received for the requested events.

For some event flows, there may not be data until certain processing has occurred in RTC.

#	Test Step	Expected Result
1.	Establish a connection	Successful Logon
2.	Send a TaxSnapshotSubscribeReq message, for a snapshot of the current Event Flow	Receive a successful TaxSnapshotSubscribeRsp message
be		THEN TaxStartSnapshot message will be received, followed by the data available on the Event Flow.
		When all required reference data has been sent by RTC, a TaxEndSnapshot message should be received.
		This message Indicates the end of the transmission.
	Repeat the test for the following Event Flows:	
	PUBLIC_GLOBAL_REFERENCE_DA TA_FLOW	
	ACCOUNT_EVENT_FLOW	
4.	RISK_EVENT_FLOW	
	MARKETDATA_EVENT_FLOW	
	GIVEUP_EVENT_FLOW	
	SETTLEMENT_EVENT_FLOW	

4.3.2 IS1 007 - IS1 012 Information Subscriptions - Request ONLY Future Values

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
IS1 007 IS1 008 IS1 010 IS1 011 IS1 012 IS1 013	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Stay logged in and send a TaxSnapshotSubscribeReq message, to request a snapshot of future updates for the required Event Flow

Comment:

The Request Type is **ONLY** for <u>future</u> values (requestType=2). The current values are not sent to the client.

#	Test Step	Expected Result
1.	Establish a connection	Successful Logon
2.	Send a TaxSnapshotSubscribeReq message	Receive a successful TaxSnapshotSubscribeRsp message
		WHEN an update is made to the relevant data or new data is processed,
		THE data will be published , on the applicable flow.
4.	Repeat the test for the following Event Flows:	
	 PUBLIC_GLOBAL_REFERENCE_DA TA_FLOW 	
	ACCOUNT_EVENT_FLOW	
	RISK_EVENT_FLOW	
	MARKETDATA_EVENT_FLOW	
	GIVEUP_EVENT_FLOW	
	SETTLEMENT_EVENT_FLOW	
	Remain logged on.	

4.3.3 IS2 001 Manage Information Subscriptions – Remove Subscription

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
IS2 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Remove your Subscription to the "PUBLIC_GLOBAL_REFERENCE_DATA_FLOW" by sending a TaxRemoveSubscriptionReq.

Comment:

Stay logged on to the "RTC Post-trade Gateway",

Activity Steps

#	Test Step	Expected Result
1.	Send a TaxRemoveSubscriptionReq message	Receive a successful SimpleRsp message
	Remain Logged ON.	

4.3.4 IS2 003 Manage Information Subscriptions –Current subscription with future updates

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
IS2 003	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Re-Subscribe to the "PUBLIC_GLOBAL_REFERENCE_DATA_FLOW" by sending a TaxSnapshotSubscribeReq, to receive both current & future snapshots, i.e. requestType = "3".

Comment:

The requestType must be "3"; current and future updates should be received for the requested event.

#	Test Step	Expected Result
1.	Send a TaxSnapshotSubscribeReq message	Receive a successful TaxSnapshotSubscribeRsp message
		A TaxStartSnapshot message will be received immediately, followed by the requested Reference data (as well as future updates).
		Once all required reference data has been sent by RTC, an TaxEndSnapshot message should be received indicating the end of the transmission.
3.	Remain Logged ON.	Confirm that both current and future updates were received

4.3.5 RS1 001 Replay Service – Request NO Future Updates

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
RS1 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send Replay Request to request retransmission of a specific events, with NO future updates.

Comment:

The Replay Request Type must be "0", only for events that support a replay.

Activity Steps

	<u> </u>		
#	Test Step	Expected Result	
1.	Send a TaxReplayReq message	Receive a successful TaxReplayRsp	
		THEN TaxReplayStartEvent message will be received, followed by the requested events.	
		When all required reference data has been sent by the system, a TaxReplayEndEvent message should be received which indicates the end of the transmission.	
		Confirm that NO future events were replayed, only current.	
	Remain Logged ON.		

4.3.6 RS1 002 Replay Service – Specific events

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
RS1 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send Replay Request to request retransmission of a specific events, **without** issuing requests for New Segments (Replay requestType = "1").

Comment:

The Replay Request Type must be "1", only for events that support a replay.

#	Test Step	Expected Result

1.	Send a TaxReplayReq message	Receive a successful TaxReplayReq message
		WHEN an update is made to the relevant Reference data
		THEN TaxReplayStartEvent message will be received, followed by the requested Reference data.
		Once all required reference data has been sent by the system, a TaxReplayEndEvent message should be received indicating the end of the transmission.

4.3.7 RS1 003 Replay Service - Specific events

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
RS1 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send Replay Request to request retransmission of a specific events, **without** issuing requests for New Segments (requestType = "2").

Comment:

The Replay Request Type must be "2", only for events that support a replay.

#	Test Step	Expected Result
1.	Send a TaxReplayReq message	Receive a successful TaxReplayRsp message
		WHEN an update is made to the relevant Reference data
		THEN TaxReplayStartEvent message will be received, followed by the requested Reference data.
		Once all required reference data has been sent by the system, a TaxReplayEndEvent message should be received indicating the end of the transmission.
	Remain Logged ON.	Confirm that BOTH future and current updates were replayed.

