

CHESS EXTERNAL TESTING GUIDELINES FOR mFUND PRODUCT ISSUER SETTLEMENT PARTICIPANT (PISP)

User Acceptance Testing (UAT)

**AUSTRALIAN SECURITIES
EXCHANGE**

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General Information

Overview

The External User Testing Environment has been designed to enable users to create and test scenarios that occur in CHESS Production.

All testing should be undertaken in conjunction with referencing the External Interface Specification (EIS) manual and the ASX Settlement Procedure Guidelines (APG). These manuals are available via www.asxonline.com.

This document is designed to provide details specific to the External User Testing Environment where usage may differ to Production and therefore will not be included in the EIS and APG.

CHESS 10 mFund enhancements 2018

This document has been updated to include enhancements relating to CHESS 10. The updates were live from Monday 12 November 2018.

Link to project website

https://www.asxonline.com/content/asxonline/public/landing-pages/CHESS_10.html

Contact Details

To request support please email chesshelp@asx.com.au or contact ASX Post Trade Operations on 1800 814 051. Please include the word “mFund TESTING – AIC XXXXX” in your email subject.

Support and System Availability

The system is available from 08.30 to 23.55(Sydney time)

Support is available from 09.00 to 17.00 (Sydney time) business days.

Note, processing of requests will be on a best endeavours basis

Settlement Process / End of Day (EOD) Process

mFund, funds cut off to accept orders prior to settlement is 11.45am.

Settlement process commences at 12.00pm.

EOD commences at 23.59pm.



Test Kit Maintenance

A reset will remove the following from your test kit:

- holdings
- outstanding obligations

To request a reset please email chesshelp@asx.com.au.

Please note that users are requested to only use issuer/security codes and PIDs within their test kit. This will be monitored by system support. This will ensure the test kits can be reset more efficiently and successfully.

Connectivity

Network Details

Refer to allocated test kit document for confirmation of CHESS test UIC and Port number assigned to your test kit.

The test kit document will provide one of the following CHESS UIC and Port numbers.

UAT XP1	CHESS Test UIC: 00044	Port: 4207
UAT XP2	CHESS Test UIC: 00040	Port: 4210
RTE	CHESS Test UIC: 00044	Port: 4206 (CHESS Release Environment)

IP Address:

Optus	203.202.049.019
Radianz	206.190.104.215
ASXiVPN	203.006.252.010
Telstra	029.008.001.003

Encryption / Security Keys

Encryption is not required in the External User Testing Environment. Each test kit will allow users to connect with or without encryption. To test with encryption, the below listed security keys should be utilised.

Type 1 Keys

KVC

Shipping Key	774E 1195 C539 93F5 CF09 28D1 909F 5F6F	6D80E2
MKX	B368 05F0 7581 D2E1 3C5A 4DBB 73EF 1268	8CB175
MKY	EB93 9A5B 8E23 7EC5 95E7 8410 E9D1 839F	8D5651

Type 2 Keys

Shipping Key

part 1	C280 912A 20DA 1375 68B5 0E4A 0485 F8D0	255AF8
part 2	B5CE 80BF E5E3 8080 A7BC 269B 941A A7BF	184929
MKX	B368 05F0 7581 D2E1 3C5A 4DBB 73EF 1268	8CB175
MKY	EB93 9A5B 8E23 7EC5 95E7 8410 E9D1 839F	8D5651

Type 3 Keys –

Shipping Key

part 1	C280 912A 20DA 1375 68B5 0E4A 0485 F8D0	255AF8
part 2	B5CE 80BF E5E3 8080 A7BC 269B 941A A7BF	184929
MKX	39BF 9149 2392 A36B 0DFA EABC 2632 FAB3	
MKY	155B 9098 D000 A1E4 83AB B626 385C 532E	



Test Kit Setup

Test kit details are supplied in a separate document at the time of test kit creation and include:

- AIC – Access Identification Code
- PIDs – Participant Identification Codes
- Issuer and Security codes (Fund codes)
- Default Payment Entrepot HINs
- Payment Facilities
- Network details

Message Responses

Messages are responded to the same way as production, i.e. the same applications are used to process message responses. In situations where another party is required to complete a transaction there are additional processors to simulate these parties. Refer to automatic processor information below.

Automatic Turnaround Processor

Enables mFund Facility Users to conduct one sided testing, however there is no Automatic Turnaround Processor for an mFund PISP/Registry at present.

Notification of Changes to CHES Settlement Cut-Off

CHES Event Notification (542) message provides information to the change of settlement cut-off times. These messages can be arranged upon request by emailing CHEShelp@asx.com.au.

All Participants will receive 542 messages in the event of change to settlement cut-off notification request.

Setup Requirements

To start mFund testing you will require mFund testing capability. To arrange to use an existing test kit and have one of the PID's converted to an mFund ready PID or to have a new mFund test kit allocated please send an email to chesshelp@asx.com.au with mFund testing in the subject heading.

PTOps will send you a user test kit form, upon application to become a PISP. Email chesshelp@asx.com.au if you need further assistance when completing the form.

These components may be part of an existing test kit (with a PID converted to mFund) or a new mFund test kit.

- mFund Participant PID
- mFund security code
- mFund PISP PID
- All Payment facilities and HIN's associated with them will be provided by CHESSHELP automatically in your test kit.

To begin mFund testing:

Ask PTOps to create Sponsored HIN's using the Settlement Participant PID's assigned to your test kit. To create holdings an Application request or Unit Adjustment should be sent. Details on how to complete Applications and Unit Adjustments can be found in this document.

APG – section 28 mFund Settlement Service

<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>



Applications

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.6
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Any Settlement Participant initiated message testing can be executed by requesting ASX Post Trade Operations (PTOps) to act as the Settlement Participant with details you provide.

Users completing Application testing where PTOps are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au;

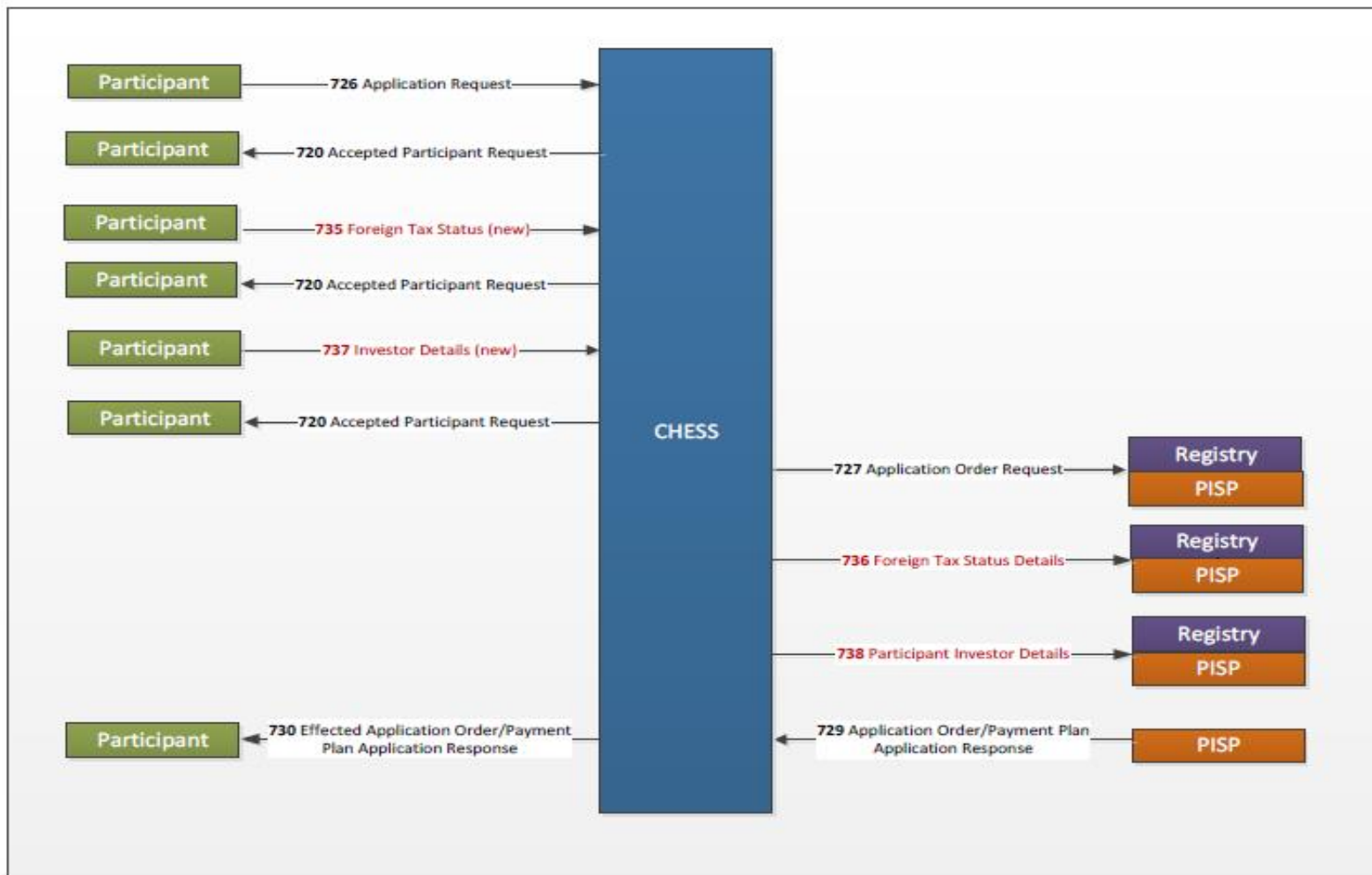
1. Specifying that the user wishes to act as a PISP to complete testing.
2. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
3. Outlining details of expected message responses for each test (including details for the MT726, MT735, MT737)

Please use the tables in the following pages to advise PTOps your testing outcome (e.g. acceptance, rejection).

