# CURRENCIES AND INTEREST RATE

Conformance Document:

V1.1

November 2024

# 1.  DOCUMENT CONTROL

## 1.1 Table of Contents

Contents

## 1.2. Document Information

| Drafted By: | JSE |
|---|---|
| Release Date: | 28 November 2024 |
| Status | Final |
| Version: | 1.1 |

## 1.3 Revision History

| Version | Date | Description |
|---|---|---|
| 1.0 | September 2024 | Initial Release |
| 1.1 | November 2024 | Updated Reporting a Repo – 5.1 |

## 1.4 References

| Name | Description |
|---|---|
| JSE Interest Rates and Currency Derivatives API Specification Version: 3.1Rev13 | Indicates the changes necessary to accommodate the functionality for the Nutron Bonds Repo Project |

## 1.5 Contact Details

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## 1.6 Terms/Acronyms and Definitions

| Abbreviation | Explanation |
|---|---|
| API | Application Programming Interface |
| JSE | Johannesburg Stock Exchange |

## 2. OVERVIEW

The purpose of this document is to provide clients with all the essential and detailed information for the NUTRON REPO REFORM Conformance Testing for the IRD and Bond Market.

The JSE Conformance Test Service allows clients to prove the interface between their systems and the JSE's. The tests cover a range of functional areas and prove client systems can interact and behave as specified with the core architecture. Events evaluated are frequently experienced during the trading day, while others are less frequently experienced.

JSE has embarked on an initiative that aims to introduce reforms to the current Repos market, which from a South African financial markets perspective lacks behind when compared to global practices. The products that will form part of this reform are outlined in detail in a separate document, referenced under the related documents section.

## 3. SERVICE OVERVIEW

Clients are 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. Mandatory testing is required for all Mandatory functions to ensure they comply with the Services Documentation. Software applications requiring conformance include all interfaces that will directly connect to Nutron for the IRD and Bond Markets.

### 3.1  Conformance Test Environment

Conformance testing will be conducted in the existing 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 Trading Interfaces

The Nutron solution for the IRD and Bond Markets has the main interface for trading, and this is how Clients gain access to production. The diagram below depicts the how clients connect to the Nutron solution. The Trading Service Participants (TSPs) (i.e. Members) will be required to evaluate the reporting and the download functionalities for the new Classic and Tri-Party Repos.
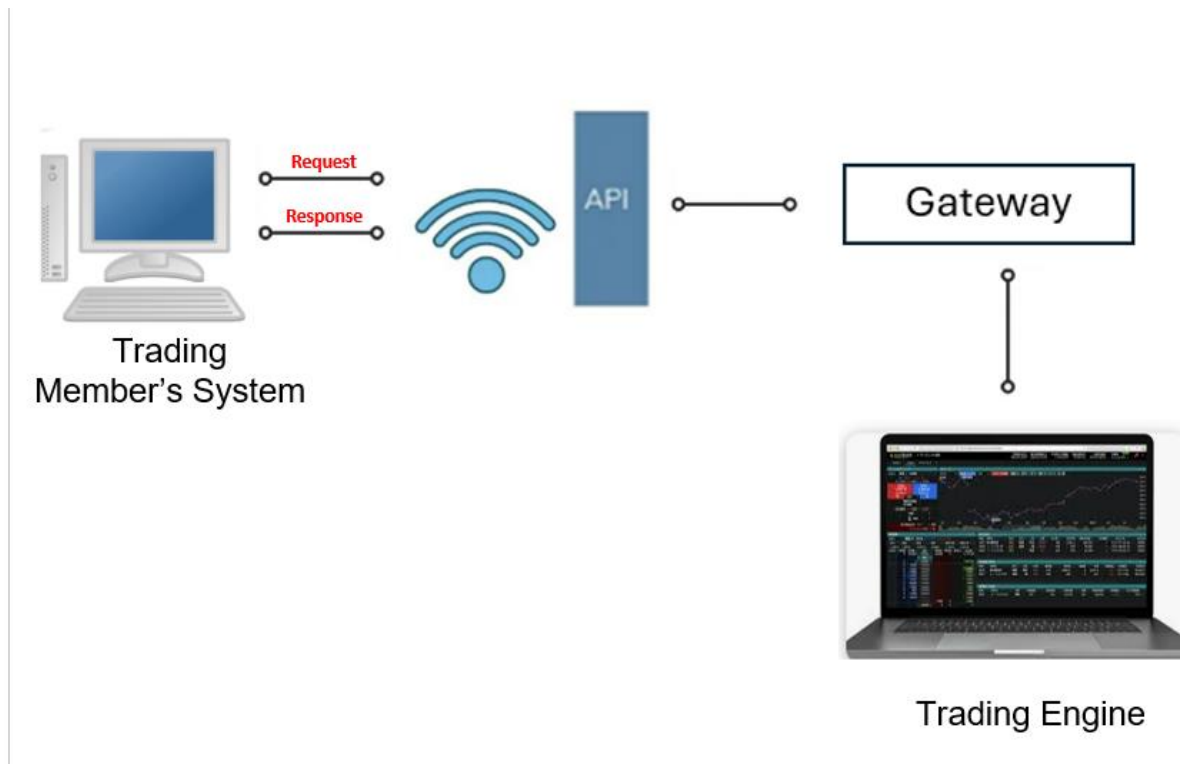