4.4 Reference Data Maintenance – Member Maintained

4.4.1 MM1 001 Ref data Maintenance – Add Member Client (Resident)

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
MM1 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add a Resident Member Client.

Comment:

Do <u>not</u> **Enable** the new member client until it has been linked to the correct clearing member, as the <u>Member object</u> will not be published.

Ensure that you have subscribed to the Public Global Reference Data Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activity Steps

	Test Step	Expected Result
1.	Send an CdAddRtcMemberClientReq message, for a Resident Member Client	Receive a successful CdAddRtcMemberClientRsp message
		Confirm that the Member object did NOT publish with the new Member Client.
	. Send a CdAddRtcMemberClientClearingLinkReq message, to link the Resident Member Client to the required Clearing Member.	Confirm that the Member Clientis created correctly (and has <u>not</u> yet been enabled)
	Send a request to Enable the relevant member client by sending a CdEnableDisableRtcMemberClientReq message.	Confirm that Member Client is now enabled, AND that the Member events were received Receive a successful CdResponse
		Message
		Receive updates for the following events:
		Member
		AccessGroup
		Position Account
		Collateral Account
		Risk Node

4.4.2 MM1 002 Ref data Maintenance – Add Member Client (Non-Resident)

Test ID:	Case	Gateway Description	Mandatory	Self-Conformance Test
-------------	------	---------------------	-----------	-----------------------

Description:

Send a request to Add a Non Resident Member Client.

Comment:

Request JSE to enable the new member client after it has been linked to the correct Clearing Member, as the Member object will not be published.

Ensure that you have subscribed to the Public Global Reference Data Flow Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activity Steps

#	Test Step	Expected Result
1.	Send an CdAddRtcMemberClientReq message, for a Non-Resident Member Client	Receive a successful CdAddRtcMemberClientRsp message
		Confirm that the Member object did NOT publish with the new Member Client.
2	Send a ZAR cash account for the Non-Resident Client. Send a CdAddRtcMemberClientClearingLinkReq message, to link the Non-Resident Member Client to the required Clearing Member. Request JSE to enable the member client.	Confirm that Member Clientis created correctly (and has not yet been enabled) Confirm that Member Client is now enabled, AND that the Member events were received Receive updates for the following events: • Member
		AccessGroupPosition Account
		Collateral Account
		Risk Node
2.		

4.4.3 MM1 003 - Reference Data Maintenance - Update Member Client

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test		
MM1 003	Post-trade Gateway (RTC)	Y	Self-Conformance Test		
Description:	Description:				
Send a reque	Send a request to Update the relevant Member Client.				
Comment:					

Send a request to Update one of your existing Member Clients (Resident/Non-Resident), and confirm that the new updates were visible when the Member object is published.

#	Test Step	Expected Result

1.	Send a CdUpdateRtcMemberClientReq message, with an update to the relevant field/(s).	Receive a successful CdResponse Message
		Receive updates for the following events: • Member
		Confirm that the Member object DID publish the relevant updates to the Member Client.

4.4.4

		Member Client.				
MM1 00	MM1 004 - Reference Data Maintenance – Disable Member Client					
Test Ca	Gateway Description		Mandatory	Self-Conformance Test		
MM1 004	Post-trade Gateway (RTC)		Υ	Self-Conformance Test		
Description: Send a request to Disable the relevant Member Client.						
Comment: Send a request to Disable one of your existing Member Clients (Resident/Non-Resident), and confirm that the new updates were visible when the Member object is published. Activity Steps						
# T	est Step	E	xpected Resu	lt		
n	end a request to Disable the relevant nember client by sending a, cdEnableDisableRtcMemberClientReq nessage.	R	Receive a successful CdResponse Message Receive updates for the following eve • Member • Position Account Confirm that the Member object DID publish with the relevant updates			
				abled Member Client).		
ti (nable the Member Client upon completion of nis Test Case using the same message CdEnableDisableRtcMemberClientReq nessage).	Receive a successful CdResponse Message		essful CdResponse		

Remain Logged ON.

Receive updates for the following events:

Member

cases.

Position Account

Confirm that the Member object **DID** publish with the relevant updates (showing the disabled Member Client).

Note: Not required to pass this test case but required as input to subsequent test

4.4.5 MM1 005 - Reference Data Maintenance - Add Cash Account

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
MM1 005	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add the relevant Cash Account.

Comment:

Members can ONLY add one Cash Account per currency per client.

Activity Steps

#	Test Step	Expected Result
1.	Send a CdAddCashAccountReq message.	Receive a successful CdResponse Message
		Receive the CashAccount reference data entity on the "Public_Global_Reference_Data_Flow":

4.4.6 MM1 006 - Reference Data Maintenance - Update Cash Account

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
MM1 060	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to **Update** the relevant CashAccount.

Comment:

The CashAccount reference data entity will be published on the

"Public_Global_Reference_Data_Flow".

Activity Steps

#	Test Step	Expected Result
1.	Send a CdUpdateCashAccountReq message.	Receive a successful CdResponse Message
		Receive the CashAccount reference data entity on the "Public_Global_Reference_Data_Flow".

4.4.7 MM1 007 & MM1 008 - Reference Data Maintenance - Add Sub Account (Member & Client)

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
MM1 007	Post-trade Gateway (RTC)	V	Self-Conformance Test
MM1 008	Fost-trade Galeway (KTC)		Self-Comomitance rest

Description:

Send a request to **Add** the relevant Sub Account for Client, using the Position Account Request message (Position Account Sub Type: "SUB").