Note: Please ensure you contact PTOps to discuss timeframes and availability for tailored testing. Test plans may be required if bulk testing is to be completed.

The Application Process

The following section describes the message suite relating to the processing of Initial and Subsequent application transactions.



Application Matrix: Initial / Subsequent

Initial Application Request

Where an investor submits an mFund application request for a particular mFund product for the first time or where a holding is moving from zero units, this constitutes an 'Initial' application. For an Initial Application the **matching MT735 Foreign Tax Status and MT737 Investor Details message will need to be sent with linking transaction ID of the MT726 Initial Application message.**

Subsequent Application Request

Subsequent requests for units in the same fund do not require the same level of detail.

726 Application Message

Field Name	Initial Application	Subsequent Application
Fund Code	M	M
Fund Amount	M	M
HIN	M if broker sponsored	M if broker sponsored
Transaction ID	M	M
AML/CTF Flag	M	M
Current PDS Provided	M	M
PDS Issue Date	M	M
Initial Application	M must be 'Y'	M must be 'N'
Note	Must be accompanied by: • MT735 Foreign Tax Status • MT737 Investor Details	

Application Testing, PISP Order Response

When a PISP responds to an Application order request, the response may be an acceptance or rejection. Where a rejection is returned only one Message Type (MT) 729 CHESS message response is required. **Where acceptance is returned, not all order related data may be available to the PISP, necessitating that the MT 729 CHESS message be sent to CHESS multiple times to build up a completed transaction data set.**

This table details what data is required to be populated for these multiple responses to achieve order completion.

(M) Mandatory and (O) Optional are used to denote whether the value is required.

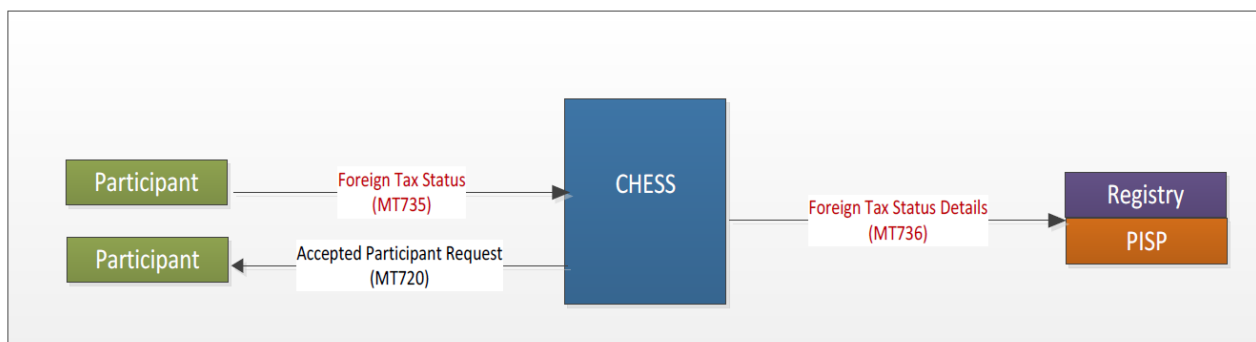
MT729 Application Order Response

Field Name	Initial Application Response	Subsequent Application Response
Fund Code	M	M
APIR Code	O	O
Fund Amount	M	M
HIN	M if HIN on request	M if HIN on request
PID	M	M
Processing Timestamp	M	M
Transaction Status	M	M
Transaction ID	M	M
Security Holder Reference Number	M if SRN on request or populate where only registration details passed through on the MT726 request	M if SRN on request
Rejected Order Reason	M where rejected	N/A
Origin Transaction ID	M	M
Unit Price	O	M
Order Reference	O	O
Order Type	M	M
Number of Units	O	M
Unit Pricing Date	M where accepted	O
Fees	O	O
Unit Allotment Date	M where acceptable	O

Foreign Tax Status Enhancements

This message suite for the capture of investor details may be used in the following scenarios;

- Where an investor submits an mFund application request for a particular mFund product for the first time where a CHESS holding is moving from 0 units (an 'Initial' application).
- Where an investor's details have changed. New investor details will override what has previously been transmitted.
- Where the backfill of details for existing investors is required to be provided.
- Where a CHESS to CHESS HIN transfer is requested.



Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Any Settlement Participant initiated message testing can be executed by requesting ASX Post Trade Operations (PTOs) to act as the Settlement Participant with details you provide.

Users completing Foreign Tax Status testing where PTOs are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au;

1. Specifying that the user wishes to act as a PISP to complete testing.
2. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
3. Outlining details of expected message responses for each test

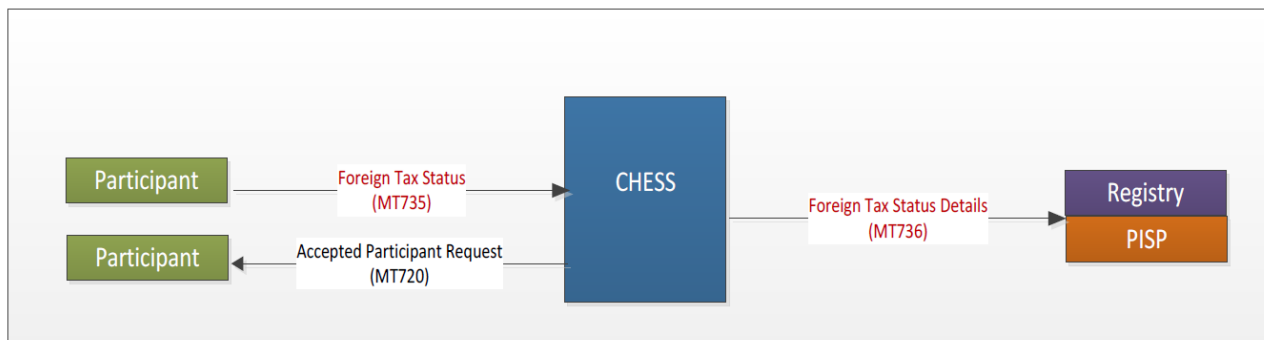
Please use the tables in the following pages to advise PTOs your testing outcome (e.g. acceptance, rejection).

Note: Please ensure you contact PTOs to discuss timeframes and availability for tailored testing. Test plans may be required if bulk testing is to be completed.

Investor Details Enhancements

This message suite for the capture of investor details may be used in the following scenarios;

- Where an investor submits an mFund application request for a particular mFund product for the first time where a CHESS holding is moving from 0 units (an 'Initial' application).
- Where an investor's details have changed. New investor details will override what has previously been transmitted.
- Where the backfill of details for existing investors is required to be provided.
- Where a CHESS to CHESS HIN transfer is requested.



Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Any Settlement Participant initiated message testing can be executed by requesting ASX Post Trade Operations (PTOs) to act as the Settlement Participant with details you provide.

Users completing Investor Detail testing where PTOs are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au;

4. Specifying that the user wishes to act as a PISP to complete testing.
5. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
6. Outlining details of expected message responses for each test

Please use the tables in the following pages to advise PTOs your testing outcome (e.g. acceptance, rejection).

Note: Please ensure you contact PTOs to discuss timeframes and availability for tailored testing. Test plans may be required if bulk testing is to be completed.



Redemptions

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.6
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Any Settlement Participant initiated message testing can be executed by requesting ASX Post Trade Operations (PTOps) to act as the Settlement Participant with details you provide.