## 3.3 Conformance Test Process

The conformance test process will be as follows:

1. Clients must complete and submit the Conformance Test Report prior to conformance. This report outlines the functions supported by the software application being evaluated 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 Conformance Test Analyst (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.

9. 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.

## 3.4 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 their software application

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 IRD Conformance Report .

## 3.5 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.

Mandatory Conformance required for any new release implemented by the JSE unless otherwise stated by the JSE. Mandatory Conformance required for any changes made to conformed software unless otherwise agreed with the JSE.

### 3.6  Conformance Test Pricing

Pricing information can be found by contacting the JSE Client Services Centre.

## 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 Trading Service Participants (TSPs) (i.e. Members).
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.

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 unique identify the execution step. E.g. Member code, Principal Code, Dealer Code etc.
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.
All test scenarios are self-conformance.

# 5. KEY REPOS API PROCESSES AND MESSAGES

## 5.1 Reporting a Repo

## 5.2 Editing a Repo
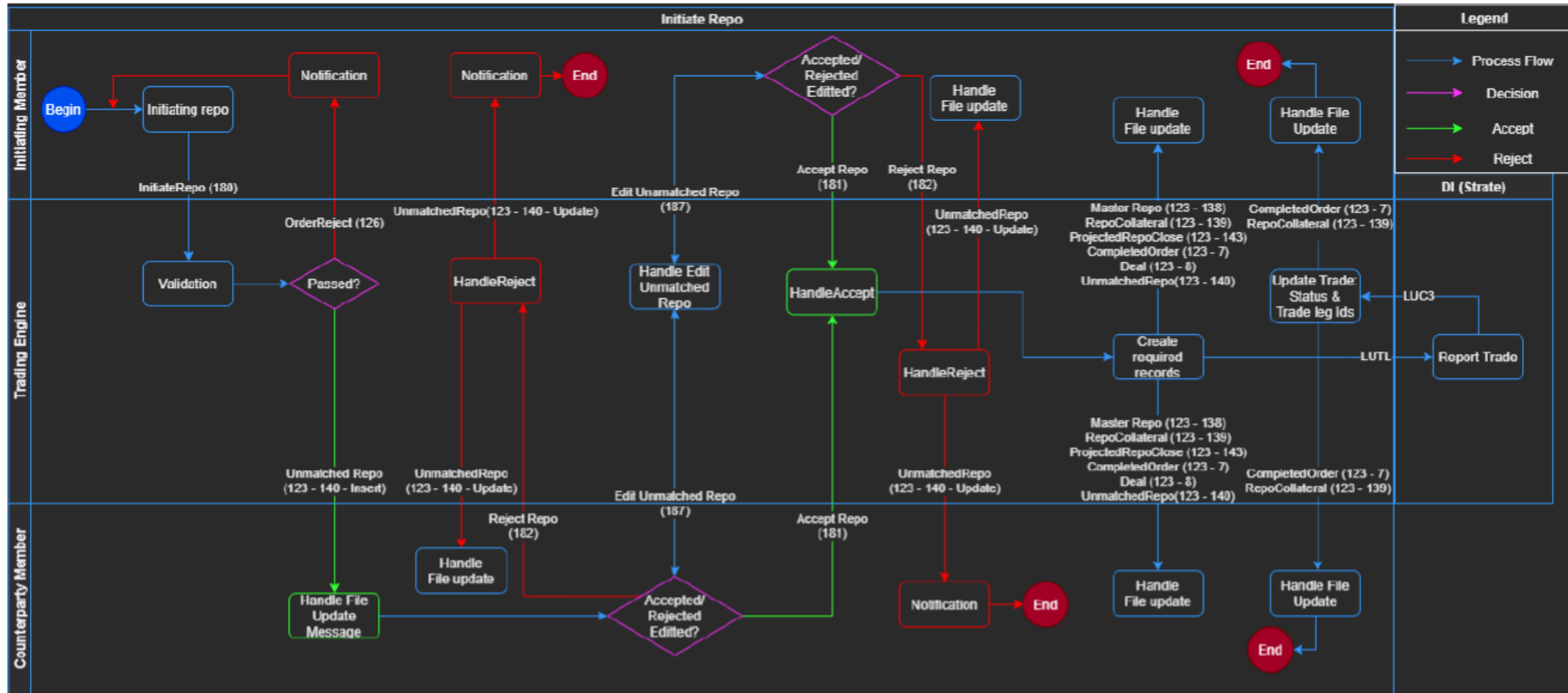
## 5.3 Reporting a Repo Interest Payment
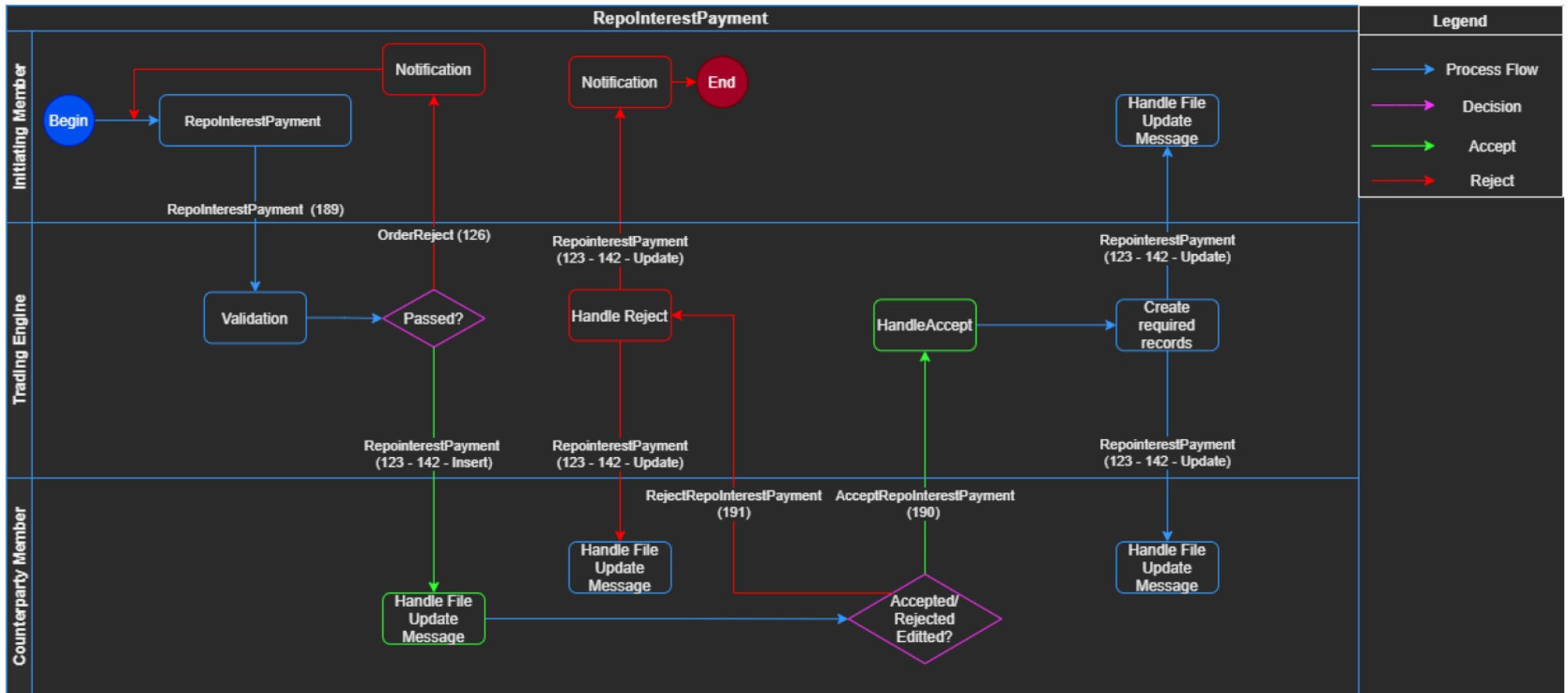
## 5.4 New Message Structures

All data structures will be received when the appropriate message type is submitted. The response messages are in the file download format and will be generated intra-day as part of 123 messages. The format of the download messages will be detailed in the API document (sec 9.61 – 9.70).

