

SECTION 5. MESSAGE INTERDEPENDENCIES

5.1. Introduction

The purpose of sub-section 5.2 is to describe the interdependencies between CHES messages, and should be read in conjunction with the prerequisites described for each message in Section 4 of this manual and with the relevant industry procedures.

Each subsection of this section represents a functional area.

Within a functional area, there are one or more 'sets' of messages forming a sequence for that function. A 'set' is a group of messages which are processed together as one event, i.e., a single input directly triggering one or more outputs. For example, messages 015, 016 and 408 within Issuer Sponsored to CHES Transfer form a set. The set shows the messages involved as well as the type of users sending, processing or receiving those messages. (These examples are shown in a later subsection.) The numbers shown in the diagrams relate to the messages in Section 4, but note that the full name of the message is not always shown.

Where more than one set is involved in the function, e.g., as a result of subsequent processing by a user, the collection of sets is termed a 'sequence'. In some circumstances either of two sets may be the next set within a sequence, e.g., either authorisation or rejection of a request. For example, in Issuer Sponsored to CHES Transfer, one sequence is the set of messages 015/016/408 with the set 405/174 for a successful request, whereas another sequence is 015/016/408 with 407/076 for a rejected request.

In the diagrams, there is an implied vertical timescale within a set for the receipt, processing and sending of messages. Further, there is also an implied vertical timescale between sets in the sequence.

The generic message type 518 Rejected Transaction is not shown in any set, as it is implied that any incoming transaction which fails edit checks, (e.g. invalid HIN) will be rejected with a 518 message.

The following table describes the symbols used in the diagrams:

Symbol	Description
C	CHESS
P	Participant
R	Registry
PISP	Product Issuer Settlement Participant
AMO	Market Operator
B	Payment provider involved in transferring funds
U	User of the CHESS system
F/IM	Fund/Investment Manager
Admin	Represents the manual data entry functions of the Clearing House
OFR	Offeror in a takeover offer
ASX Clear	ASX Clear Pty Ltd
WI	Warrant Issuer Agent

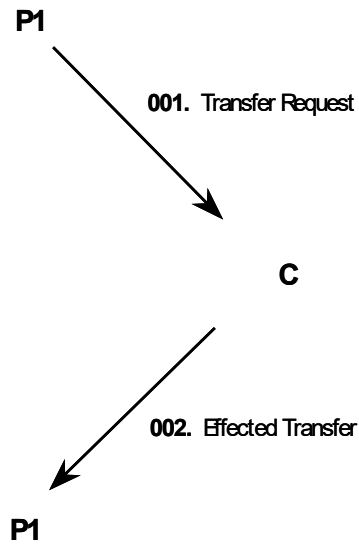
The arrows in the diagrams indicate the sender and receiver of a message. Where two arrows are shown together, this represents the same message being sent to two parties. Where an arrow is shown in dotted form, it indicates that the message is sometimes sent to the relevant party, depending on various circumstances.

The purpose of Section 6 is to provide examples of the various transaction identifiers and their relationships within a sequence. An example is given for each different type of sequence and a reference to the appropriate 'example type' is given with the diagram for each sequence in sub-section 5.2. Note that definitions for the various transaction identifiers are given in section 8.3 of this manual. These definitions should be read carefully prior to examining the transaction type examples.

5.2. CHESS Message Interdependency Diagrams

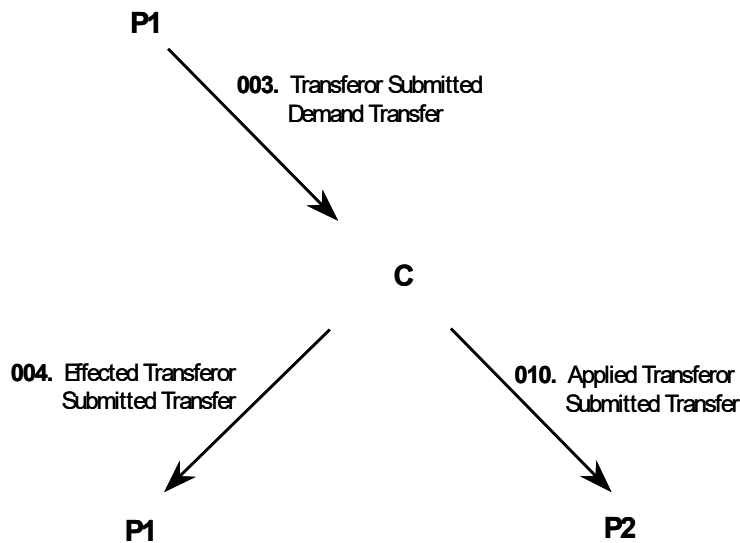
5.2.1. Demand Single Entry CHESS to CHESS Transfer

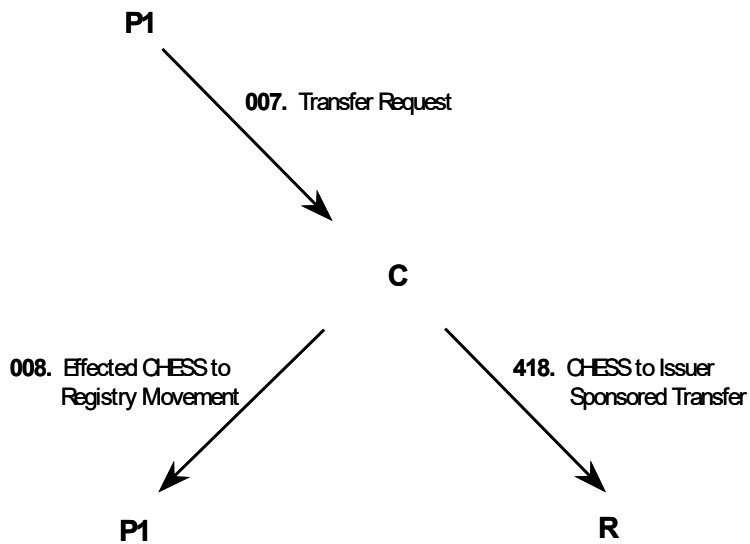
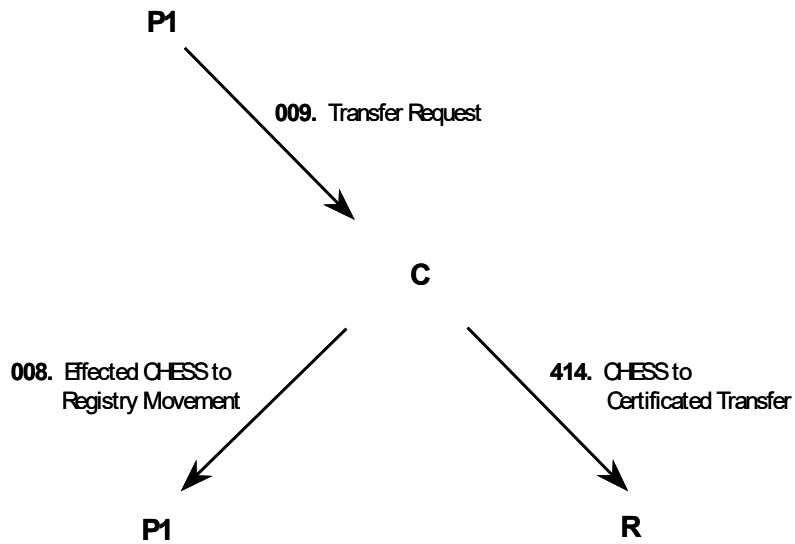
(Refer also to section 6.1 for Transaction Id usage.)