Note: Authorization from the JSE is required before position sub accounts can be created. Please request CTA to enable.

Comment:

Ensure that positionAccountSubType=3 ("SUB") is used .

Acti	Activity Steps			
#	Test Step	Expected Result		
1.	Send an CdAddRtcPositionAccountReq message, with Position Account Sub Type: "SUB"	Receive a successful CdAddRtcPositionAccountRsp message		
		Receive the PositionAccount message, which is published on the "Public_Global_Reference_Data_Flow".		

4.4.8 MM1 009 - Reference Data Maintenance - Disable Position Account

Test ID:	Case	Gateway Description	Mandatory	Self-Conformance Test
MM1 (009	Post-trade Gateway (RTC)	Y	Self-Conformance Test
Send a	Description: Send a request to Disable the relevant Position Account for a Client/Member.			
	Comment: Position Accounts cannot be disabled until all positions have been closed out. Activity Steps			and.
		•	ave been closed	out.
		os	Expected Resu	
Activi	Test Send	Step a ableDisableRtcPositionAccountReq	Expected Resu	lt

4.4.9 MM1 010 - Reference Data Maintenance - Enable Position Account

Test ID:	Case	Gateway Description	Mandatory	Self-Conformance Test
MM1	010	Post-trade Gateway (RTC)	Y	Self-Conformance Test
Descr	iption:			
Send	a reque	est to Enable the relevant PositionAccount for	or a Client/Memb	er.
Comn	Comment:			
Activi	ty Step	os		
#	Test	Step	Expected Resu	lt
1.	Send CdEn mess	ableDisableRtcPositionAccountReq	Receive a succe CdEnableDisabl message	essful eRtcPositionAccountRsp
			which is publishe	itionAccount message, ed on the _Reference_Data_Flow".

4.5 Risk Parameter Maintenance – Member Maintained

4.5.1 RP1 001 Risk Parameter Maintenance – Set Risk Limit for a Trading Member

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
RP1 001	Post-trade Gateway (RTC)	Υ	Self-Conformance Test
Description:			
Send a request to Set the relevant Risk Limit for Trading Member .			

Comment:

CMs can set a lower value than the global value of their TMs risk nodes.

Ensure that you have subscribed to the PUBLIC_GLOBAL_REFERENCE_DATA_FLOW to receive future updates (request type: 2 or 3)

Activity Steps

#	Test Step	Expected Result
1.	Send a CdSetTradingMemberRiskLimitReq message, for a Trading Member .	Receive a successful CdResponse message
		Receive a RiskNode message with the updated risk limit.

4.5.2 RP1 002 Risk Parameter Maintenance – Set Risk Limit for a Client

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
RP1 002	Post-trade Gateway (RTC)	Y	Self-Conformance Test
Description:			

Description:

Send a request to Set the relevant Risk Limit for Client.

Comment:

TMs can set higher value than the global value.

Ensure that you have subscribed to the PUBLIC_GLOBAL_REFERENCE_DATA_FLOW to receive future updates (request type: 2 or 3)

Activity Steps

#	Test Step	Expected Result
1.	Send a CdSetClientRiskLimitReq message, for a Client.	Receive a successful CdResponse message
		Receive a RiskNode message with the updated risk limit.

4.5.3 RP1 003 Risk Parameter Maintenance – Set Additional Margin Percentage for a Trading Member

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test	
RP1 003	Post-trade Gateway (RTC)	Υ	Self-Conformance Test	
Description:				
Send a request to Set the relevant Additional Margin Percentage for Trading Member .				

Comment:

CMs can set a higher value than the global value on their TMs.

Ensure that you have subscribed to the PUBLIC_GLOBAL_REFERENCE_DATA_FLOW to receive future updates (request type: 2 or 3)

Activity Steps

#	Test Step	Expected Result
1.	Send a	Receive a successful CdResponse
	CdSetTadingMemberAMPercentageReq message, for a Trading Member .	Receive a RiskNode message with the updated Additional Margin Percentage.

4.5.4 RP1 004 Risk Parameter Maintenance – Set Additional Margin Percentage for a Client

Test Case ID:	(dateway Description		Self-Conformance Test
RP1 004 Post-trade Gateway (RTC)		Y	Self-Conformance Test
Description:			

Send a request to **Set** the relevant Additional Margin Percentage for **Client**.

Comment:

TMs can set a higher value than the global value.

Ensure that you have subscribed to the PUBLIC_GLOBAL_REFERENCE_DATA_FLOW to receive future updates (request type: 2 or 3)

Activity Steps

#	Test Step	Expected Result
1.	Send a CdSetClientAMPercentageReq message, for a Client.	Receive a successful CdResponse
		Receive a RiskNode message with the updated Additional Margin Percentage.

4.5.5 RP1 005 Risk Parameter Maintenance – Set Minimum Cash Limit

Test Case ID:	(jateway I)escription		Self-Conformance Test
RP1 005	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Set the relevant Minimum Cash Limit for TM/Client.

Comment:

CM & TM can set the minimum limit to be covered in cash within the global. CM sets a higher limit that the clearing house (JSE). TM sets a limit higher than the CM.