Below is a table with all messages that have been added to the API.

| Message Type No | File Identifier | Message |
|---|---|---|
| **Classic Repo** | | |
| 180 | | InitiateRepo |
| 181 | | AcceptUnmatchedRepo |
| 182 | | RejectUnmatchedRepo |
| 183 | | EditRepo |
| 184 | | SubstituteRepo |
| 185 | | CloseRepo |
| 186 | | CancelRepo |
| 187 | | CancelUnmatchedRepo |
| 188 | | EditUnmatchedRepo |
| **Repo Interest Payment** | | |
| 189 | | InitiateRepoInterestPayment |

| | | |
|---|---|---|
| 190 | | AcceptRepoInterestPayment |
| 191 | | RejectRepoInterestPayment |
| 192 | | CancelPendingRepoInterestPayment |
| **Tri-Party** | | |
| 193 | | InitiateTripartyRepo |
| 194 | | EditUnmatchedTripartyRepo |
| 195 | | CancelUnmatchedTripartyRepo |
| 196 | | AcceptUnmatchedTripartyRepo |
| 197 | | RejectUnmatchedTripartyRepo |
| 198 | | EditTripartyRepoStructure |
| **Response File Downloads** | | |
| 123 | 138 | MasterRepo |
| 123 | 139 | RepoCollateral |
| 123 | 140 | UnmatchedRepo |
| 123 | 141 | PendingRepoInterestPayment |
| 123 | 142 | RepoInterestPayment |

| 123 | 143 | ProjectedRepoClose |
|-----|-----|--------------------|
| 123 | 144 | UnmatchedTripartyRepo |
| 123 | 145 | TripartyDeal |
| 36  | 146 | CollateralBasket |

*Table 1.New  Message Structures*

# 6. Classic Repos and Triparty Trading Conformance

The initiation of a repurchase agreement (Repo) is triggered when one member request to sell their securities to another member and they agree on terms to repurchase those securities later at a higher price.

**The following table depicts the Repo types:**

| Repo Type | Sub-Type | Explanation |
|---|---|---|
| **Classic Repo** | Closed Repo | A repurchase agreement between two members where the maturity date is specified at initiation. |
| | Closed Collateral Swap | A collateral swap is simply the simultaneous Repo and reverse (or loan and borrow) of differently rated (or valued) securities or baskets of securities. |
| | Open-ended Repo | An Open-Ended Repo is a transaction which is terminable on demand and therefore has an undefined repurchase date until it is terminated. |
| | Open-ended Evergreen | An evergreen Repo is an open transaction under which both parties have an option to terminate the transaction on any business day, subject only to an agreed termination notice period. The key characteristic of an evergreen Repo is the extended minimum notice period for termination. This is intended to ensure that the Repo provides funding for at least the required notice period. |
| **Tri-Party Repo** | Closed | A Repurchase agreement transaction for which post-trade processing, i.e. collateral selection, payments and deliveries, custody of collateral securities, collateral management, and other operations during the life of the transaction, is outsourced by the parties to a third-party agent. The maturity date of this transaction is specified at initiation. |
| | Open-ended | A Tri-party transaction whereby the termination date is not defined at initiation. |

## 6.1 Report Classic Repo Trade - 180

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| **T1-001** | Report a Classic Repo | Y |

| **Description:** |||
|---|---|---|
| Member submits a message to report a Classic Repo Trade. |||
| **Trigger:** |||
| • The Member must be logged in and have permission and rights to submit an API message to the JSE Trading engine. |||

| **Activity Steps** |||
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type180 to report a Classic Repo trade | - Classic Repo trade submitted successfully.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125 |
| 2 | Record the details of message type 123 - 140 | |