5.2.2. Transferor Submitted Demand Transfer

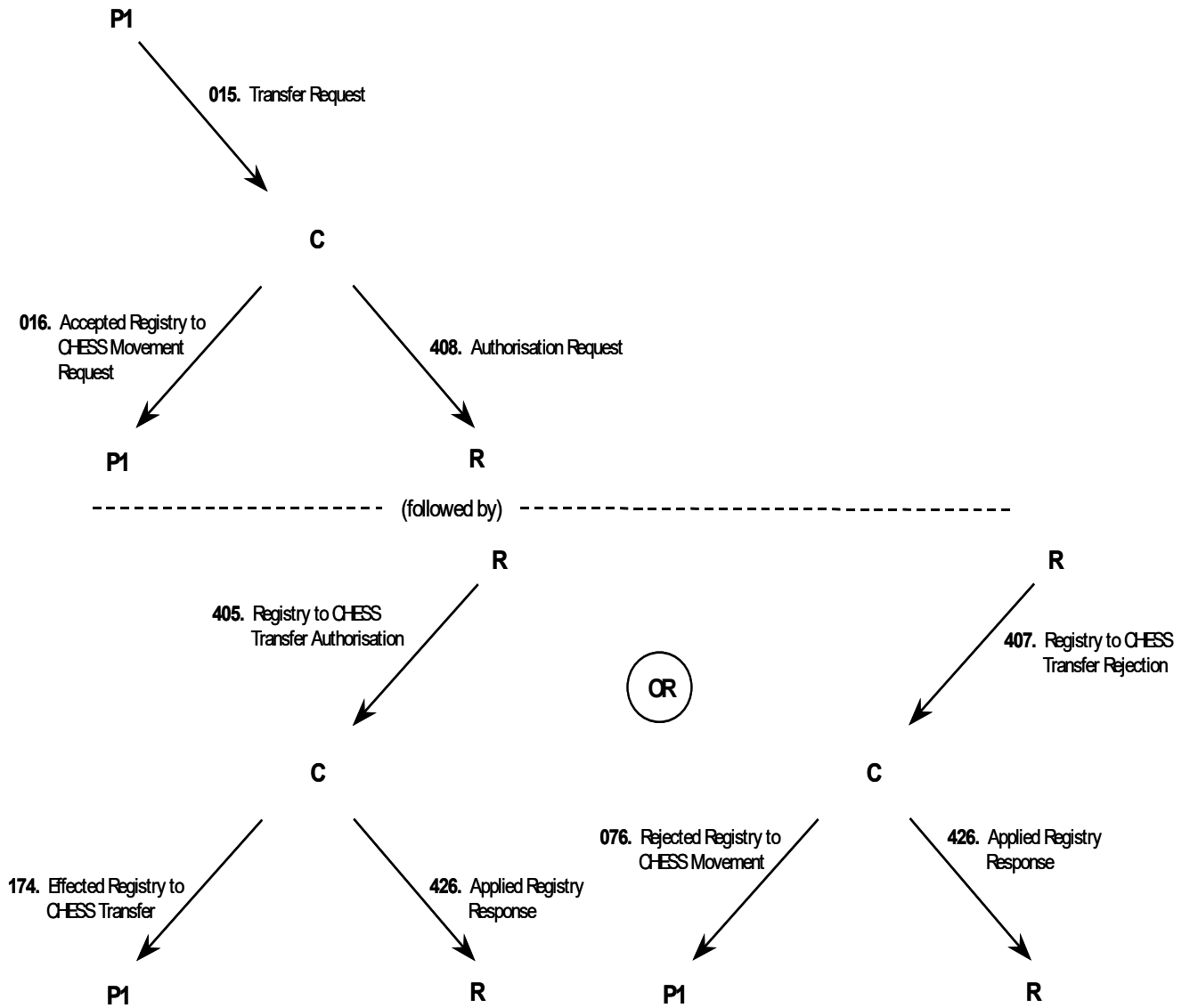
(Refer also to section 6.2 for Transaction Id usage.)



5.2.3. Demand CHES to Issuer Sponsored Transfer**5.2.4. Demand CHES to Certificated Transfer**

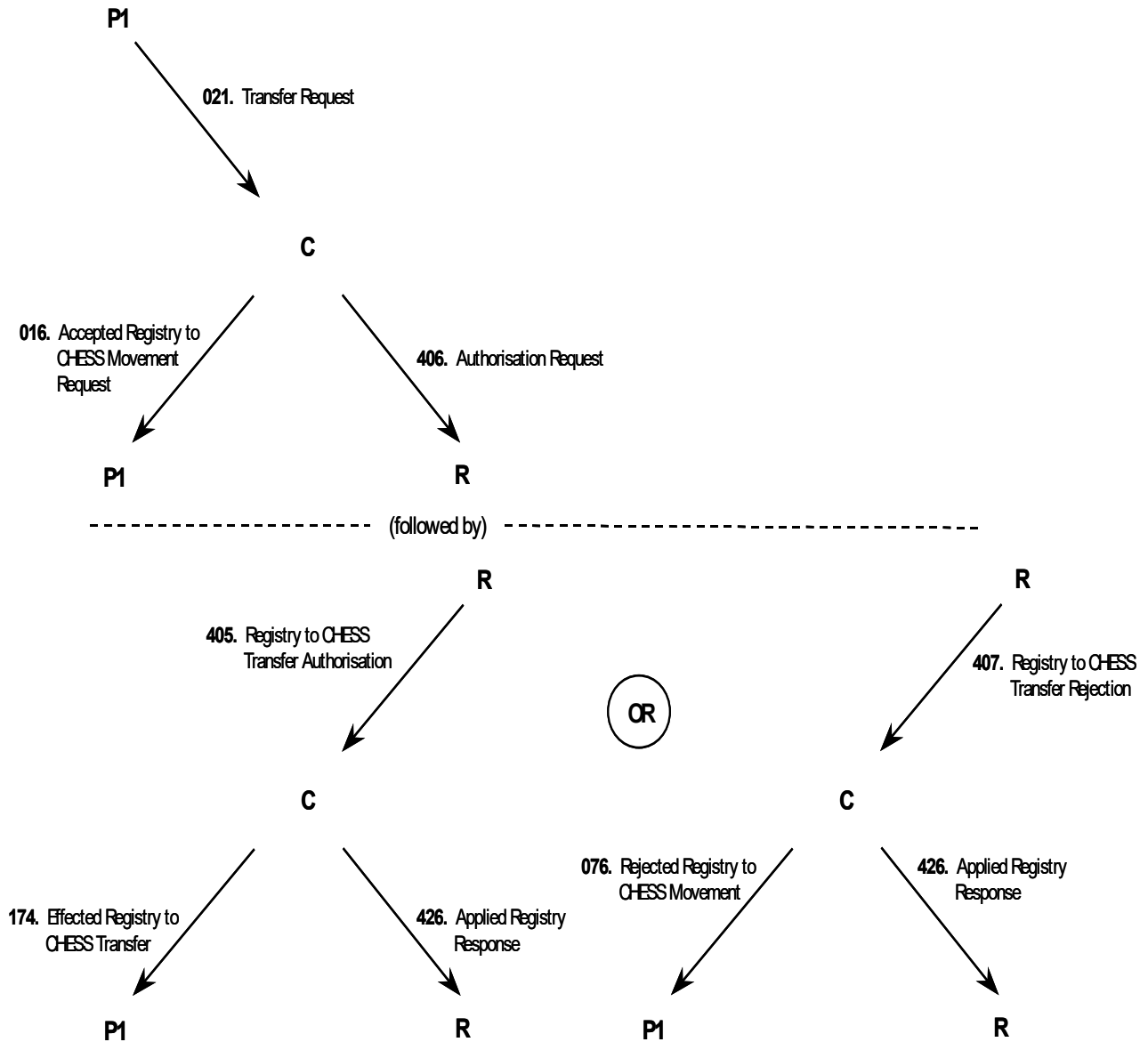
5.2.5. Issuer Sponsored to CHES Transfer

(Refer also to section 6.3 for Transaction Id usage.)