Ensure that you have subscribed to the PUBLIC_GLOBAL_REFERENCE_DATA_FLOW to receive future updates (request type: 2 or 3)

#	Test Step	Expected Result
1.	Send a CdSetMinimumZARLimitReq message, for a Trading Member .	Receive a successful CdResponse

4.6 Trade Management

4.6.1 TM1 001 Trade Management – Receive confirmation of Trade Cancellation (OFF screen)

Test Case ID: Mandatory Self-Conformance							
TM1 0	001 Post-trade Gateway (RTC) Y Self-Conforman						
	Description: Receive a confirmation of a trade Cancel via the Account Position Event						
NB NO	NB NOTE: Ensure that you have trade ID of the trade you are expecting to be cancelled. Ensure that you have subscribed to the Account_Position_Event_Flow prior to the trade cancellation (request type: 2 or 3).						
Activi	ity Step	os					
#	Test Step Expected Result						
		•	•				

4.7 Deal & Position Management

cancelled.

4.7.1 PT1 001 Deal Management - Accumulate Trades

Test ID:	Case	Gateway Description	Mandatory	Self-Conformance Test	
PT1 0	01	Post-trade Gateway (RTC)	Υ	Self-Conformance Test	
Descr	ription:				
Send a	a reque	est to accumulate a number of trades into a s	ingle trade.		
Comn	nent:				
NB NOTE: Ensure that you have a 2 House Sub account Trades that match. Ensure that you have subscribed to the Account_Position_Event_Flow to receive future updates (request type: 2 or 3 Activity Steps					
subsci	ribed to	the Account_Position_Event_Flow to receive			
subsci	ribed to	the Account_Position_Event_Flow to receives		s (request type: 2 or 3).	
subsci Activi	ribed to	the Account_Position_Event_Flow to receives Step	Expected Resurble Receive a succe	s (request type: 2 or 3).	

4.7.2 PT1 002 Deal Management - Modify Trade Sub Account

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test			
PT1 002	Post-trade Gateway (RTC)	Y	Self-Conformance Test			
Description: Send a reque	est to modify the Sub Account for a specific Tra	ade.				
Comment:						
Move a Trade from one House Sub account to a House Main account. Ensure that you have subscribed to the Account_Position_Event_Flow, to receive future updates (request type: 2 or 3).						

Activi	ty Steps						
#	Test Step			Expected	Resul	t	

1.	Send a ModifyTradeSubAccountReq message.	Receive a successful ModifyTradeSubAccountReq message.
		Receive updates the "Account_Position_Event".

4.7.3 PT1 003 Deal Management - Assign Trades

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 003	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Assign Trade from one TM to another.

Comment:

NB NOTE: Assign Trade from one TM House Main account to another TM House Main account.

Actioning of the assigned trade must be done within the same day, or the system will remove them. Ensure that you have subscribed to the Account_Position_Event_Flow & GiveUp_Event_Flow, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send an AssignTradesReq message.	Receive a successful ResponseMessage. Confirm that the trade was NOT margined, as it has not yet been approved. Initiator and Recipient will receive the "GiveUp_Event_Flow".

4.7.4 PT1 004 Deal Management – Approve Give Up

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 004	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Approve an assigned or Tripartite Trade.

Comment:

Send a request to Approve an assigned or Tripartite Trade. Ensure that you have subscribed to the Give Up Event, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send an ApproveGiveUpReq message.	Receive a successful ResponseMessage Receive the "GiveUp_Event_Flow" & the "Account_Position_Event_Flow".

4.7.5 PT1 005 Deal Management – Allocate Trade from House Main to Client Main

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test		
PT1 005	Post-trade Gateway (RTC)	Y	Self-Conformance Test		
Description:					
Send a request to Allocate Trade from own account (full or partial) to a client account.					

Comment:

NB NOTE: Allocate Trade from House Main account to Client Main account.

Ensure that you have subscribed to the Account Event Flow, to receive future updates (requestType: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send an AllocateTradeReq message.	Receive a successful AllocateTradeRsp message.
		Receive updates post the allocation on the "Account_Position_Event".

4.7.6 PT1 006 Deal Management - Correct Principal

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 006	Post-trade Gateway (RTC)	Υ	Self-Conformance Test

Description:

Send a request to Correct Principal that has been assigned to the wrong Client.

Comment:

NB NOTE: Perform the Correct Principal from the Client Main account to the House Sum/Main account.

Ensure that you have subscribed to the Account_Position_Event_Flow, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a CorrectPrincipalReq message.	Receive a successful CorrectPrincipalRsp message.
		Receive updates post the allocation on the "Account_Position_Event".

4.7.7 PT1 007 Deal Management – Allocate Trade from House Sub to Client Main

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 007	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Allocate Trade from own account (full or partial) to a client account.

Comment:

NB NOTE: Allocate Trade from House Sub account to Client Main account.

Ensure that you have subscribed to the Account Event Flow, to receive future updates (requestType: 2 or 3).

#	Test Step	Expected Result	
1.	Send an AllocateTradeReq message.	Receive a successful AllocateTradeRsp message.	
		Receive updates on the "Account_Position_Event".	

4.7.8 PT1 008 Deal Management – Correct Allocation Error

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 008	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Correct an Allocation that has been assigned to the wrong Client.