## 6.2 Accept an Unmatched Classic Repo Trade - 181

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| **T1-002** | Accept an Unmatched Classic Repo | Y |

| **Description:** |||
|---|---|---|
| Member submits a message to accept a Classic Repo Trade. |||
| **Trigger:** |||
| • The initiating member has reported the Repo trade.<br>• The unmatched Repo trade record published to the initiating and counterparty members. |||

| Activity Steps | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type181 to accept an Unmatched Classic Repo trade | - Classic Repo trade accepted successfully.<br><br>- Both parties will receive the following message types and identifiers:<br><br>    o  Master Repo (123 – 138)<br>    o  Repo Collateral (123 0-139)<br>    o  Projected Close (123 – 143)<br>    o  Completed Order (123 – 7)<br>    o  Deal (123 – 8)<br>    o  Unmatched Repo (123 – 140)<br><br>If the message has failed, receive announcement message type number 125.<br><br><br>The trade legs will have a status of "Unconfirmed" – the repo collateral record will reflect the status of the trade. Once the trade legs are confirmed by Strate, the match references and the status of the trades are updated. |
| 2 | Record the details of all the response message types. | |

## 6.3 Reject an Unmatched Classic Repo Trade - 182

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| **T1-003** | Reject an Unmatched Classic Repo | Y |
| **Description:** | | |
| Member submits a message to reject an unmatched Classic Repo Trade. | | |
| **Trigger:** | | |
| • The initiating member has reported the Repo trade, and the message shared with both initiator and counterparty. | | |
| **Activity Steps** | | |

| # | Test Step | Expected Result |
|---|-----------|-----------------|
| 1 | Submit Message Type 182 to reject an Unmatched Classic Repo trade. | - Classic Repo trade rejection submitted successfully.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.4 Edit Classic Repo Trade - 183

| Test Case ID | API Gateway | Mandatory |
|--------------|-------------|-----------|
| T1-004 | Edit a matched Classic Repo | Y |

**Description:**

Member submits a message to edit a matched Classic Repo Trade.

**Trigger:**

- The Repo matched successfully, and trade legs updated with status = Unsettled

**Activity Steps**

| # | Test Step | Expected Result |
|---|-----------|-----------------|
| 1 | Submit Message Type 183 to amend the values of a matched Classic Repo trade.<br><br>The Edit Repo message manages the following edits:<br><br>(a) Re-rate<br><br>(b) Extension of the termination date<br><br>(c) Reporting of Interest rate payment + Rerate | - Classic Repo trade edit message submitted successfully.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |

| | (d) Reporting of Interest rate payment + Extension | |
|---|---|---|
| 2 | Record the details of all the response message types. | |

## 6.5 Substitute A Collateral - 184

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-005 | Substitute a Collateral | Y |

**Description:**

A member submits a message to replace an existing collateral with a different instrument of an equal or higher value. A Member can substitute a Repo with a single instrument multiple times, but the system will allow the member to only substitute a Repo with multiple instruments (maximum of 3) once. A single collateral can be substituted with multiple instruments of equal or higher combined value.

**Trigger:**

- The Repo has matched, and trade legs updated with status = Unsettled

| Activity Steps | | |
|---|---|---|
| # | Test Step | Expected Result |
| 1 | Submit Message Type 184 to substitute a single / multiple instruments. | - New single / multiple collateral(s) substituted successfully.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.6 Close a Repo – 185

| Test Case ID | API Gateway | Mandatory |
|:---:|:---:|:---:|
| T1-006 | Close a Repo | Y |

| **Description:** |
|---|
| Member submits a message to terminate an Open-ended / Evergreen Classic Repo on a specified date. |

| **Trigger:** |
|---|
| <ul><li>The Repo has matched, and trade legs updated with status = Unsettled</li><li>There is no closing date for the Repo.</li><li>The notice period saved if the Repo is Evergreen.</li></ul> |

| **Activity Steps** | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type 185 to close an Open-ended / Evergreen Classic Repo. | - The closing date of the Open-ended / Evergreen Classic Repo is saved successfully.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.7 Cancel a Repo – 186

| Test Case ID | API Gateway | Mandatory |
|:---:|:---:|:---:|
| T1-007 | Cancel a Repo | Y |

| **Description:** |
|---|
| The initiating member submits a message to cancel a Classic Repo that has not match yet. If the initiation leg (R1) is settled the cancellation will be rejected. The cancellation reason will be displayed to both parties if provided at cancellation. |

| **Trigger:** |
|---|
| |

| # | Test Step | Expected Result |
|---|---|---|
| 1 | Submit Message Type 186 to cancel a Classic Repo. | - The cancellation of a Classic Repo saved successfully.<br>- The record deleted end of day.<br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.8 Cancel an Unmatched Repo – 187

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-008 | Cancellation of an unmatched Repo | Y |

**Description:**

Initiating member submits a message to cancel changes that are pending approval from the counterparty of an unmatched Classic Repo. The cancellation reason will be displayed to both parties if provided at cancellation.