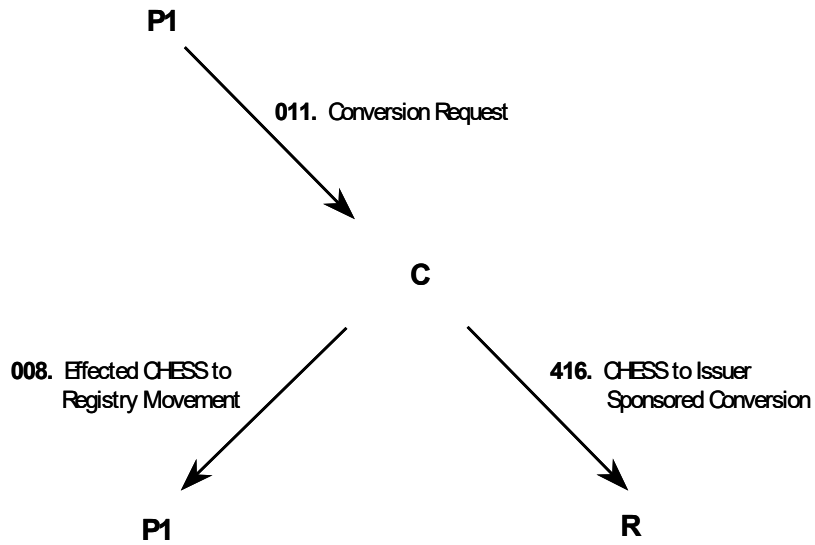
5.2.6. Certificated to CHES Transfer

(Refer also to section 6.3 for Transaction Id usage.)

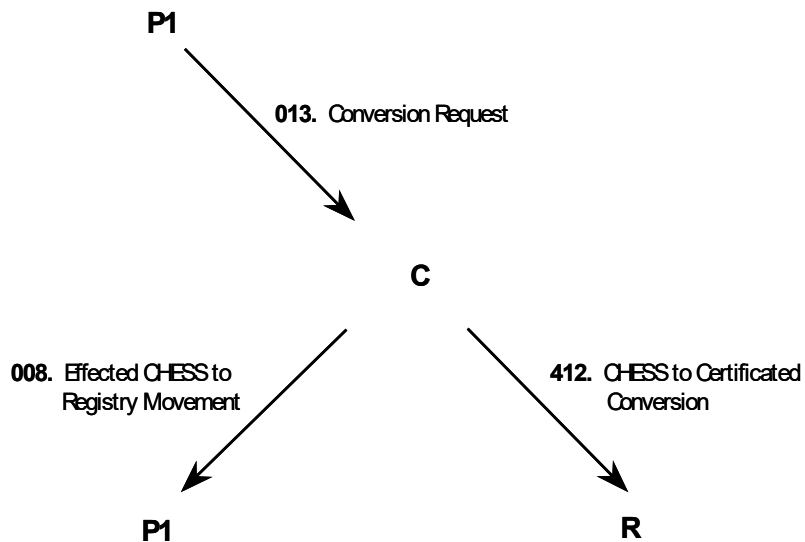


5.2.7. CHES to Issuer Sponsored Conversion

(Refer also to section 6.2 for Transaction Id usage.)

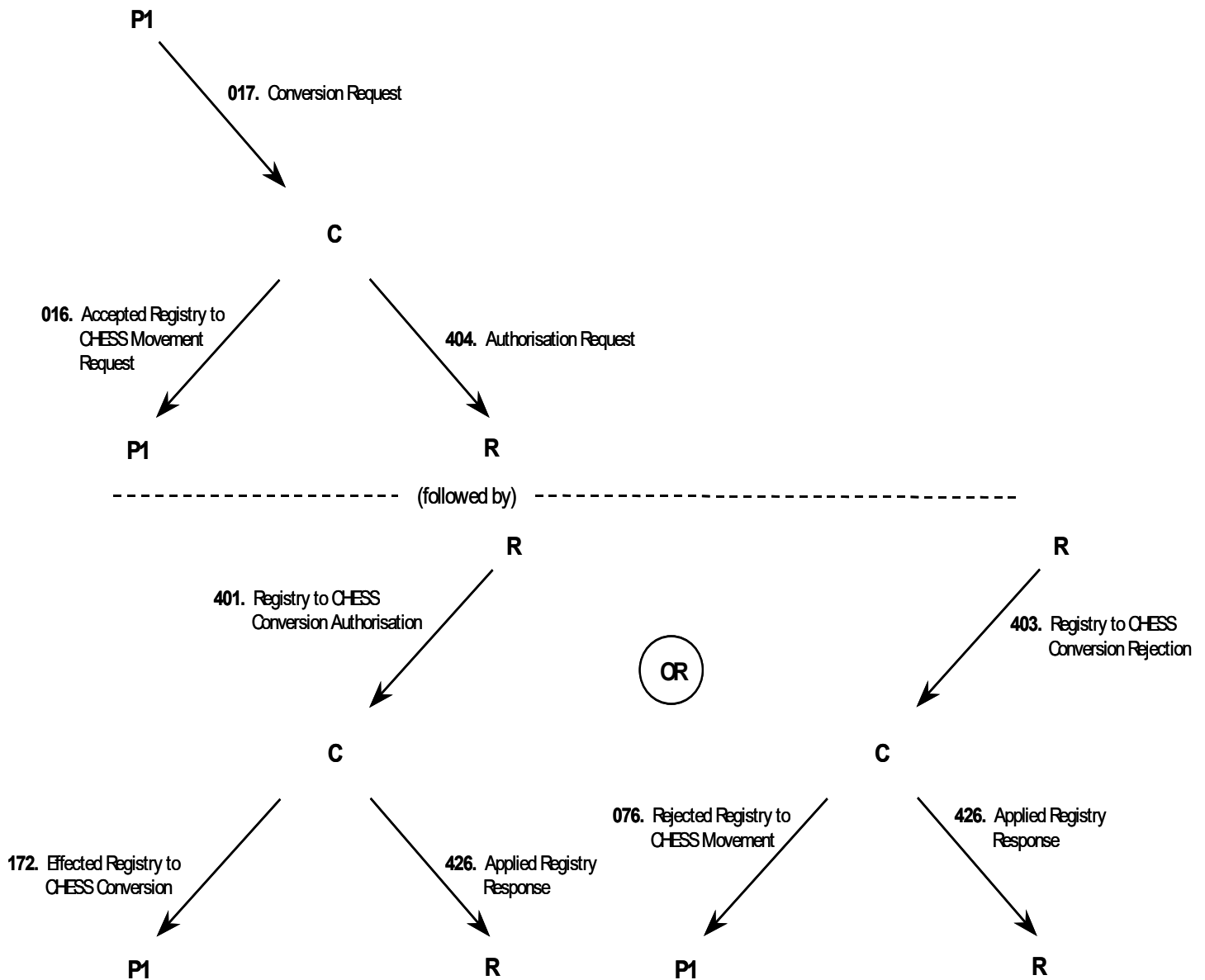
**5.2.8. CHES to Certificated Conversion**

(Refer also to section 6.2 for Transaction Id usage.)