Users completing Application testing where PTOps are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

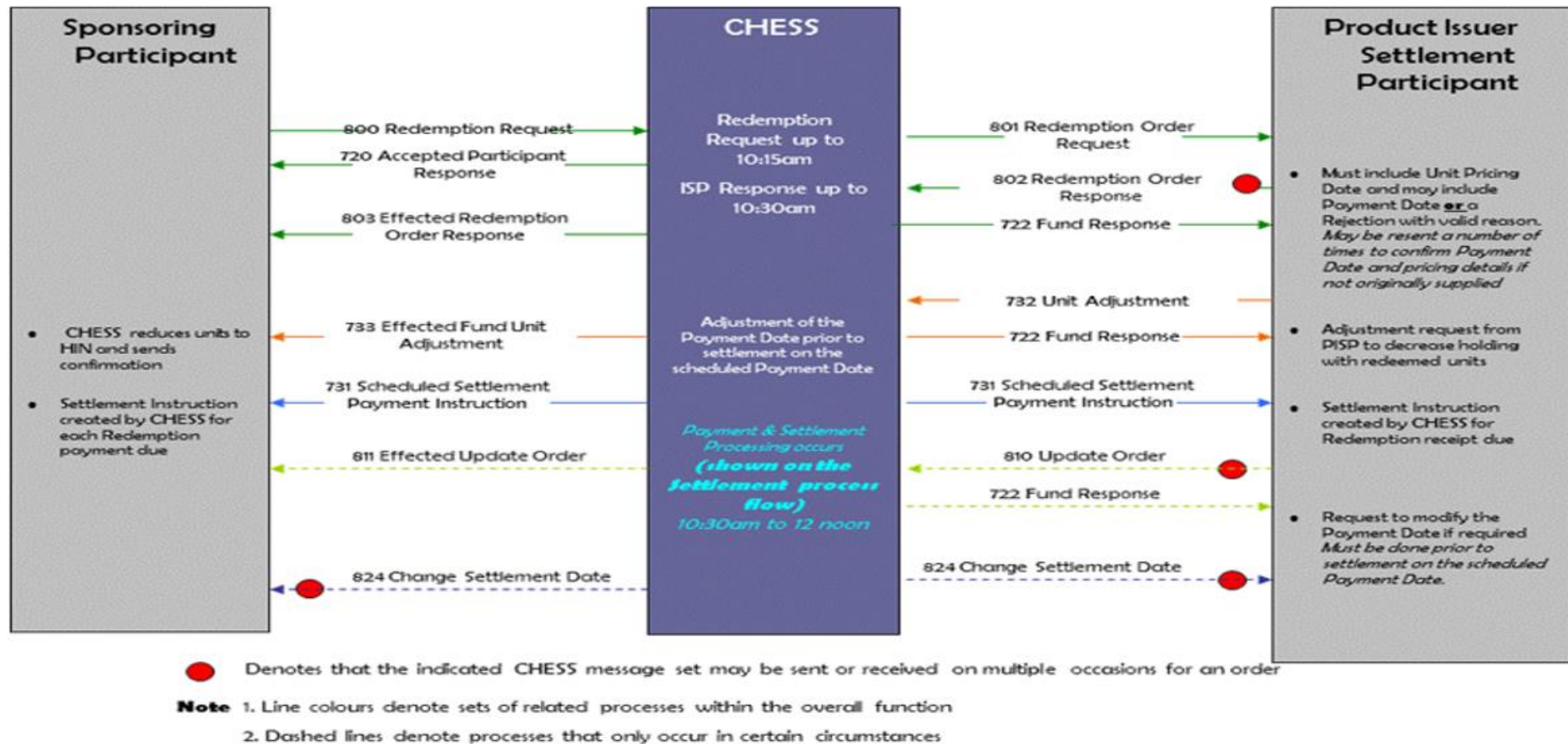
7. Specifying that the user wishes to act as a PISP to complete testing.
8. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
9. Outlining details of expected message responses for each test

Please use the tables in the following pages to advise PTOps your testing outcome (e.g. acceptance, rejection).

Note: Please ensure you contact PTOps to discuss timeframes and availability for tailored testing. Test plans may be required if bulk testing is to be completed.

The Redemption Process

The following section describes the message suite relating to the processing of redemption transactions. The diagrams show the message interactions between the participants involved. Additionally, the data within each message is shown and the mandatory – optional attribute is highlighted.



Redemption Testing, requires PTOps response

The processing rules are as follows;

Full Redemption	Fund Amount	Number of Units	CHESS Accept or Reject
Y	Y	Y	Reject
Y	N	Y	Reject
Y	Y	N	Reject
Y	Not populated	Not populated	Accept
N	Y	Y	Reject
N	N	N	Reject
N	Y	N	Accept
N	N	Y	Accept

Redemption: order response criteria

When a PISP responds to a Redemption order request, the response may be an acceptance or rejection or the order may be placed 'On-Hold'. Where a rejection is returned only one MT 802 CHESS message order response message is required. **Where acceptance is returned, not all order related data may be available to the PISP, necessitating that the MT 802 CHESS message be sent to CHESS multiple times to build up a completed transaction data set.**

This table details what data is required to be populated for these multiple responses to achieve order completion.

(M) Mandatory and (O) Optional are used to denote whether the value is required.

Field Name	Initial Redemption Response	Subsequent Redemption Response
Fund Code	M	M
APIR Code	O	O
Fund Amount	M if amount in 800 request	M if <u>no</u> amount in 800 request
HIN	M if HIN on request	M if HIN on request
PID	M	M
Processing Timestamp	M	M
Transaction Status	M	M
Hold Reason	M where request put on-hold	N/A
Transaction ID	M	M

Field Name	Initial Redemption Response	Subsequent Redemption Response
Rejected Order Reason	M where rejected	N/A
Origin Transaction ID	M	M
Unit Price	O	M
Order Reference	O	O
Income	O	O
Tax Deducted	O	O
Nett or Gross	M	O
Number of Units	M if amount in 800 request	M if <u>no</u> amount in 800 request
Unit Pricing Date	M where accepted	O
Fees	O	O
Payment Date	M where acceptable	O

A Redemption order request is deemed to be complete when all mandatory data via the Subsequent response is complete, payment through Batch Settlement is complete and unit redemption has occurred.

Switch of Funds

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.6
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Switch testing can be executed by requesting ASX Post Trade Operations (PTOps) to act as the Participant with details you provide.

Users completing Switch testing where PTOps are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

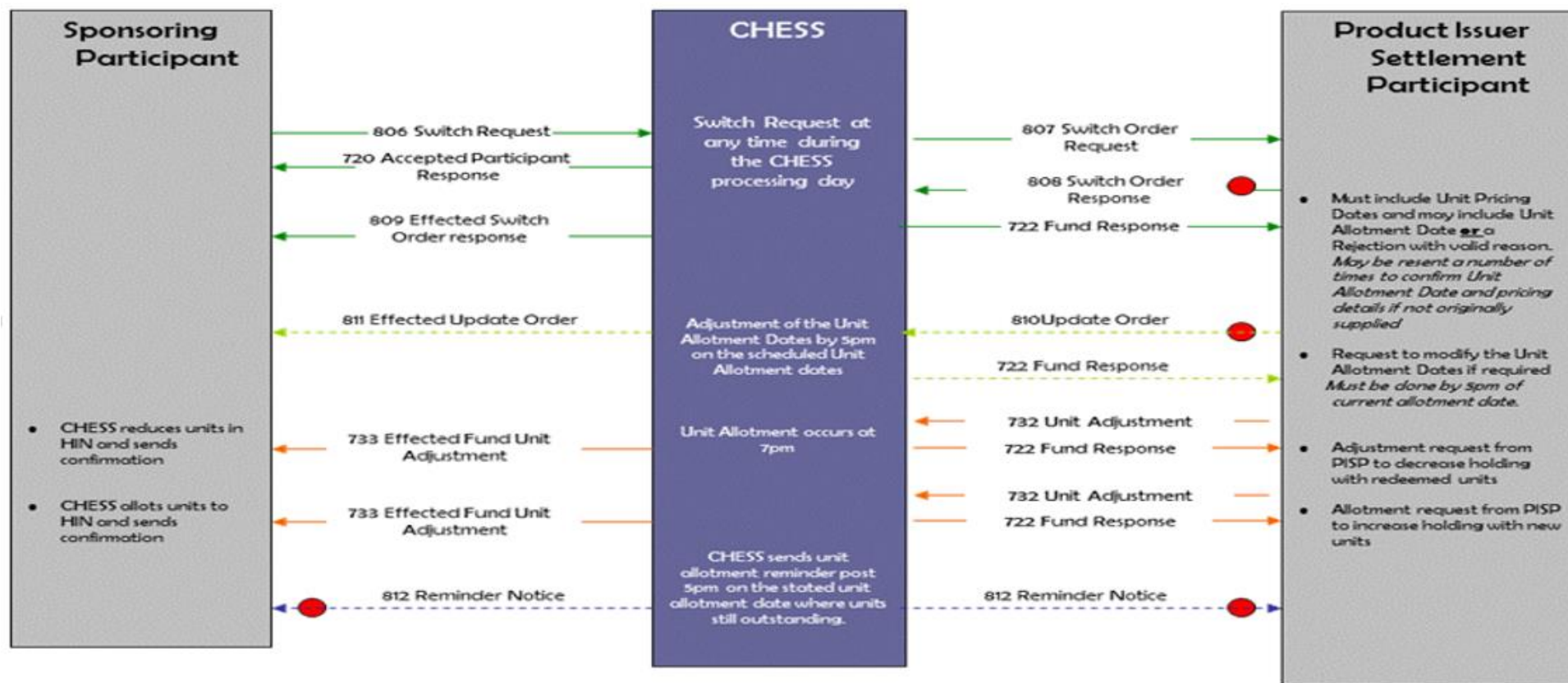
1. Specifying that the user wishes to act as a PISP to complete testing.
2. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
3. Outlining details of expected responses should be supplied in an email to ASX Settlement Operations for each test