Comment:

NB NOTE: Perform Correct Allocation Error from Client Main to another Client Main within the same TM.

Please ensure that Test Case PT1 001 Allocate Trade has been successfully completed prior to executing this Test Case. Ensure that you have subscribed to the Account_Position_Event_Flow & Trade Position Event, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a CorrectAllocationErrorReq message.	Receive a successful CorrectAllocationErrorRsp message. Receive updates post the allocation on the "Account_Position_Event".

4.7.9 PT1 009 Deal Management - Tripartite Allocation

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 009	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Tripartite Allocate for another member's client.

Comment:

NB NOTE: Perform a Tripartite Allocation from one TM's House Main account to another TM's Client Main account.

Actioning of the tripartite trade must be done within the same day, or the system will remove them. Ensure that you have subscribed to the GiveUp_Event_Flow, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a TripartiteAllocationReq message.	Receive a successful TripartiteAllocationRsp message. Confirm that Risk was not moved until
	, , ,	approval took place.
		Receive updates on the "GiveUp_Event_Flow".

4.7.10 PT1 010 Deal Management - Cancel Give Up

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 010	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Cancel assigned or Tripartite Trade.

Comment:

NB NOTE: Ensure that you have a Tripartite Trade in the correct GiveUp State to perform the cancellation.

Send a request to Cancel assigned or Tripartite Trade. Ensure that you have subscribed to the Give Up Event, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a CancelGiveUpReq message.	Receive a successful ResponseMessage Confirm that the recipient of the Give Up Event has a new Event with status in "CANCELLED". Receive updates on the "GiveUp_Event_Flow".

4.7.11 PT1 011 Deal Management - Reject Give Up

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 011	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Reject an assigned or Tripartite Trade.

Comment:

NB NOTE: Ensure that you have a Tripartite Trade in the correct GiveUp State to perform the rejection.

Send a request to Reject an assigned or Tripartite Trade. Ensure that you have subscribed to the Give Up Event, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a RejectGiveUpReq message.	Receive a successful ResponseMessage Receive updates on the "GiveUp_Event_Flow".

4.8 Position Management

4.8.1 PT1 012 Position Management – Modify Position Sub Account

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test	
PT1 012	Post-trade Gateway (RTC)	Υ	Self-Conformance Test	
Description:				
Send a request to modify the Sub Account for a specific Position.				

Comment:

NB NOTE: Ensure that you have a Trade on the House Main account.

Move a Position from one set of house accounts to another. Ensure that you have subscribed to the Account_Position_Event_Flow & Trade Position Event, to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a ModifyPositionSubAccountReq message to the House Sub account.	Receive a successful ModifyPositionSubAccountRsp message. Receive updates on the "Account_Position_Event".

4.8.2 PT1 013 Position Management – Exercise Option Position

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 013	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request for early exercise of an option position.

Comment:

NB NOTE: Ensure that you have an Option Trade.

Send a request for early exercise of an option position. Ensure that you have subscribed to the Account Event Flow, to receive future updates (requestType: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send an ExerciseOptionPositionReg message.	Receive a successful ExerciseOptionPositionRsp message.
1.	Cond an Exercise option content of message.	Receive updates on the "Account_Position_Event".

4.8.3 PT1 014 Position Management – Abandon Option Position

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 014	Post-trade Gateway (RTC)	Υ	Self-Conformance Test

Description:

Send a request to abandon an option position.

Comment:

NB NOTE: Ensure that you have an Option Trade.

Send a request for early exercise of an option position. Ensure that you have subscribed to the Account_Position_Event_Flow, to receive future updates (request type: 2 or 3).

#	Test Step	Expected Result

1.	Send an AbandonOptionPositionReq	Receive a successful AbandonOptionPositionRsp message.
	message.	Receive updates on the "Account_Position_Event".

4.9 Commission Management

4.9.1 PT2 001 Commission Management – Submit a commission as initiator of an Assign

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test		
PT2 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test		
Description		•			
Send a reque	est to Add Commission as the Initiator of a	n Assign.			
Comment:					
Ensure that y type: 2 or 3)	This function can be executed by both the TM or Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.				
Activity Steps					
#	# Test Step Expected Result				
1.	Book an Off book trade where an Assign can performed (House Main)	Trade booked si	uccessfully.		

Send an AssignTradesReq message. Please refer to Test Scenario PT1 003 Deal Management-Assign Trades on Receive a successful ResponseMessage.

Send an AddCommissionReq message.

In the message above the Client
Reference and CommisionReference
fields must be populated as per the
quidance provided in Volume PT02 –

Receive a successful ResponseMessage
for the AddCommissionReq

Post-Trade EMAPI Clearing-Section 9.3 Commission Management and Appendix B- Commissions. Receive the CommissionEvent, published on the Account_Event_Flow.

4.9.2 PT2 002 Commission Management – Submit a commission as initiator of a Tripartite

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test	
PT2 002	Post-trade Gateway (RTC)	Υ	Self-Conformance Test	
Description:				
Send a request to Add Commission as the Initiator of a Tripartite.				

how to capture an Assign.

Comment:

This function can be executed by the TM or Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activity Steps

#	Test Step	Expected Result
1.	Book an Off book trade where tripartite allocation can performed (House Main).	Trade booked successfully.
2.	Send a TripartiteAllocationReq message.	Receive a successful TripartiteAllocationRsp message.
3.	Send an AddCommissionReq message. In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing-Section 9.3 Commission Management and Appendix B- Commissions.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.