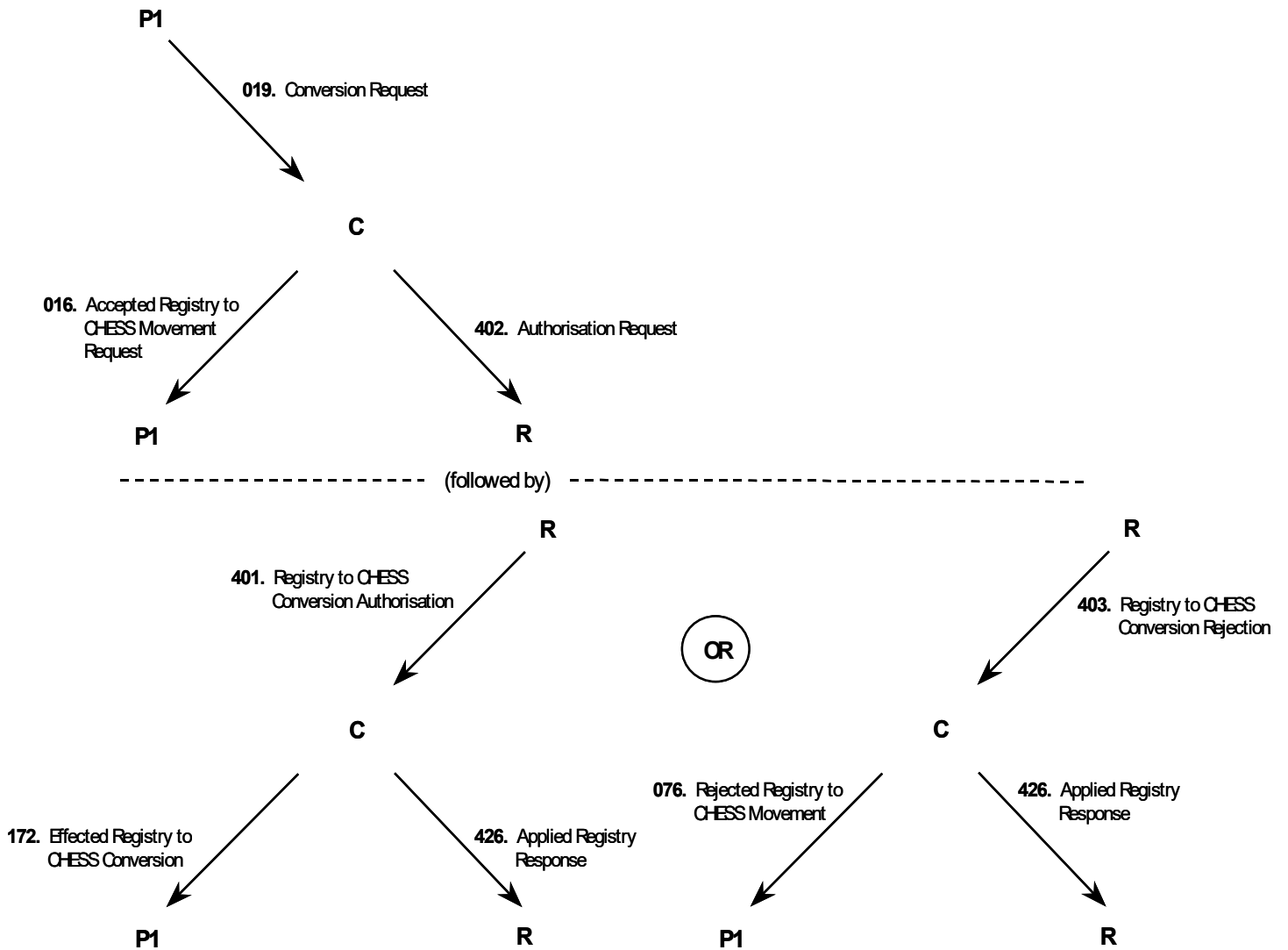
5.2.9. Issuer Sponsored to CHES Conversion

(Refer also to section 6.3 for Transaction Id usage.)



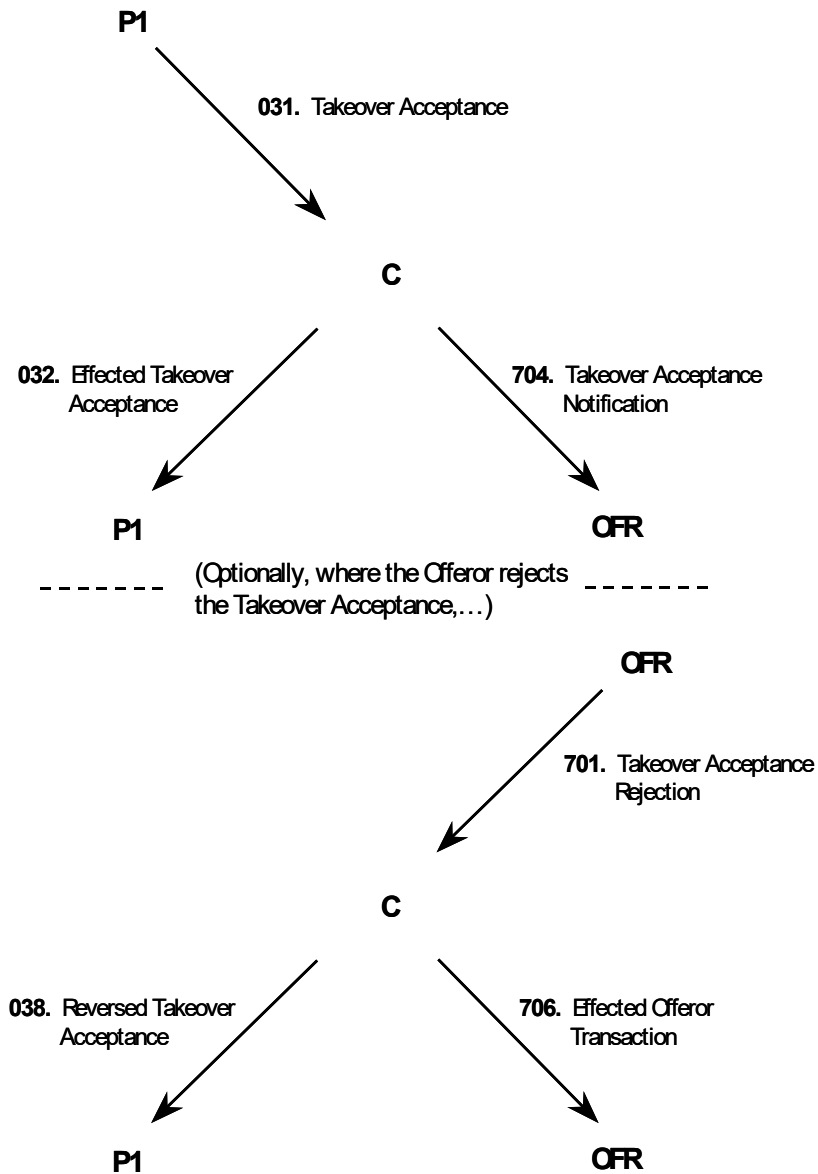
5.2.10. Certificated to CHES Conversion

(Refer also to section 6.3 for Transaction Id usage.)