Please use the tables in the following pages to advise ASX Settlement Operations your testing outcome (e.g. acceptance, rejection)

Note: Please ensure you contact PTOps to discuss timeframe and availability for tailored testing. Test plans may be required if bulk testing is to be completed.

The Switch Process

The following section describes the message suite relating to the processing of switch transactions. The diagrams show the message interactions between the participants involved. Additionally the data within each message is shown and the mandatory – optional attribute is highlighted.



● Denotes that the indicated CHESS message set may be sent or received on multiple occasions for an order

Note 1. Line colours denote sets of related processes within the overall function

2. Dashed lines denote processes that only occur in certain circumstances



Switches: completion criteria

The processing rules are as follows;

Full Redemption	Specific Fund Amount	Specific Units Redeemed	CHESS Accept or Reject
Y	Y	Y	Reject
Y	N	Y	Reject
Y	Y	N	Reject
Y	Not populated	Not populated	Accept
N	Y	Y	Reject
N	N	N	Reject
N	Y	N	Accept
N	N	Y	Accept

When a PISP responds to a Switch order request, the response may be an acceptance or rejection or the order may be placed 'On-Hold'. Where a rejection is returned only one MT 808 CHESS message is required. **Where acceptance is returned, not all order related data may be available to the PISP, necessitating that the MT 808 CHESS message be sent to CHESS multiple times to build up a completed transaction data set.**

This table details what data is required to be populated for these multiple responses to achieve order completion.

(M) Mandatory and (O) Optional are used to denote whether the value is required

MT808 Switch Order Response

Field Name	Initial Redemption Response	Subsequent Redemption Response
Redemption Fund Code	M	M
Redemption APIR Code	O	O
Application Fund Code	M	M
Application APIR Code	O	O
Fund Amount	M if amount in 806 request	M if amount in 806 request
HIN	M if HIN on request	M if HIN on request
PID	M	M
Processing Timestamp	M	M
Transaction Status	M	M
Hold Reason	M where request put on-hold	N/A
Transaction ID	M	M

Field Name	Initial Redemption Response	Subsequent Redemption Response
Rejected Order Reason	M where rejected	N/A
Origin Transaction ID	M	M
Order Reference	O	O
Income	O	O
Tax Deducted	O	O
Fees	O	O
Nett or Gross	M	O
Application Unit Price	O where accepted	M
Application Unit Pricing Date	M where accepted	O
Application Units	O where accepted	M
Unit Allotment Date	M where accepted	O
Redemption Unit Price	O	M
Redemption Unit Pricing Date	M where accepted	O
Units Redeemed	M if in 806 request	M if no units redeemed in 806 request

A switch order request is deemed to be complete when all mandatory data via the Subsequent Response is complete, unit redemption in the Redemption Fund Code.

Order Maintenance

Switch testing can be executed by requesting ASX Post Trade Operations (PTOps) are to act as the Settlement Participant with details you provide.

Users completing Order Maintenance where ASX Settlement Operations are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

1. Specifying that the user wishes to act as a PISP to complete testing.
2. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
3. Outlining details of expected responses should be supplied in an email to ASX Settlement Operations for each test

Please use the tables in the following pages to advise Settlement Operations of your testing outcome (e.g. acceptance, rejection).

Note: Please ensure you contact ASX Settlement Operations to discuss timeframe and availability for tailored testing. Test plans may be required if bulk testing is to be completed.

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.6
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Cancellation of Order

For a Cancellation of Order request please email chesshelp@asx.com.au and request an Application, Redemption or Switch order to be sent so it may be cancelled by you acting as the PISP.

To act as a PISP and cancel an order the mandatory fields to be completed on the MT 810 CHES message are;

- PID
- Transaction Status – must be C (Cancel Order)
- Cancel Reason – must be OCF
- The Target Transaction Id – (Original Transaction Id of Application, Redemption or Switch)
- Do not populate Rejected Order Reason
- The Order Type – APP (Application), RED (Redemption) and SWI (Switch)
- The Unit Allotment Date and Payment Date may also be included if required

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.

Cancellation of an 'On Hold' Redemption or Switch Order

For a Cancellation of Order request please email chesshelp@asx.com.au and request a Redemption or Switch order to be sent then respond with an 'On Hold' status then an MT 804 on hold cancellation request CHES message must be sent by the Participant to the PISP. Then it may be cancelled by the PISP sending an MT 810 CHES message.

To act as a PISP and cancel an 'On-Hold' order the mandatory fields to be completed for a response for cancellation of an "on hold" Redemption or Switch to be completed on the MT 810 CHES message are;

- PID
- Transaction Status – must be A (Accepted) or R (Rejected)
- Do not populate Cancel Reason
- The Target Transaction Id – (Original Transaction Id of Application, Redemption or Switch)
- Rejected Order Reason must be populated where request is rejected (refer to CHES Message Field formats for Rejected Order Reason for valid allowable values)
- The Order Type –RED (Redemption) and SWI (Switch)
- The Unit Allotment Date and Payment Date may also be included if required.

Update Order Unit Allotment Date / Payment Date

For an update of the Order Unit Allotment Date or Payment Date please email chesshelp@asx.com.au and request an Application, or Switch order be sent for a change to the Unit Allotment date or request a Redemption order for an update to the payment date.

The mandatory fields to be completed for an Update Order Unit Allotment Date/Payment Date MT 810 CHESS message are;

- PID
- Transaction Status – must be U (Update Payment or Unit Allotment date)
- Transaction Id
- The Target Transaction Id – (Original Transaction Id of Application, Redemption or Switch)
- The Order Type – APP (Application), RED (Redemption) and SWI (Switch)
- The Revised Unit Allotment Date and or Revised Payment Date.

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.

Miscellaneous Adjustment

The Miscellaneous Adjustment is not applicable for Issuer Sponsored Holdings. Miscellaneous Adjustments are usually generated by the PISP due to pricing errors. To send a Miscellaneous Adjustment the PISP should elect a HIN with the holding they wish to adjust and send an MT 732 – Unit Adjustment CHESS Message.

The mandatory fields to be completed for a miscellaneous adjustment MT 732 CHESS message are;

- Fund Code
- HIN
- PID
- Fund Reason – must be ADJ (Adjustment)
- Increase or Decrease
- Transaction Id
- Origin Transaction Id – Original Transaction Id of original MT 732 CHESS message
- Adjustment Units – How many units to be adjusted.

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.



Order Reversal

This applies to Applications, Redemptions and Switches. For a PISP initiated Order Reversal the PISP must ensure that an order has completed and then a Unit Adjustment then Order Reapplication is completed. **In the case of a Switch four legs of the transaction must occur for a complete Switch Order Reversal.**

To test an Order Reversal and Order Reapplication the PISP must first complete the MT 845 CHESS message Unit Reversal Notifications email chesshelp@asx.com.au and ask for an Application, Redemption or Switch to be sent and completed.

The mandatory fields to be included must be for both the Reversal and Reapplication. The details are;

- Fund Code
- HIN
- PID
- Transaction Status must be V (for the reversal leg) and P (for the reapplication leg)
- Transaction Id
- Original Transaction Id
- Unit Price
- Order Type – APP (Application), RED (Redemption) or SWI (Switch)
- Number of Units this must be > 0
- Unit Pricing Date – Applies to Reapply only and must be a valid business date

Following the Unit Reversal Notification the PISP must complete an MT 732 CHESS message - Unit Adjustment (Only applicable to holdings on HIN's)

The mandatory fields to be included must be for both the Reversal and Reapplication. The details are;

- Fund Code
- HIN
- PID
- Fund Reason must be ORV (Order Reversal) or ORP (Order Reapply)
- Increase or Decrease¹
- Transaction Id
- Original Transaction Id
- Adjustment Units

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.