**Trigger:**

- The initiating member has reported the Repo trade and message shared with both parties.
- Initiation leg (R1) has not settled

| Activity Steps | | |
|---|---|---|
| # | Test Step | Expected Result |
| 1 | Submit Message Type 187 to cancel an unmatched Classic Repo. | - The cancellation of an unmatched Classic Repo saved successfully.<br>- The record deleted end of day. |

| | | - Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
|---|---|---|
| **2** | Record the details of all the response message types. | |

## 6.9. Edit an Unmatched Repo – 188

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| **T1-009** | Edit  an Unmatched Repo | Y |

| **Description:** |
|---|
| A member submits a message to edit an unmatched Classic Repo where the initiation leg (R1) has not settled yet. After editing an unmatched Classic Repo, the status will become pending – indicating that the request is pending approval from the Counterparty. |

| **Trigger:** |
|---|
| • The initiating member has reported the Repo trade and message shared with both parties.<br>• R1 has not settled |

| **Activity Steps** | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| **1** | Submit Message Type 188 to edit an unmatched Classic Repo. | - The amendment of an unmatched Classic Repo saved successfully.<br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| **2** | Record the details of all the response message types. | |

## 6.10 Report a Repo interest payment – 189

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0010 | Report a Repo interest payment | Y |

**Description:**

An initiating member submits a message to report a Repo interest rate payment that has been agreed by the two parties. The pending payment record is shared with the counterparty to be accepted / rejected. After editing an unmatched Classic Repo, the status will become pending – indicating that the request is pending approval from the Counterparty.

**Trigger:**

- The Repo has matched, and trade legs updated with status = Unsettled

| **Activity Steps** | | |
|---|---|---|
| # | Test Step | Expected Result |
| 1 | Submit Message Type 189 to report a Repo interest payment | - The interest payment value and payment date submitted successfully.<br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.11 Accept a Repo interest payment – 190

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0011 | Accept a Repo interest payment | Y |

**Description:**

A counterparty submits a message to accept the reported interest rate payment that has been agreed between the two parties. The total value of each interest payment made

throughout the lifetime of the Classic Repo will be deducted from the interest amount calculated at the close of the Repo.

**Trigger:**

- The Repo interest payment reported successfully.
- The status of the Repo interest rate payment is pending awaiting the acceptance from the Counterparty.

| **Activity Steps** | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type 190 to accept a Repo interest payment | - The interest payment value and payment date saved successfully.<br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.12 Reject a Repo interest payment – 191

| **Test Case ID** | **API Gateway** | **Mandatory** |
|---|---|---|
| **T1-0012** | Reject a Repo interest payment | Y |
| **Description:** | | |
| A counterparty member submits a message to reject the reported interest rate payment. | | |
| **Trigger:** | | |
| - The Repo interest payment has reported successfully.<br>- The status of the Repo interest rate payment is pending awaiting the acceptance from the counterparty. | | |
| **Activity Steps** | | |
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type 191 to reject a Repo interest payment | - The interest payment record rejection submitted successfully.<br>- The record deleted at end of day. |

| | | - Receive a success ack (message type 123 , file identifier 140). |
|---|---|---|
| | | If the message has failed, receive announcement message type number 125. |
| **2** | Record the details of all the response message types. | |

## 6.13 Cancel a pending Repo interest payment – 192

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| **T1-0012** | Cancel a pending Repo interest payment | Y |
| **Description:** | | |
| The initiating member submits a message to cancel the reported interest rate payment. | | |
| **Trigger:** | | |
| <ul><li>The Repo interest payment reported successfully.</li><li>The status of the Repo interest rate payment is pending awaiting the acceptance from the Counterparty.</li></ul> | | |
| **Activity Steps** | | |
| **#** | **Test Step** | **Expected Result** |
| **1** | Submit Message Type 192 to reject a Repo interest payment | - The interest payment record rejection submitted successfully.<br>- The record deleted at end of day.<br>- Receive a success ack (message type 123 , file identifier 140).<br><br>If the message has failed, receive announcement message type number 125. |
| **2** | Record the details of all the response message types. | |