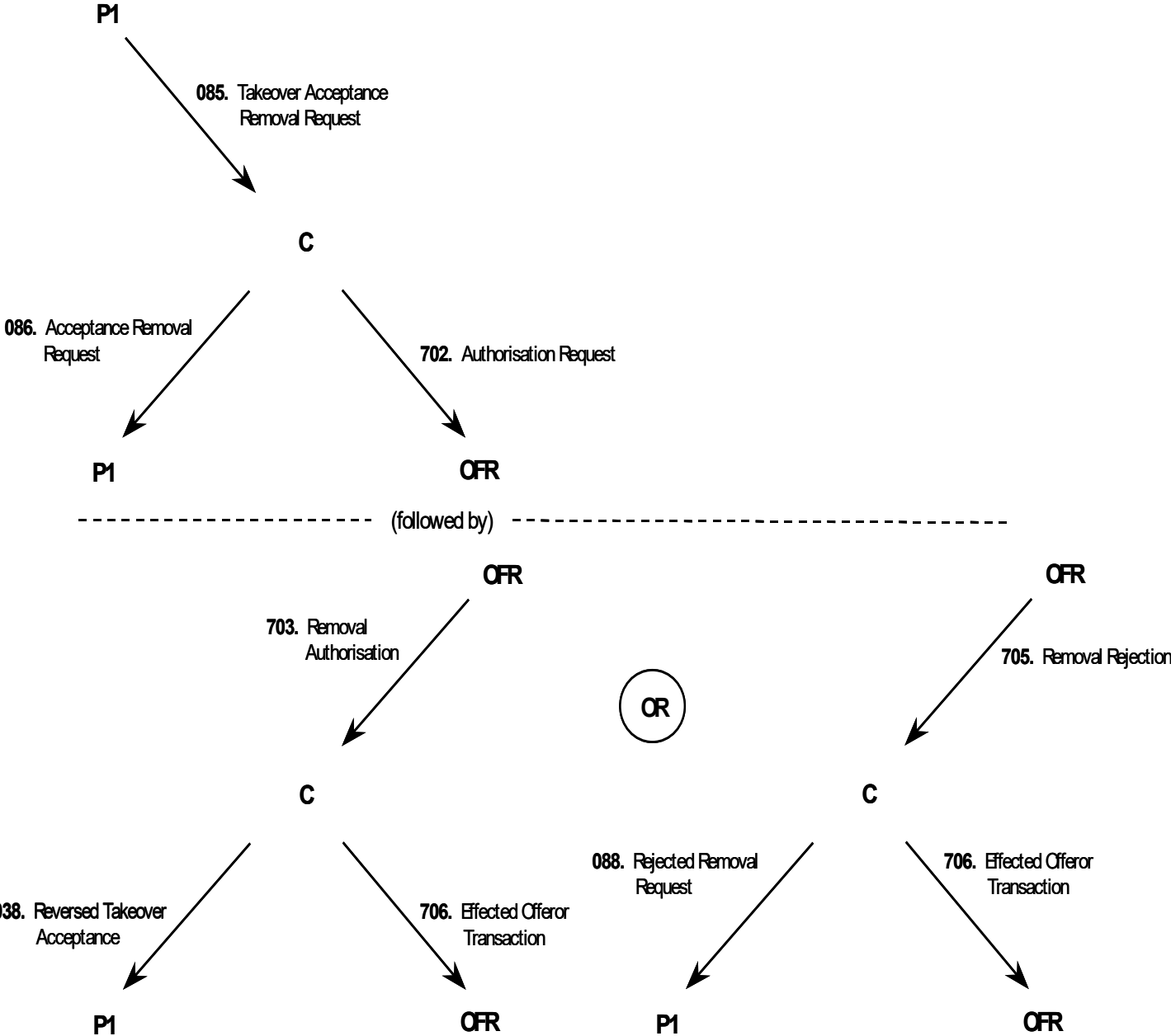
5.2.11. Takeover Acceptance

(Refer also to section 6.17 for Transaction Id usage.)



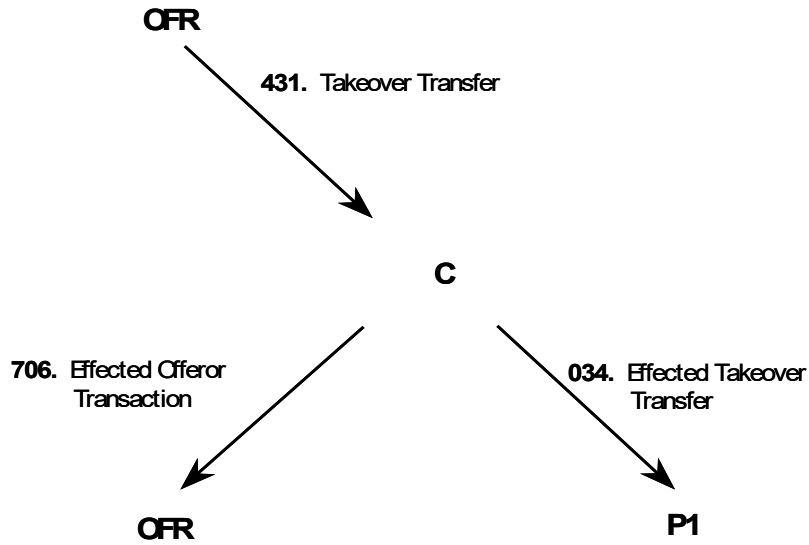
5.2.12. Takeover Acceptance Removal Request

(Refer also to section 6.3 for Transaction Id usage.)



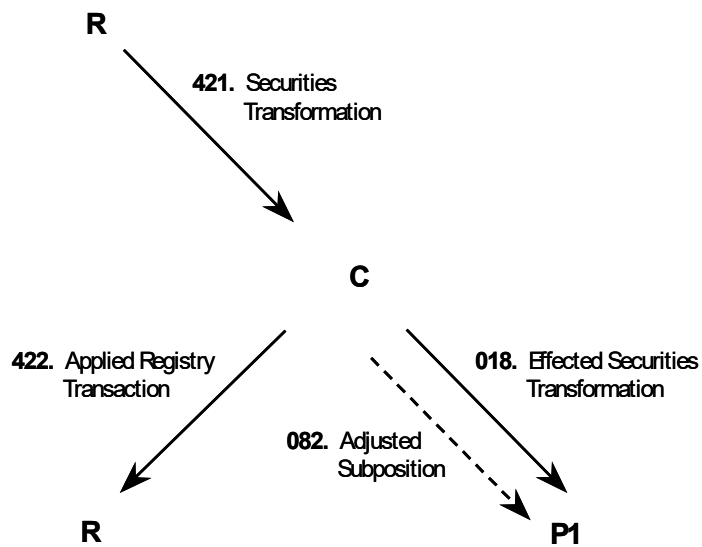
5.2.13. Takeover Transfer

(Refer also to section 6.2 for Transaction Id usage.)



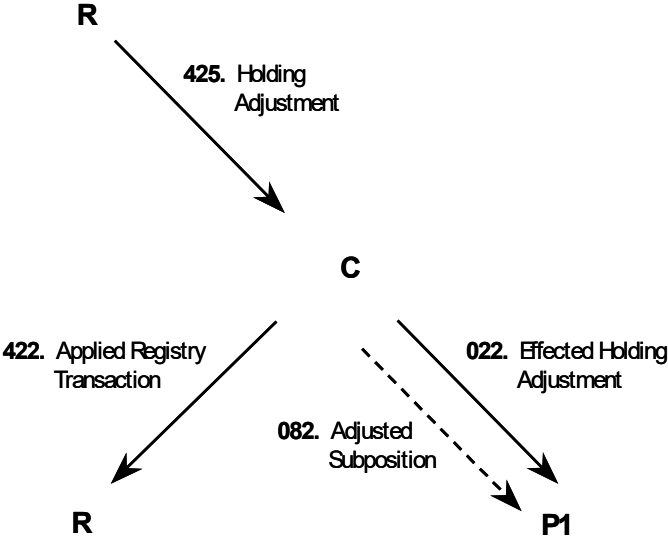
5.2.14. Securities Transformation

(Refer also to section 6.2 for Transaction Id usage.)