¹ For Transaction Status "V" (Reversal) Increase or Decrease must be "-" (for Application or Switch Application) or "+" (for Redemption or Switch Redemption) for the first iteration of this message. For Transaction Status "P" (Reapply) Increase or Decrease must be "+" (for Application or Switch Application) or "-" (for Redemption or Switch Redemption) for the second iteration of this message.

Distributions and Regular Payment Plans

Corporate Action testing can only be simulated by the PISP. Automated responses are not available.

Users completing Corporate Action testing where ASX Post Trade Operations (PTOps) are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

1. Specifying that the user wishes to act as a PISP to complete testing.
2. Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
3. Outlining details of expected responses should be supplied in an email to ASX Settlement Operations for each test

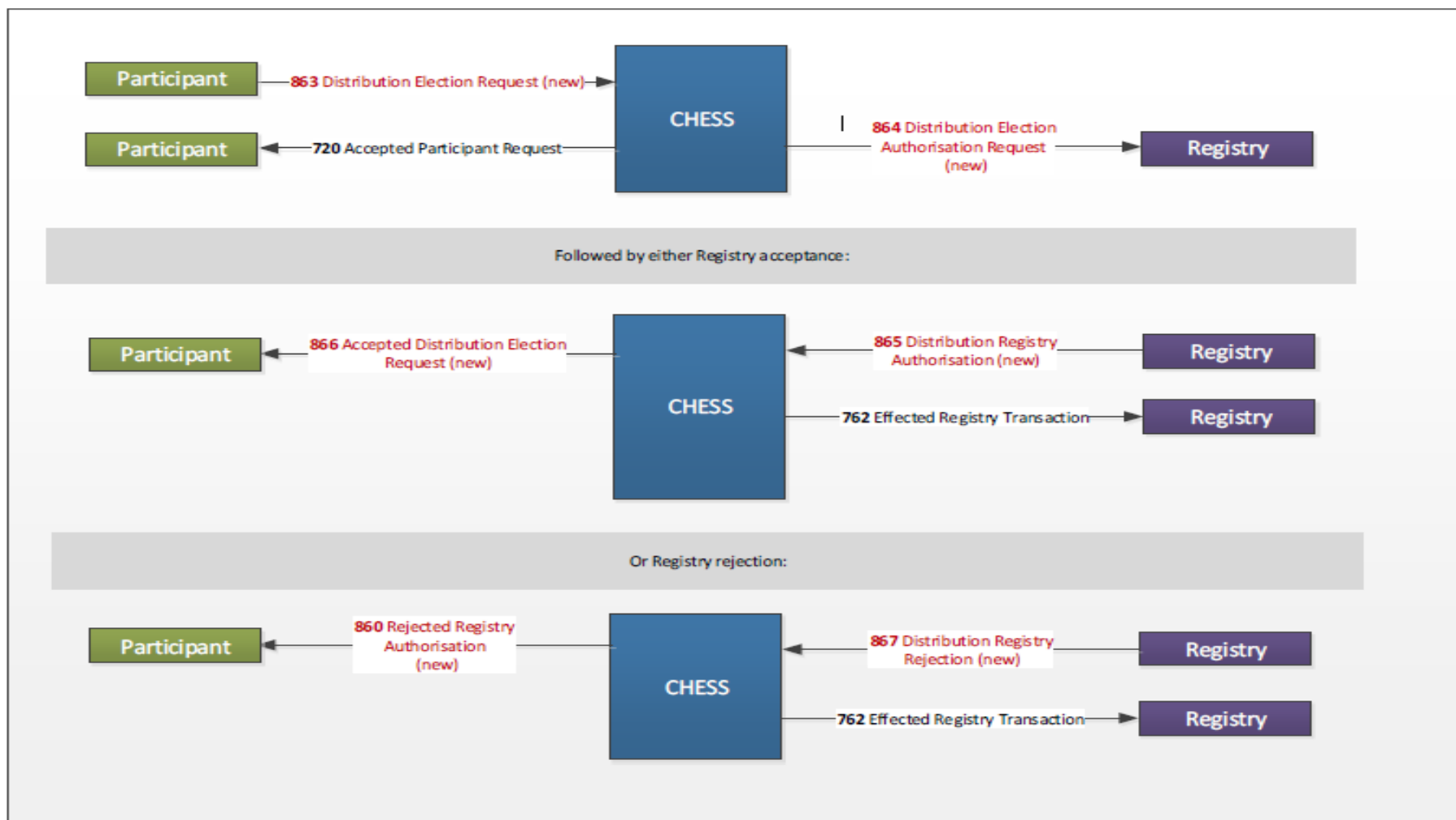
Please use the tables in the following pages to advise Settlement Operations of your testing outcome (e.g. acceptance, rejection).

Note: Please ensure you contact ASX Settlement Operations to discuss timeframe and availability for tailored testing. Test plans may be required if bulk testing is to be completed.

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.6
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Message Flow - the following diagram details DRP message flows:



Distribution Election Request

The following tables show valid DRP election preference combinations, all other combinations will be rejected:

Holder DRP Preference	DRP Units Participating	Bank Details
F (full)	Not applicable	Not applicable
P (partial)	Mandatory	Mandatory
N (cash)	Not applicable	Mandatory

Distribution Election Request MT864

In order to receive an MT864, please provide the below mandatory fields for PTOps to act as the mFund broker participant (MT863).

- Fund Code
- HIN
- Current PDS Provided
- PDS Issue Date
- Transaction Id
- mFund Broker PID from your test kit

Distribution Reinvestment Plans (DRP)

The Distribution Reinvestment Plan (DRP) consists of two parts:

- Distribution Reinvestment Advice
- Distribution Reinvestment Advice – Allocation of Fund Units

The details to send in the Distribution Reinvestment Advice MT 817 CHES message are;

- Fund Code
- Gross DRP Amount
- HIN
- PID
- Additional Units – Amount of units to apply
- Unit Price
- Units Participating – Elected number of fund units eligible for distribution payments
- Unit Allotment Date
- Record Date

The details to send in the Distribution Reinvestment Advice – Allocation of Fund Units MT 732 CHES message are;

- Fund Code
- HIN
- PID
- Fund Reason must be 'DRP'
- Increase or Decrease must be '+'
- Transaction Id
- Origin Transaction Id
- Adjustment Units – The number of units described for Fund adjustments

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.

Regular Payment Plans (RPP)

A PISP will advise broker sponsored investors of regular payment plan details previously arranged between a broker sponsored investor (HIN) and PISP.

- The Payment Plan consists of two parts.
- Payment Plan Application
- Payment Plan – Allocation of Fund Units

The mandatory fields in the Payment Plan Application MT 729 CHESS message are;

- Fund Code
- Fund Amount
- HIN
- PID
- Processing Timestamp
- Transaction Status – must be 'A' for accepted
- Transaction Id
- Original Transaction Id
- Order Type must be 'RPP' (Regular Payment Plan)

The mandatory fields in the Payment Plan – Allocation of Fund Units MT 732 CHESS message are;

- Fund Code
- HIN
- PID
- Fund Reason – must be 'RPP' (Regular Payment Plan)
- Increase or Decrease – must be '+'
- Transaction Id
- Origin Transaction Id
- Adjustment Units – The number of units described for Fund adjustments

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.

Income Statement Selection Annual and Periodic

Participants can request a Periodic Income Statement and or an Annual Income Statement for a specific HIN by sending an MT869 Income Statement Request with Income Statement Report Type either (A) Annual or (P) Periodic.

Where a periodic or annual income statement is requested, only the last distribution payment details or last end of financial year summary distribution information will be made available to the Settlement Payment of the Registry.

Periodic Income Statement

A Settlement Participant may select to have a Periodic Income statement as a regular standing report (applies to periodic only).

It should be noted that a Settlement Participant only has the ability to cancel a standing Periodic Income Statement report. On demand report requests cannot be cancelled by a Settlement Participant.

Testing Requirements

Annual and Periodic testing for a PISP/Registry can only be executed, by asking PTOps to act as the mFund Broker Participant. Automated responses are not available.

You will need to ensure that you contact PTOps by email chesshelp@asx.com and state that you, or your organisation, wish to perform tailored testing with custom responses. Your request must include a test summary, indicative timeframe, and expected volumes in order for PTOps to determine any necessary resourcing.