4.9.3 PT2 003 Commission Management – Submit a commission when executing a trade (OFF screen)

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 003	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add Commission when executing an **OFF** screen trade, directly into a Client Account.

Comment:

This function can be executed by the TM or Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Public _Global_ Reference_ Data_ Flow first to retrieve the reference data and Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

#	Test Step	Expected Result
1	Book an Off book trade (Client Main)	Trade booked successfully.

Send an AddCommissionReq message.

In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in **Volume PT02 – Post-Trade EMAPI Clearing**-Section 9.3 Commission Management and Appendix B- Commissions.

Receive a successful ResponseMessage

Receive the **CommissionEvent**, published on the Account_Event_Flow.

4.9.4 PT2 004 Commission Management – Submit a commission when executing a trade (ON screen)

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 004	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add Commission when executing an **ON** screen trade, directly into a Client Account.

Comment:

This function can be executed by the TM or Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Public_ Global_ Reference_ Data_ Flow first to retrieve the Reference data and Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activity Steps

#	Test Step	Expected Result
1.	Book an On book trade (Client Main)	Trade booked successfully.
	Send an AddCommissionReq message.	
	In the message above the Client Reference and CommisionReference fields must be	Receive a successful ResponseMessage
2.	populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing -Section 9.3 Commission Management and Appendix B- Commissions.	Receive the CommissionEvent , published on the Account_Event_Flow.

4.9.5 **PT2 005 Commission Management – Cancel Commission**

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 005	Post-trade Gateway (RTC)	Υ	Self-Conformance Test

Description:

Send a request to Cancel Commission assigned to the Initiating TM.

Comment:

The Initiating TM or branch or CM on behalf of initiating TM or Branch can perform a cancellation on an "Add Commission" request sent within the same business day. Ensure that you have subscribed to the Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activi	Activity Steps				
#	Test Step	Expected Result			
1.	Book an Off book trade (Client Main)	Trade booked successfully.			
2.	Send an AddCommissionReq message. In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing-Section 9.3 Commission Management and Appendix B- Commissions.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.			
3.	Send a CancelCommissionReq message.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.			

4.9.6 PT2 006 Commission Management – Reject Commission

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 006	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Reject Commission assigned to the Initiating TM.

Comment:

The Destination TM or Branch or CM on behalf of destination TM or Branch can reject an "Add Commission" request sent by the Initiator within the same business day. Ensure that you have subscribed to the Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

#	Test Step	Expected Result
1	Ensure that there is an existing new Commission to reject. This can be arranged with JSE prior to the conformance test.	
2	Send a RejectCommissionReq message.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.

4.9.7 PT2 007 Commission Management – Submit a commission as initiator of an Allocation

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 007	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add Commission as the Initiator of an Allocation.

Comment:

This function can be executed by the TM, Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Public _Global _Reference _Data _Flow first to retrieve the Reference Data and Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activity Steps

#	Test Step	Expected Result
1.	Book an Off book trade (House Sub)	Trade booked successfully.
2.	Send an AllocateTradeReq message.	Receive a successful AllocateTradeRsp message. Receive updates post the allocation on the "Account_Position_Event".
	Send an AddCommissionReq message.	
3.	In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing -Section 9.3 Commission Management and Appendix B- Commissions.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.

4.9.8 PT2 008 Commission Management – Submit a commission as initiator of an Allocation Correction

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 008	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add Commission as the Initiator of Allocation Correction.

Comment:

This function can be executed by the TM, Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Public _Global_ Reference_ Data_ Flow first to retrieve the Reference data and Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

#	Test Step	Expected Result

1.	Book an Off book trade (Client Main)	Trade booked successfully.
2.	Send a CorrectAllocationErrorReq message.	Receive a successful CorrectAllocationErrorRsp message. Receive updates post the allocation on the "Account_Position_Event".
	Send an AddCommissionReq message.	
3.	In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing -Section 9.3 Commission Management and Appendix B- Commissions.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.

4.9.9 PT2 009 Commission Management – Commission charged to counterparty for reported trade.

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT2 009	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to Add Commission to counterparty for reported trade.

Comment:

This function can be executed by the TM, Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Activity Steps

#	Test Step	Expected Result
1.	Book reported (Off book) trade on own client account where the counterparty member is another TM/ Branch.	Trade booked successfully.
2.	Send an AddCommissionReq message. In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing-Section 9.3 Commission Management and Appendix B- Commissions.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.

4.9.10 PT2 010 Commission Management -Adhoc Commission

PT2 010	Post-trade Gateway (RTC)	Υ	Self-Conformance Test	
Description:				
Send a request to Add Adhoc Commission				

Comment:

This function can be executed by the TM, Branch and CM on behalf of TM or Branch. Ensure that you have subscribed to the Account_Event_Flow to receive future updates (request type: 2 or 3) before the steps below are executed.

Adhoc commissions are commission entries which do not require a reference to a specific deal. They can be used for bulk commissions i.e. a commission charged to a client for execution of multiple trades or to affect a commission adjustment for an erroneous commission from a previous day.