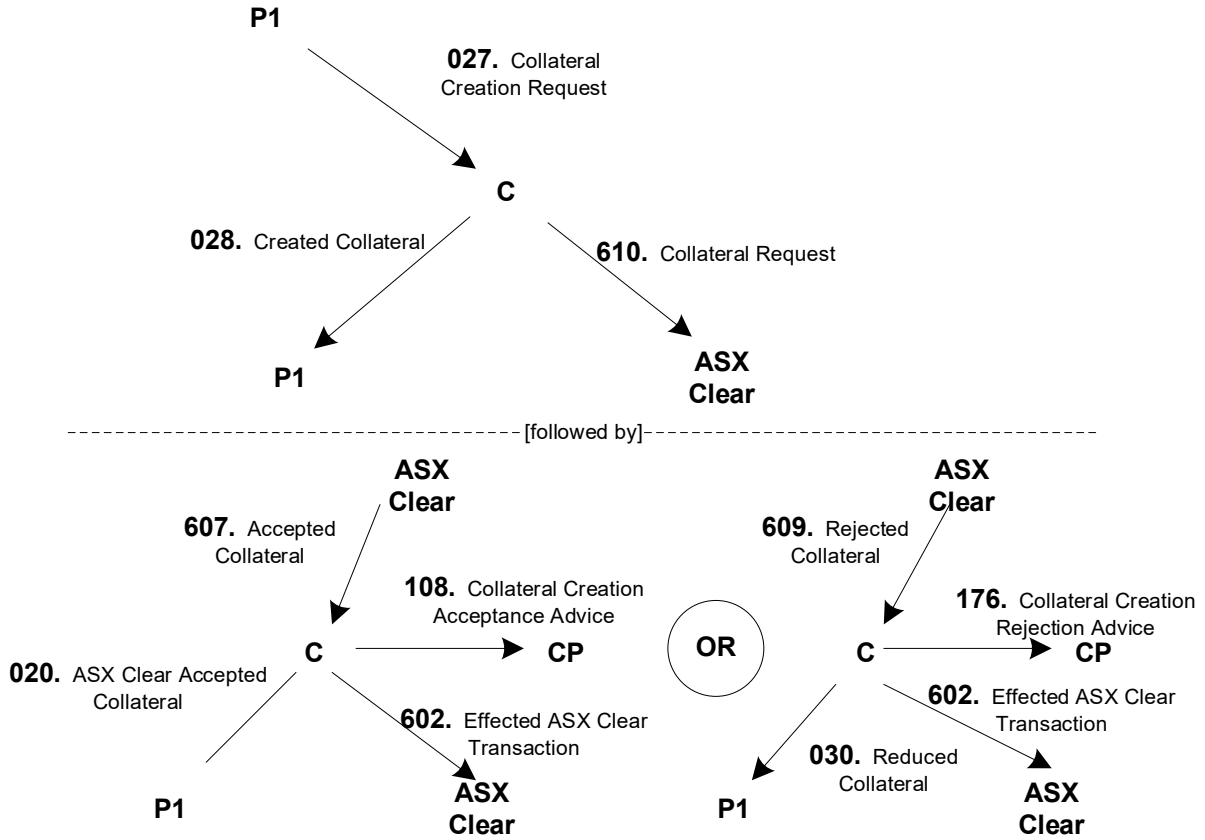
5.2.15. Holding Adjustment

(Refer also to section 6.2 for Transaction Id usage.)



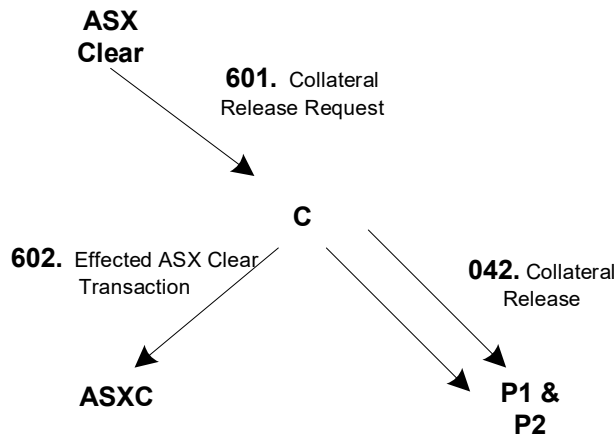
5.2.16. Collateral Creation

(Refer also to section 6.17 for Transaction Id usage.)



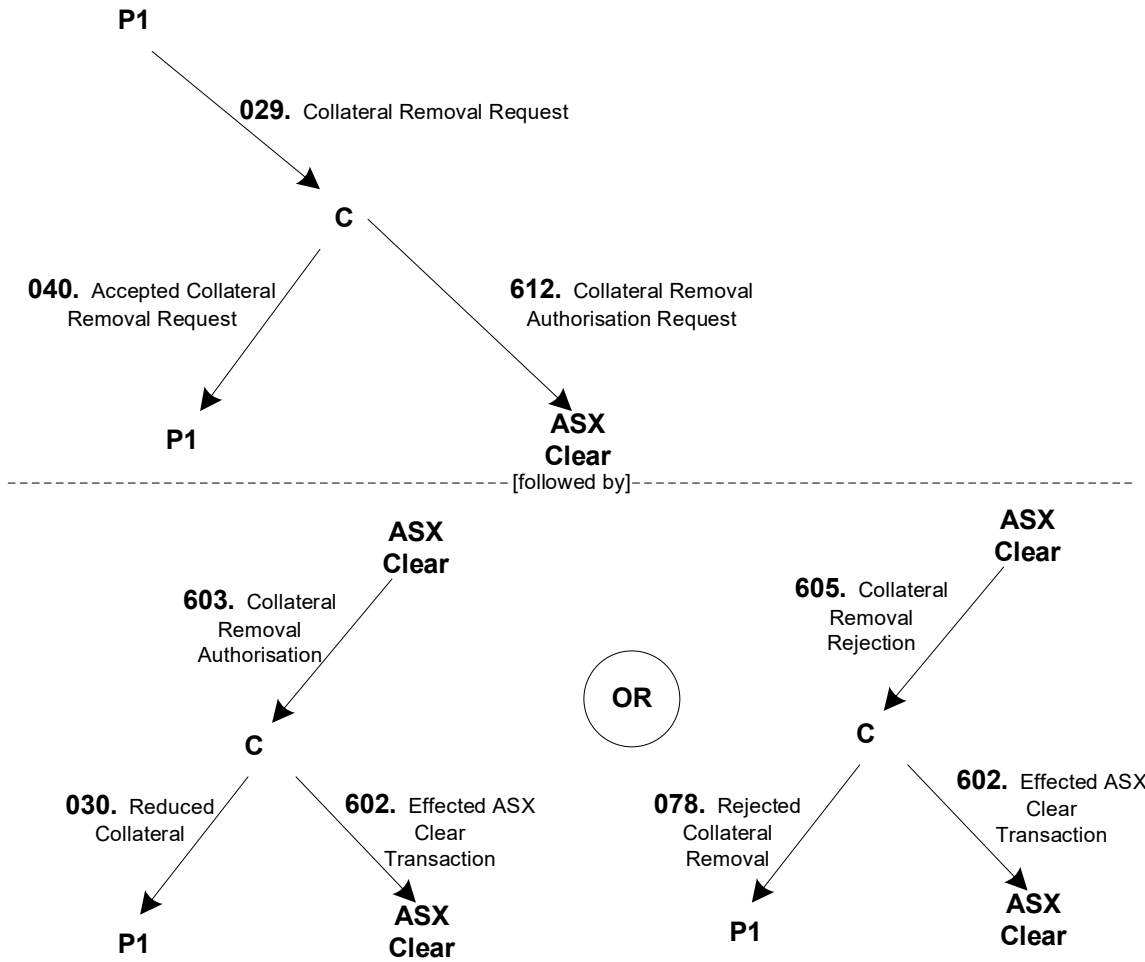
5.2.17. Collateral Release

(Refer also to section 6.2 for Transaction Id usage.)