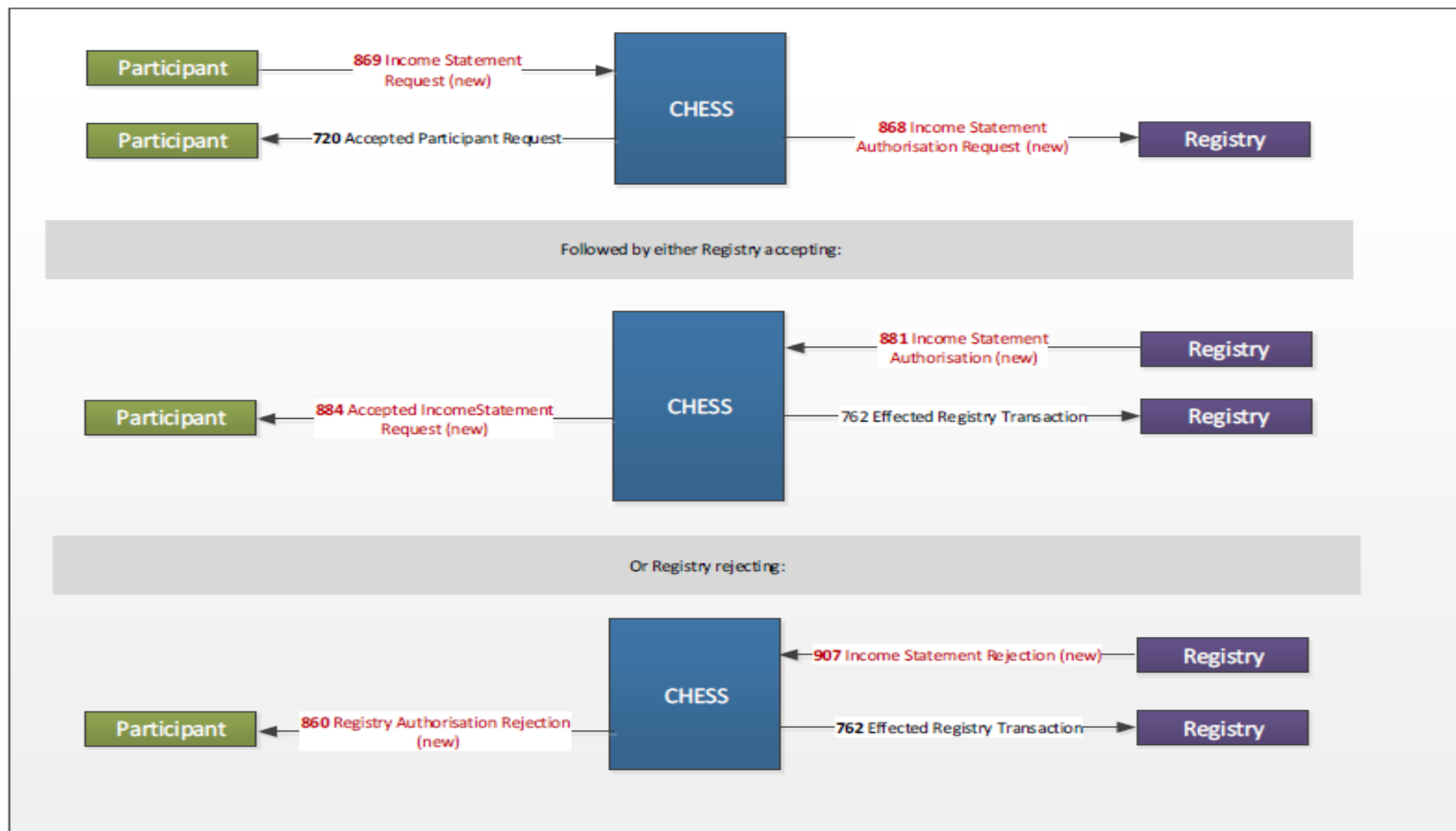
Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.7
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

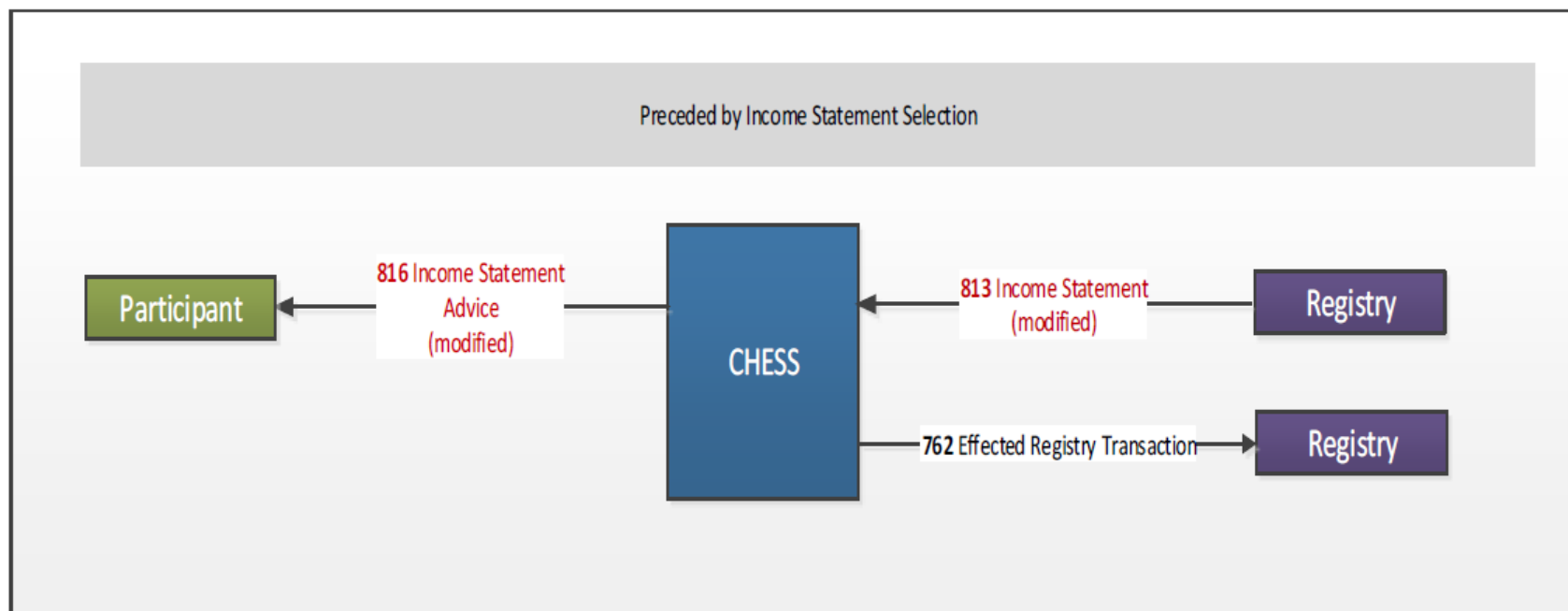


Message Flow - the following diagram details for an Income Statement message flow for both Annual and Periodic:

Please note that the end messages are not listed in the below diagram. Refer to EIS Guidelines section 5



Message Flow - the following diagram details for a PERIODIC Income Statement message flow in response to an accepted periodic Income Statement request.



The following table shows the valid combinations for an MT869 Income Statement request, all other combinations will be rejected

Income Statement Report Type	Income Statement Report Frequency	Income Statement Cancellation
A (Annual)	A (on demand)	space
P (Periodic)	A (on demand) or S (standing)	space
P (Periodic)	space	Y

Income Statement Authorisation Request MT868 for both Periodic and Annual

In order to receive an MT868 and be able to send resulting messages including MT813 Income Statement, for a periodic Income Statement Request, please provide the below mandatory fields for PTOps to act as the mFund broker participant to initiate the MT869 Income Statement Request.

- Fund Code
- HIN
- Transaction Id
- mFund Broker PID from your test kit
- Income Statement Report type
- Income Statement Report Frequency

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.

Note: as of CHESS Release 9 (23 May 2016);

1. the existing the existing **MT813 Distribution Statement** has been renamed to **MT813 Income Statement** and
2. the existing **MT816 Distribution Statement Advice** has been renamed to **MT816 Income Statement Advice**

Conversions

Users completing Conversion testing where ASX Settlement Operations are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

- Specifying that the user wishes to act as a PISP to complete testing.
- Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
- Outlining details of expected responses should be supplied in an email to ASX Settlement Operations for each test

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.9
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

PISPs should email chesshelp@asx.com.au to ask for a conversion request to be sent. For an Issuer Sponsored to CHESS Conversion of Fund Units initiated by an ASX Settlement Participant PISPs will receive an **MT719 CHESS message** which can either be accepted or rejected.