Activity Steps

#	Test Step	Expected Result
1.	Send an AddCommissionReq message. In the message above the Client Reference and CommisionReference fields must be populated as per the guidance provided in Volume PT02 – Post-Trade EMAPI Clearing-Section 9.3 Commission Management and Appendix B- Commissions. This scenario is to test where the CommissionReference field is left blank.	Receive a successful ResponseMessage Receive the CommissionEvent, published on the Account_Event_Flow.

4.10 Collateral Management

4.10.1 PT3 001 Collateral Management – Retrieve Allowed ZAR IMPORTANT NOTE:

The JSE will be facilitating the conformance testing of collateral process with CLEARING MEMBERS by using a predetermined member client authorised for securities and FOREX collateral. This client will be loaded as part of a trading member under the control of the JSE conformance test team. Details of this setup will be made available to Clearing Members leading up to their conformance test slot.

Test ID:	Case	Gateway Description	Mandatory	Self-Conformance Test	
PT3 (001	Post-trade Gateway (RTC)	Y	Self-Conformance Test	
Desc	ription:				
	l a reque r collate	est to Retrieve the ZAR amount for the allow ral.	ed FX Collateral	a Member can give to	
Comment:					
	•	you have subscribed to the Settlement_Even e updates (request type: 2 or 3).	t_Flow & Accour	nt_Position_Event_Flow to	
receiv	•	e updates (request type: 2 or 3).	t_Flow & Accour	nt_Position_Event_Flow to	
receiv	ve future	e updates (request type: 2 or 3).	t_Flow & Accour		

2.	Send a GetRequestsForFXCollateralReq	Receive a successful GetRequestsForFXCollateralRsp message, which will include an array of the collateral amounts
		Receive updates on the "Account_Position_Event".

PT3 002 Collateral Management - Retrieve Allowed ZAR 4.10.2

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT3 002	Post-trade Gateway (RTC)	Y	Self-Conformance Test
Description:			

Send a request to Register the FX Collateral amount for each Member/Client.

Comment:

Ensure that you have subscribed to the Settlement_Event_Flow & Account_Position_Event_Flow to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a RegisterFXCollateralReq message.	Receive a successful RegisterFXCollateralRsp message, which will include an array of the collateral amounts Receive the "Account_Position_Event_Flow".

PT3 003 Collateral Management – Retrieve withdrawals (Intraday) 4.10.3

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT3 003	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to retrieve all withdrawals that require confirmation (intraday).

Comment:

Ensure that you have subscribed to the Settlement_Event_Flow & Account_Position_Event_Flow to receive future updates (request type: 2 or 3).

#	Test Step	Expected Result
1.	Listen for the WithdrawalNotificationEvent message which will be published intra-day.	Sent via the Settlement_Event_Flow message
2.	Send a GetPaymentAdvicesReq message.	Receive a successful GetPaymentAdvicesRsp message, which will be "paged" which indicates whether or not there is more requests that need to be retrieved. Receive the "Account_Position_Event_Flow.

PT3 004 Collateral Management – Confirm/Reject one or more withdrawals (Intraday) 4.10.4

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT3 004	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to confirm or reject one or more withdrawals (intraday).

Comment:

Ensure that you have subscribed to the Settlement Event Flow & Account Position Event Flow to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a ConfirmWithdrawalsReq message, which includes the list of withdrawals that have been "Confirmed"/"Rejected".	Receive a successful ResponseMessage Receive the "Account_Position_Event_Flow.

PT3 005 Collateral Management - Confirm/Reject ALL withdrawals (Intraday) 4.10.5

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT3 005	Post-trade Gateway (RTC)	Y	Self-Conformance Test
Description:			

Send a request to confirm or reject **ALL** withdrawals (intraday).

Comment:

Ensure that you have subscribed to the Settlement_Event_Flow & Account_Position_Event_Flow to receive future updates (request type: 2 or 3).

Activity Steps

#	Test Step	Expected Result
1.	Send a ConfirmWithdrawalsReq message, which includes the list of withdrawals that have been "Confirmed"/"Rejected".	Receive a successful ResponseMessage Receive the "Account_Position_Event_Flow.

4.11 **Clearing Member Balancing**

PT4 001 CM Balancing – CM1 – Confirm Balance (End of Day) 4.11.1

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test	
PT4 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test	
Description:	Description:			

Send a request to whether or not the CM balanced for the Cm Balancing1 Event (End of Day).

Comment:

Ensure that you have subscribed to the Settlement_Event_Flow to receive future updates (request type: 2 or 3).

Activ	Activity Steps			
#	Test Step	Expected Result		
	Listen for the CmBalancing1Event message	Sent via the Settlement_Event_Flow message		
1.	which will be published at the end of the day.	Containing the MemberBalance1 message, which provides a summary list per TM.		
2.	Send a SetCmBalancingStatusReq message, to confirm the balanced Field indicates ("True"/"False").	Receive a successful SetCmBalancingStatusRsp message.		