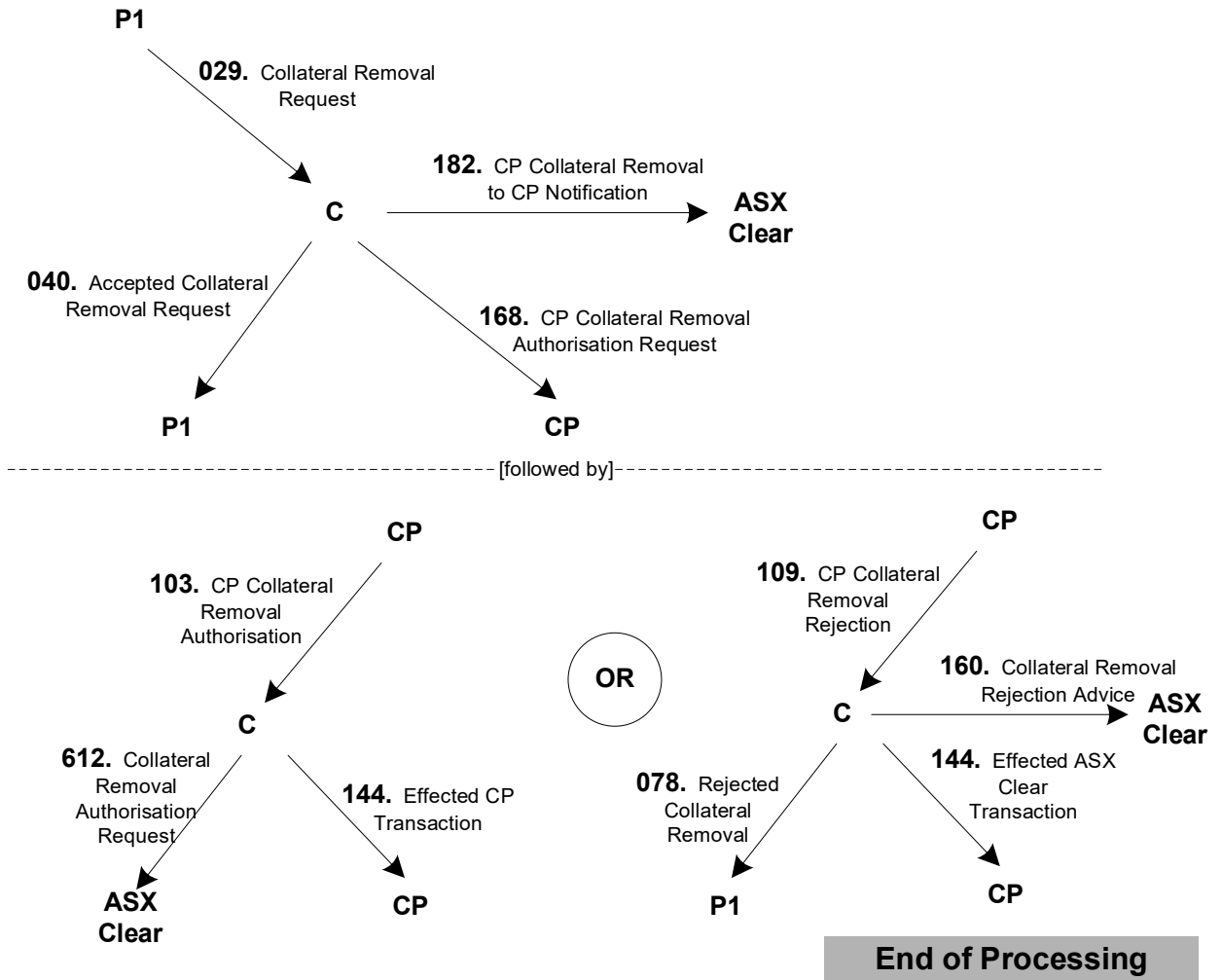


5.2.18. Collateral Removal Request

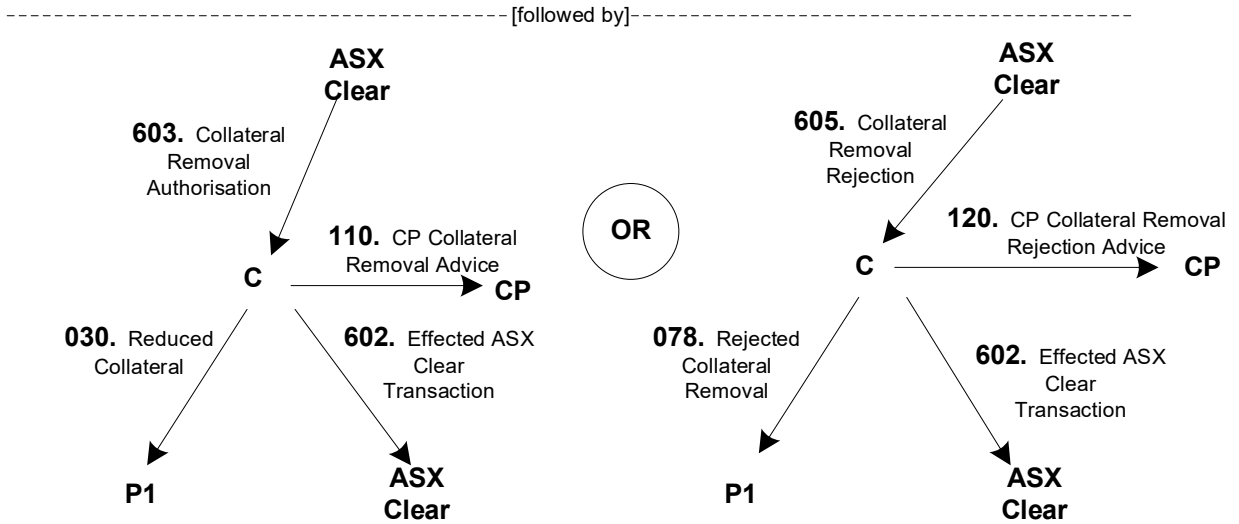
(Refer also to section 6.18 for Transaction Id usage.)



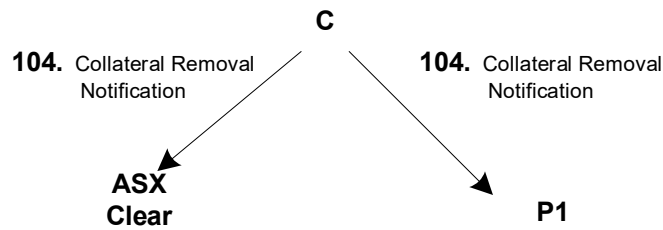
**5.2.19. Collateral Removal Request
(Controlling Participant & Clearing Participant differ)**