For an **acceptance** the PISP must respond with an **MT 721 CHESS message**,
The mandatory fields in this message are

- Fund Code
- Transaction Id
- Origin Transaction Id

For a **rejection** the PISP must respond with an **MT 724 CHESS message**,
The mandatory fields in this message are

- Fund Code
- Transaction ID
- Origin Transaction ID

Rejected Movement Reason (see applicable reason codes in the EIS https://www.asxonline.com/intradoc-cgi/groups/clearing_and_settlement/documents/manuals/asx_021308.pdf)



For a CHESS to Issuer Sponsored Conversion of Fund Units the PISP will be required to advise ASX Settlement the following information

- Fund Code
- HIN
- Number of Units

ASX Settlement will send the message and the PISP will receive a **MT716 CHESS message**. The PISP will have no action other than to validate the 716 fields. Where ASX Settlement initiates the conversion request on behalf of an ASX Settlement Participant the **MT 716 CHESS message** the message will go to the Registry if they are different to the PISP the PISP will not see the 716 under their UIC.

Note: The above messages also contain Optional fields. For these fields please refer to the External Interface Specification Manual.



The Conversion Process

Conversions: Issuer Sponsored to CHESS Conversion of Fund Units



Followed by Product Issuer Settlement Participant acceptance or rejection of the Conversion request.



A 718 Issuer Sponsored Fund to CHESS Conversion Request		M / O
Fund Code		M
APIR Code		O
Receiving HIN		M
Movement Reason		M
Participant Reference		O
Supplementary Reference		O
Transaction Id		M
Security Holder Reference Number		M
AML/CTF Check Flag		M
KYC Check Flag		M
Underlying Reference		O
Number of Units		M

B 720 Accepted Participant Request		M / O
Processing Timestamp		M
Transaction Id		M
Origin Transaction Id		M

C 719 Issuer Sponsored Fund to CHESS Authorisation Request		M / O
Fund Code		M
APIR Code		O
Receiving HIN		M
Receiving PID		M
Receiving Registration Details		M
Broker Non broker Indicator		M
Processing Timestamp		M
Movement Reason		M
Transaction Id		M
Security Holder Reference Number		M
Origin Transaction Id		M
AML/CTF Check Flag		M
KYC Check Flag		M
Number of Units		M



Issuer Sponsored Enquiries

Users completing Conversion testing where ASX Post Trade Operations (PTOps) are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

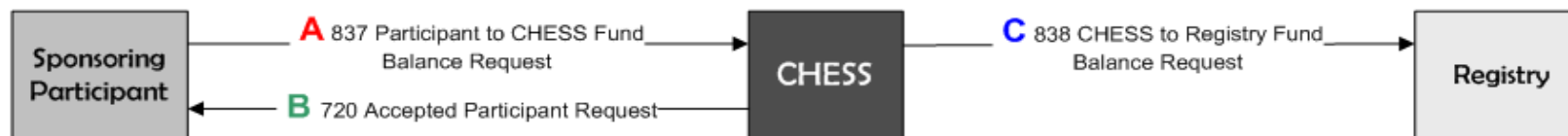
- Specifying that the user wishes to act as a PISP to complete testing.
- Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
- Outlining details of expected responses should be supplied in an email to ASX Settlement Operations for each test

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

The Issuer Sponsored Fund Holding Balance Enquiry Process

Enquiries: Issuer Sponsored Fund Holding Balance Enquiry



A 837 Participant to CHES Fund Balance Request		M / O
Fund Code		M
APIR Code		O
Transaction Id		M
Verification Name		M
Security Holder Reference Number		M

B 720 Accepted Participant Request		M / O
Processing Timestamp		M
Transaction Id		M
Origin Transaction Id		M

C 838 CHES to Registry Fund Balance Request		M / O
Fund Code		M
APIR Code		O
Requesting PID		M
Processing Timestamp		M
Transaction Id		M
Verification Name		M
Security Holder Reference Number		M
Origin Transaction Id		M



CHESS to CHESS Fund Transfers (Subject to Regulatory Approval)

Important Note:

This process has been added to these guidelines for the purpose of testing for Vendor Accreditation and Operational Readiness as part of mFund Enhancements – CHESS Release 10, 2018 and is only available to test in the CHESS RTE environment.

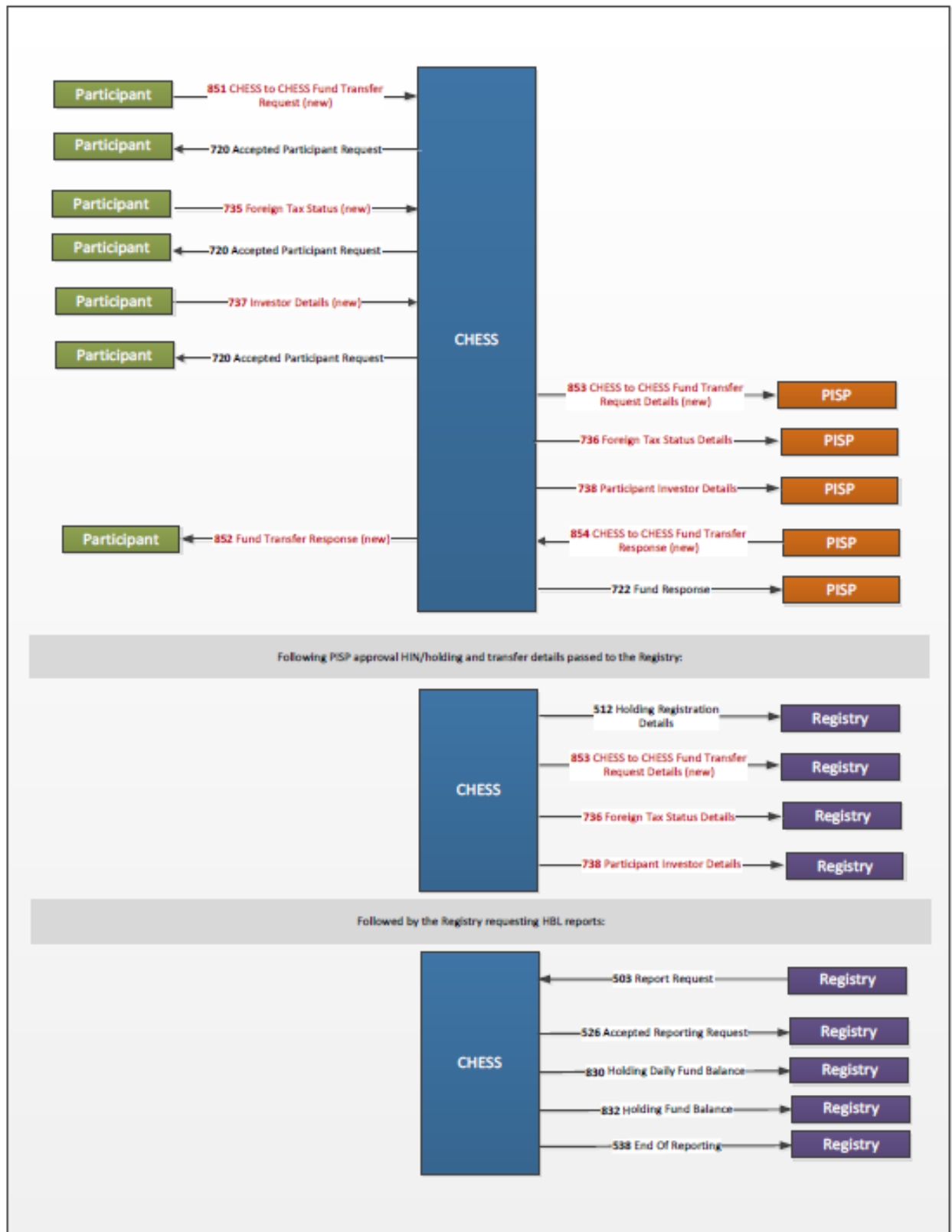
Users completing Transfer testing where ASX Post Trade Operations (PTOps) are required to act as a Settlement Participant will need to ensure an email is sent to chesshelp@asx.com.au ;

- Specifying that the user wishes to act as a PISP to complete testing.
- Providing an indicative timeframe and expected volume of testing so a resource can be allocated accordingly.
- Outlining details of expected responses (including details of MT851, MT735 & MT737) should be supplied in an email to ASX Settlement Operations for each test.