## 6.14 Report a Tri-Party Repo – 193

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0014 | Reporting a Triparty Repo | Y |

| **Description:** |
|---|
| The initiating member submits a message to report a Triparty trade at the JSE. The reported Tri-party will be submitted to Strate for collateral management. A Tri-party can be open-ended or fixed. |

| **Trigger:** |
|---|
| <ul><li>Members have an existing basket in the system.</li><li>The Collateral Basket that the Tri-party will trade on has downloaded as part of reference data at start of trading.</li></ul> |

| **Activity Steps** | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type 193 to report a Tri-Party Repo | - Classic Repo trade submitted successfully.<br>- Receive a success ack (message type 123 , file identifier 140).<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.15 Edit an Unmatched Tri-Party Repo – 194

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0015 | Editing an unmatched Triparty Repo | Y |

| **Description:** |
|---|
| A member submits a message to edit an unmatched Tri-Party Repo where the initiation leg (R1) has not settled yet. After editing an unmatched Tri-Party Repo, the status will become pending – indicating that the request is pending approval from the Counterparty. |

**Trigger:**

- The initiating member has reported the Tri-party Repo trade and message shared with both parties.
- R1 has not settled

| Activity Steps | | |
|---|---|---|
| # | Test Step | Expected Result |
| 1 | Submit Message Type 194 to edit a Tri-Party Repo that has not matched. | - New values of an unmatched Tri-party Repo trade submitted successfully.<br>- Receive a success ack (message type 123 , file identifier 140).<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.16 Cancel an Unmatched Tri-Party Repo – 195

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0016 | Cancellation of an unmatched  Triparty Repo | Y |

**Description:**

A message sent by the Initiating member to cancel changes that are pending approval from the counterparty of an unmatched Tri-Party Repo. The cancellation reason will be displayed to both parties if provided at cancellation.

**Trigger:**

- The Unmatched Tri-party Repo trade successfully submitted, and record sent to the initiating and counterparty members.

| Activity Steps | | |
|---|---|---|
| # | Test Step | Expected Result |
| 1 | Submit Message Type 195 to edit a Tri-Party Repo that has not matched. | - The cancellation of an unmatched Tri-Party Repo saved successfully.<br>- The record deleted end of day. |

| | | - Receive a success ack (message type 123 , file identifier 140) |
|---|---|---|
| | | If the message has failed, receive announcement message type number 125. |
| **2** | Record the details of all the response message types. | |

## 6.17 Accept an Unmatched Tri-Party Repo – 196

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| **T1-0017** | Accepting an unmatched Triparty Repo | Y |

**Description:**

A message sent by the counterparty member to accept an unmatched Tri-Party Repo.

**Trigger:**

- The Unmatched Tri-party Repo trade successfully submitted, and record sent to the initiating and counterparty members.

| **Activity Steps** | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| 1 | Submit Message Type 196 to edit a Tri-Party Repo that has not matched. | - The acceptance of the reported Tri-Party Repo by the Counterparty submitted successfully. <br> - The status = "Pending Strate" and updated to "Strate Accepted" once acknowledgement received from Strate" <br> - Receive a success ack (message type 123 , file identifier 140) <br><br> If the message has failed, receive announcement message type number 125. <br><br> - Status = "Strate Rejected" if Strate rejects the reported Tri-Party Trade. |
| 2 | Record the details of all the response message types. | |

## 6.18 Reject an Unmatched Tri-Party Repo – 197

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0018 | Reject an Unmatched Tri-party Repo | Y |

| Description: |
|---|
| Member submits a message to reject an unmatched Tri-party Repo Trade. |

| Trigger: |
|---|
| <ul><li>The Tri-Party Repo reported successfully, and the message shared with both initiator and counterparty.</li></ul> |

| Activity Steps | | |
|---|---|---|
| # | Test Step | Expected Result |
| 1 | Submit Message Type 197 to reject an Unmatched Tri-Party Repo trade. | - Tri-Party Repo trade rejection submitted successfully.<br>- Record deleted end of day.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| 2 | Record the details of all the response message types. | |

## 6.19 Edit a matched Tri-Party Repo – 198

| Test Case ID | API Gateway | Mandatory |
|---|---|---|
| T1-0019 | Edit a matched Tri-party Repo | Y |

| Description: |
|---|
| - Member submits a message to edit a matched Tri-party Repo Trade.<br>- The member will be able to request the following requests:<br><br>    - Terminate a Tri-party Repo<br>    - Mature tri-party repo trades earlier than originally intended<br>    - Edit the repo rate previously captured on Tri-Party repo<br>    - Amend the Principal/Consideration amount previously captured on tri-party |

| Trigger: | | |
|---|---|---|
| • The Tri-party Repo has matched but not committed. | | |

| Activity Steps | | |
|---|---|---|
| **#** | **Test Step** | **Expected Result** |
| **1** | Submit Message Type 198 to amend of a matched Tri-party Repo trade as per the allowed action. | - Tri-Party Repo trade edit message submitted successfully.<br><br>- Receive a success ack (message type 123 , file identifier 140)<br><br>If the message has failed, receive announcement message type number 125. |
| **2** | Record the details of all the response message types. | |