4.11.2 PT4 002 CM Balancing – CM2 – Confirm Balance (End of Day)

ID:	Case	Gateway Description	Mandatory	Self-Conformance Test
PT4 0	PT4 002 Post-trade Gateway (RTC)		Y	Self-Conformance Test
Descr	iption:			
Send a	a reque	est to whether or not the CM balanced for th	e Cm Balancing2	Event (End of Day).
Comn	nent:			
type: 2	2 or 3).	ou have subscribed to the Settlement_Ever	nt_Flow to receive	e future updates (request
Activi	ty Step	os		
#	Test	Step	Expected Result	
	Lister	for the CmBalancing2Event message	Sent via the Sett message	tlement_Event_Flow
1.		of for the CmBalancing2Event message will be published at the end of the day.	message Containing the N	dement_Event_Flow demberBalance2 provides a summary list

4.12 Settlement Management

4.12.1 PT5 001 Settlement Management – Retrieve Settlement Instructions (ZAR/FX)

# Test	Step	Expected Resu	lt		
Activity Steps					
type: 2 or 3).					
Ensure that you have subscribed to the Settlement_Event_Flow to receive future updates (request					
Send a request to retrieve the relevant settlement instructions (ZAR/FX). Comment:					
-	Description:				
PT5 001	Post-trade Gateway (RTC)	Y	Self-Conformance Test		
Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test		

1.	Listen for the AggregatedSummaryClearingMemberEvent & AggregatedSummaryTradingMemberEvent events.	Sent via the Settlement_Event_Flow message Confirm that the subscription group is the same as the Account Event Flow
2.	Send a GetSettlementInstructionsReq message, which will be in "PENDING" status until it's been confirmed.	Receive a successful GetSettlementInstructionsRsp message.

Error Handling

4.12.2 EH1 001 Logon - Suspension/Un-Suspension

Test ID:	Case	Gateway Description	Mandatory	Self-Conformance / Supported Test	
EH1 001 Post-trade Gateway (RTC)		Post-trade Gateway (RTC)	Υ	Supported Test	
		after suspension or un-suspension of Inter	face User ID.		
Call C		er Support to book time for executing this te	est with a CTA.		
#	Test S	Step	Expected Re	sult	
1.	where	ain logged in to all interfaces/services e applicable	Interface User ID (Comp ID) suspended		
	Request CTA to suspend Interface Use (Comp ID)				
2.		olish a connection and Logon to the cable Gateway(s).	Logon(s) rejected.		
		rd the details of the TaxLogonReq failure	Interface User ID (Comp ID)		
	in the Conformance Test Report		Error Response received		
4. Terminate all		inate all client connections.	Interface User ID (Comp ID) un-		
	Requ (Com	est CTA to un-suspend Interface User ID p ID)	suspended		
5.		olish a connection and Logon to the cable Gateway(s).	Logon(s) successful.		
6.		rd the details of the TaxLogonReq ess Conformance Test Report	Interface User ID (Comp ID)		

4.12.3 EH1 003 Allocate to invalid account

Test Case ID:	Gateway Description	Mandatory	Self-Conformance / Supported Test
EH1 003	Post-trade Gateway (RTC)	Y	Supported Test

Description:

User attempts to allocate a trade to an account that is either inactive / invalid (to the Risk Node e.g. "HOUSE" instead of the actual account).

Comment:

NB NOTE: Ensure that you have a Trade on the House Main account, and allocate to an invalid account e.g. House Sub account.

This test case is applicable if it can be supported by a client. I.e. the client is able to disable client initiated messages. This test is mandatory unless agreed with the JSE.

Activity Steps

#	Test Step	Expected Result
1.	Establish a connection and Logon using the TaxLogonReq to the applicable Gateway.	Successful TaxLogonRsp.
2.	Attempt to Allocate Trade to an invalid account using the AllocateTradeReq message, (either to HOUSE account or to an account that has been suspended).	Receive a ResponseMessage with the relevant error code.

4.12.4 EH1 004 Incorrect System State

Test Case ID:	Gateway Description	Mandatory	Self-Conformance / Supported Test
EH1 004	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

User attempts to send CM Balance message, while the system is in a state of "OPEN"

This is a Self-Conformance Test Case, therefore no JSE assistance required here.

Comment:

This test case is applicable if it can be supported by a client. I.e. the client is able to disable client initiated messages. This test is mandatory unless agreed with the JSE.

Activity Steps

# Test Step		Expected Result	
1.	Establish a connection and Logon to the applicable Gateway.	Successful Logon.	
2.	Attempt to send a CM Balance when the system is in an "OPEN" state.	Receive a ResponseMessage with the relevant error code.	

4.13 Optional Test Cases

4.13.1 PT1 015 Deal Management – Query Trades

Test Case ID:	Gateway Description	Mandatory	Self-Conformance Test
PT1 015	Post-trade Gateway (RTC)	Y	Self-Conformance Test

Description:

Send a request to query trades from previous days.

Comment:

Send a request to query trades from previous days. If the "has More" flag has been set in the response, the request must be resubmitted as there are too many records being returned.

#	Test Step	Expected Result

1.	Send a QueryTradesReq message.	Receive a successful QueryTradesRsp message

4.13.2

RP1 006 Risk Management – Get Risk Array						
Test ID:	Case	Gateway Description	Mandatory	Self-Conformance Test		
RP1 0	06	Post-trade Gateway (RTC)	Y	Self-Conformance Test		
_	iption:					
		est to query trades from previous days.				
Comn	nent:					
Send a	a reque	est to query trades from previous days. If the	"has More" flag	has been set in the		
	•	e request must be resubmitted as there are t	•			
Activity Steps						
#	Test Step		Expected Result			
1.	Send	a GetRiskArrayReq message.	Receive a successful GetRiskArrayRsp message			