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

CHES to CHES Fund Transfer



Reporting

Testers are expected to complete testing in conjunction with use of the;

- ASX Settlement Procedure Guidelines (APG) section 28.14
<https://www.asxonline.com/content/asxonline/public/documents/asx-settlement-procedure-guidelines---table-of-contents.html>
- External Interface Specification Manual (EIS) section 4 and 8
<https://www.asxonline.com/content/asxonline/public/documents/chess-external-interface-specifications.html>
https://www.asxonline.com/content/dam/asxonline/public/documents/manuals/chess-external-interface-specifications/asx_021308.pdf

Reporting testing works as it does in production for the mFund test environment

Reporting Matrix

The below table provides some parameters for mFund Reporting

Reporting ID	Report Name	Existing CHESS output messages		New CHESS output messages for mFund	Fields to be populated for Immediate reporting	Fields to be populated for end of day reporting	Fields to be populated for weekly reporting	Requested by
		Non-mFund Related	mFund Related		079 Processing Frequency must = 00	085 Processing Period = E		
CFB	Participant Counterparty Balance	158	158		N/A	048,078,079,085	048,078,079,084,085	PISP, P
CSI	Cancelled Settlement Instruction	048, 116, 118, 132	116		N/A	002,048,078,079,085,094,095		PISP, P
FHT	Full Fund Holding Transaction	014, 018, 022, 034, 042, 050, 052, 054, 056, 058, 060, 062, 068, 070, 072, 074, 090, 146		733, 834, 835	002,016,048,078,079	002,016,048,078,079,085 Or 002,016,048,078,079,085		R, P
FSI	Full Settlement Instruction	116, 180, 188, 190, 192	116, 180, 188		N/A	002,048,078,079,085		PISP, P
HBL ²	Holding Fund Balance	508, 510, 522		830, 832	002,016,048,078,079,083 or 002,016,048,078,079,098	002,016,048,078,079,085,098		R, P
HLD	Holder Detail	222	222		016,048,078,079	048,078,079,085		PISP, P
HLH	Holder History	224	224		016,048,078,079	N/A		PISP, P
HMV	Holding Net Fund Movement	510		831	002,016,048,078,079,083,094,095	002,048,078,079,085		R

² Where a Holding Daily Fund Balance (830) or Holding Daily Balance (508) is required, an *As At Date* must be furnished in the 503 Report Request



HTX	Holding Transaction	002, 004, 006, 008, 010, 146, 172, 174		717, 723, 733	N/A	002,019,048,078, 079,085,094,095		P
PFD	Payment Facility Detail	230	230		N/A	048,078,079,085		PISP, P
PFH	Payment Facility History	232	232		N/A	048,078,079,085		PISP, P
RPD	Reporting Detail	234	234		048,049,078,079,099	N/A		R, PISP, P
SET	Settlement	124, 146, 156, 170, 192	124, 156, 170		N/A	048,078,079,085		PISP, P
SMP	Subregister Movement – Participant	008, 016, 076, 172, 174		717, 720, 723, 725	N/A	019,048,078,079, 085,094,095		P
SMR	Subregister Movement – Registry	402, 404, 406, 408, 412, 414, 416, 418, 426		716, 719, 722	N/A	002,048,078,079, 085		R
TSB	Total Security Fund Balance	532		833	N/A	002,048,078,079, 085 Or 002,048,078,079, 083,085,098		R
TSH	Top Security Fund Holder	560		844	N/A	002,012,013,048, 078,079,085		R
USD	User Detail	226	226		019,048,078,079	N/A		R, PISP, P
USH	User History	228	228		019,048,078,079	N/A		R, PISP, P



Foreign Tax Validation Matrix

Examples are provided in Foreign Tax Determination Example 1 and Foreign Tax Determination Example 2.

Account Type	Address Type	Address Details (3)	Entity Type	Foreign Residency Indicator	Superannuation Fund ABN	Foreign Person (3)	Foreign Person Date of Birth (3)	Foreign Country Code (3)	Foreign TIN (3)	TIN Absent (3)	Additional Foreign Parties
S	Error if populated	Error if populated	Error if populated	Error if populated	Mandatory	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated
I	Mandatory = R	Mandatory Single instance only	Error if populated	Mandatory	Error if populated	Mandatory Single instance if Foreign	Mandatory Single instance if Foreign	Mandatory Instance per Foreign Country Code. Error if 'AUS'	Mandatory Instance per Foreign Country Code. Error if both Foreign TIN and TIN Absent populated.	Mandatory Instance per Foreign Country Code. Error if both Foreign TIN and TIN Absent populated.	Error if populated
J	Mandatory = R	Mandatory Instance per Joint holder. At least 2 instances must be present	Error if populated	Mandatory. Note: Y if any of the Joint holders are Foreign.	Error if populated	Mandatory Instance per Foreign person	Mandatory Instance per Foreign person	Mandatory Instance per Foreign Country Code. Error if 'AUS'	Mandatory Instance per Foreign Country Code. Error if both Foreign TIN and TIN Absent populated.	Mandatory Instance per Foreign Country Code. Error if both Foreign TIN and TIN Absent populated.	No validation, but we expect the brokers to do the following: Aligned on the HIN Registration Details, populate with 'Y' where more than 3 parties are Foreign or where the HIN Registration Details list greater than 3 Persons on the account and those persons are Foreign.
C	Mandatory = G	Mandatory Single instance only	Mandatory	Mandatory	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated
T	Mandatory = T	Mandatory Single instance only	Mandatory	Mandatory	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated	Error if populated



Foreign Tax Determination Example 1

The structure allows up to 3 Foreign Persons per Account Type to be identified and 3 Foreign Tax Residencies per Foreign Person. An Additional Foreign Parties indicator Indicates where there are more than 3 Foreign Persons identified for the Account Type.

Account Type	Address Type ¹	Address Details	Entity Type ²	Foreign Residency Indicator	Superannuation Fund ABN ³	Foreign Person ⁴	Foreign Person Date of Birth	Foreign Country Code ⁵	Foreign TIN ⁶	TIN Absent ⁷	Comments
3 instances provided for Account Type 'J'						3 instances provided – any additional identified Foreign Persons can be indicated by using the Additional Foreign Parties indicator			3 instances provided		
S (Super Fund)					Y						No foreign tax reporting implications
I (Individual)	Y	Y		Y		Y	Y	Y	Y	Y if no Foreign TIN	
	Y	Y		N							No foreign tax reporting implications
J (Joint)	Y	Y		Y		Y	Y	Y	Y	Y if no Foreign TIN	Align the group entries with the holder names as they appear in the HIN Registration details.
	Y	Y		N							No foreign tax reporting implications
C (Company)	Y	Y	Y	Y							
	Y	Y	Y	N							No foreign tax reporting implications
T (Trust)	Y	Y	Y	Y							
	Y	Y	Y	N							No foreign tax reporting implications

Notes

- ¹ A Residential Address is required for Account Types 'I' and 'J'; a Registered Address is required for Account Type 'C'; a Trust Address is required for Account Type 'T'.
- ² Entity Type denotes, for Account Types 'C' and 'T', whether the entity is an Active NFE, Passive NFE or a Financial Institution.
- ³ A Superannuation Fund ABN is required for Account Type 'S'.
- ⁴ Up to 3 Foreign Persons may be identified. Where more than 3 Foreign Persons are identified, the Additional Foreign Parties indicator must be used.
- ⁵ Up to 3 X 3 Character ISO Country Codes may be entered per Foreign Person. AUS (Australia) not accepted.
- ⁶ Up to 3 Tax Identifiers, such as a TIN, may be entered per Foreign Person.
- ⁷ Up to 3 unknown Tax Identifiers, such as a TIN, may be described as absent per Foreign Person.



Foreign Tax Determination Matrix Example 2

This table shows examples where there is NO Foreign Residency identified.

Account Type	Address Type	Address Details (3)	Entity Type	Foreign Residency Indicator	Superannuation Fund ABN	Foreign Person (3)	Foreign Person Date of Birth (3)	Foreign Country Code (3)	Foreign TIN (3)	TIN Absent (3)	Additional Foreign Parties
S	No value	No values	No value	No value	346678009005	No values	No values	No values	No values	No values	No value
I	R	(1) Mr B. Grete 18 Muru Ave Dubbo NSW Australia	No value	N	No value	No values	No values	No values	No values	No values	No value
J	R	(1) Mrs B. Ushen 342 Air Ave Picton NSW Australia (2) Ms. L. Jitty 7 Poy Lane Picton NSW Australia (3) Mr. J. Duton 81a Ret Road Picton NSW Australia	No value	N	No value	No values	No values	No values	No values	No values	N
C	G	(1)YYT Inc PO Box 23456 Sydney Australia	P	N	No value	No values	No values	No values	No values	No values	No value
T	T	(1)TuTu Trading 8501 One Way Melbourne Australia	A	N	No value	No values	No values	No values	No values	No values	No value