# 7. Standard Conformance Messages

Below is a table with all messages that are currently in the API.

| Message Type No | File Identifier | Message |
|---|---|---|
| **Login** | | |
| 0 | | Login |
| 84 | | HeartBeat |
| 88 | | Change password |
| 4 | | Logout |
| **Data Downloads** | | |
| 36 | 10 | Unmatched |
| 36 | 2 | Instruments |
| 36 | 3 | Contract Dates |
| 36 | 4 | Strike Data |
| 36 | 16 | MTM |
| 36 | 1 | Market display data |
| 36 | 5 | Active orders |
| 36 | 7 | Completed Orders |
| 36 | 8 | Deals |
| 36 | 9 | Positions |
| 36 | 14 | Dealer data |
| 36 | 12 | Client data |
| 36 | 15 | Member data |
| 36 | 19 | Skew data |
| 36 | 24 | Risk limits |
| 36 | 25 | Daily rates |
| 36 | 38 | Message type data |

| 36 | 61 | Tripartite setup |
|----|-----|------------------|
| 36 | 63 | Custom Future |
| 36 | 64 | Trace deal |
| 36 | 65 | Clearing member data |
| 36 | 67 | Message Subscription |
| 36 | 78 | Group Definition |
| 36 | 79 | Fee Data |
| 36 | 81 | Fee Calculation |
| 36 | 83 | Transfer client member data |
| 36 | 82 | Transfer client data |
| 36 | 84 | Transfer member data |
| 36 | 85 | Transfer member Clearing member data |
| 36 | 70 | Daily Account Summary |
| 36 | 66 | Client Detail |
| 36 | 89 | Exchange Announcements |
| 36 | 94 | Options Traded |
| 36 | 100 | Early Valuations |
| 36 | 89 | Exchange Announcements |
| 36 | 101 | Divided Payments |
| 36 | 102 | Client Member Margin Multiplier Data |
| 36 | 103 | First trade of the day |
| 36 | 107 | Options concentration risk |
| **Subscription** | | |
| 99 | | Future Subscription |
| 67 | | Option Subscription |
| 42 | | Unsubscribe |

| | | |
|---|---|---|
| 7 | | Change Dealer Message Subscription |
| 142 | | Subscribe to futures closeout publishing iterations |
| 3 | | Re-request depth |
| **Order Entry** | | |
| 56 | | Insert a bid/offer order for a single stock future |
| 56 | | Insert a bid/offer order for an index future |
| 56 | | Insert a bid/offer order for a dividend neutral future |
| 56 | | Insert a bid/offer order for a dividend future |
| 56 | | Insert a bid/offer order for a call option |
| 56 | | Insert a bid/offer order for put option |
| 56 | | Insert a bid/offer order for a spread |
| 56 | | Insert a bid/offer order for a split |
| **Order Management** | | |
| 8 | | Suspend Order (flag set to S) |
| 8 | | Delete Order (flag set to D) |
| 15 | | Delete suspended Order |
| 27 | | Resubmit Order |
| 85 | | Cancel Active Order |
| 104 | | Reduce Active Order |
| 118 | | Edit suspended order |
| 160 | | Edit active order by order sequence number |
| 161 | | Edit active order by user reference number |

| | | |
|---|---|---|
| 162 | | Cancel order by user reference number |
| **Report Only Messages** | | |
| 29 | | ROT with matching details and automatic matching (flag set to 'must confirm rot's') |
| 29 | | ROT with matching details and manual accept (flag set to 'must confirm rot's') |
| 26 | | Edit Report only deal |
| 30 | | Unmatched deal deletes |
| 40 | | Unmatched deal accept |
| **Entity Management** | | |
| 102 | | Create Client |
| 56 | | Load order on newly created client |
| **Deal Management** | | |
| 31 | | Option Exercise |
| 33 | | Option Abandon |
| 22 | | Split deal |
| 24 | | Cumulate Deal |
| 64 | | Assign Deal – To a client |
| 64 | | Assign Deal – To a member |
| 62 | | Tri-part Deal Entry |
| 115 | | Roll Position Forward |