**5.2.19. Collateral Removal Request
(Controlling Participant & Clearing Participant differ) continued**

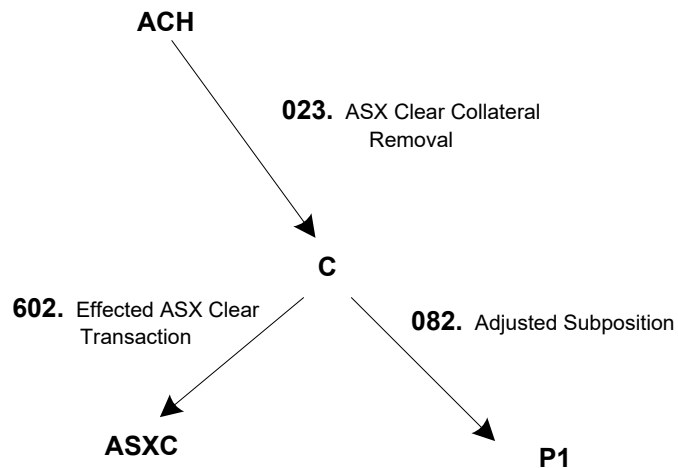


5.2.20. Collateral Removal Warning



5.2.21. ASX Clear Collateral Removal

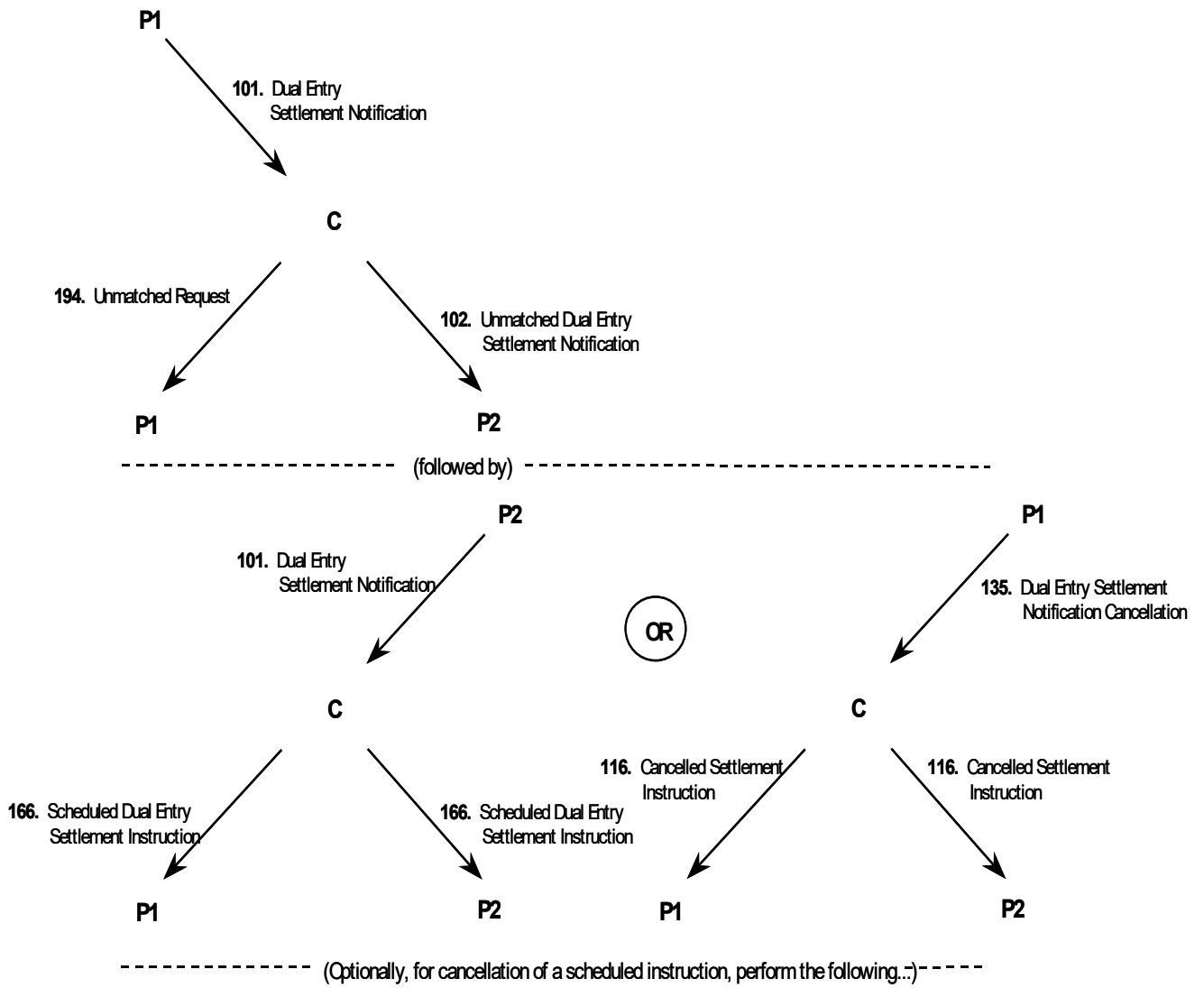
(Refer also to section 6.2 for Transaction Id usage.)

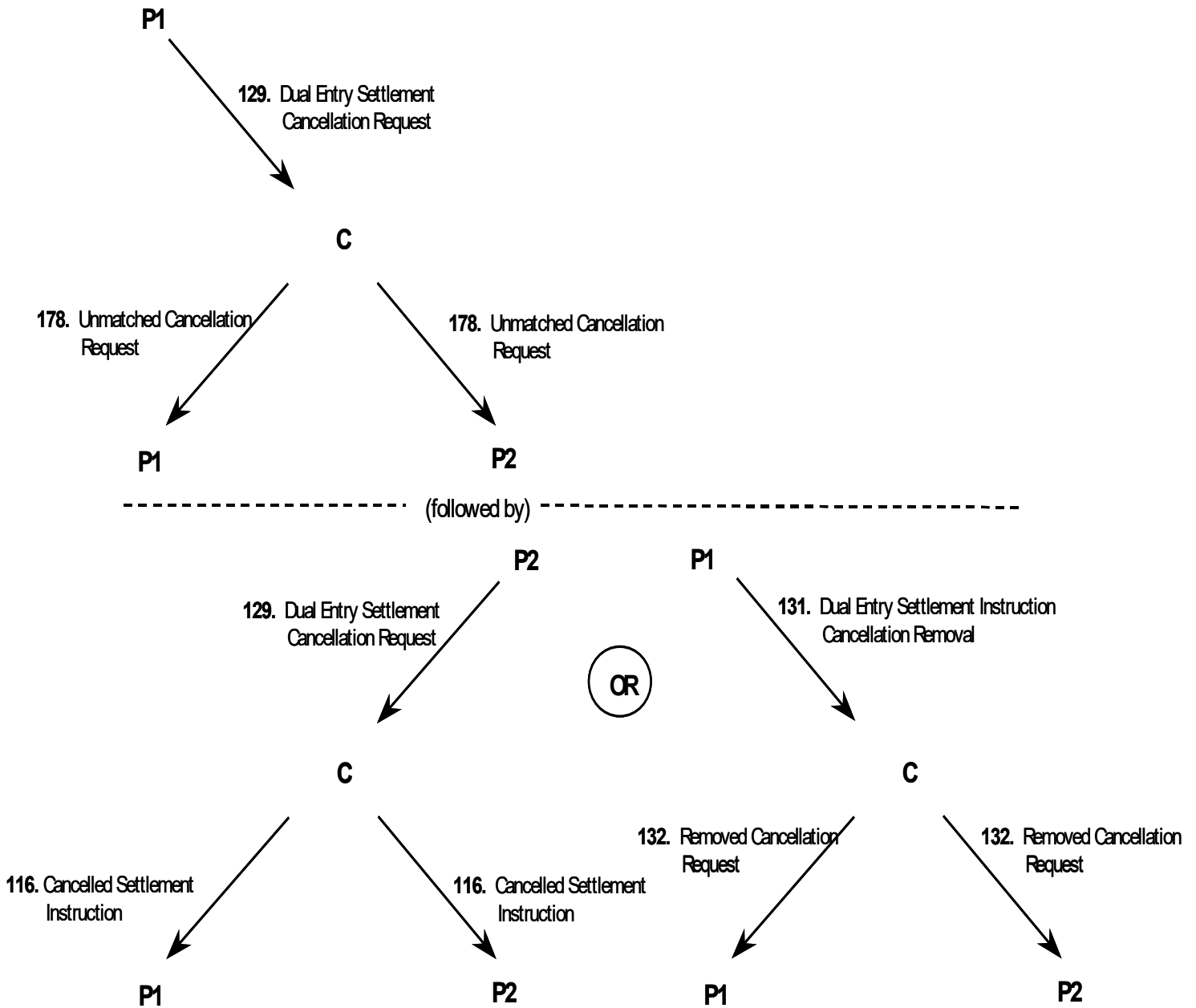


Note: This function covers both Expiring Warrant Collateral Removal (which incorporates Collateral Removal Warning) and any other instance where ASX Clear initiate the removal of collateral (refer to APG Section 17).

5.2.22. Dual Entry Settlement Notification

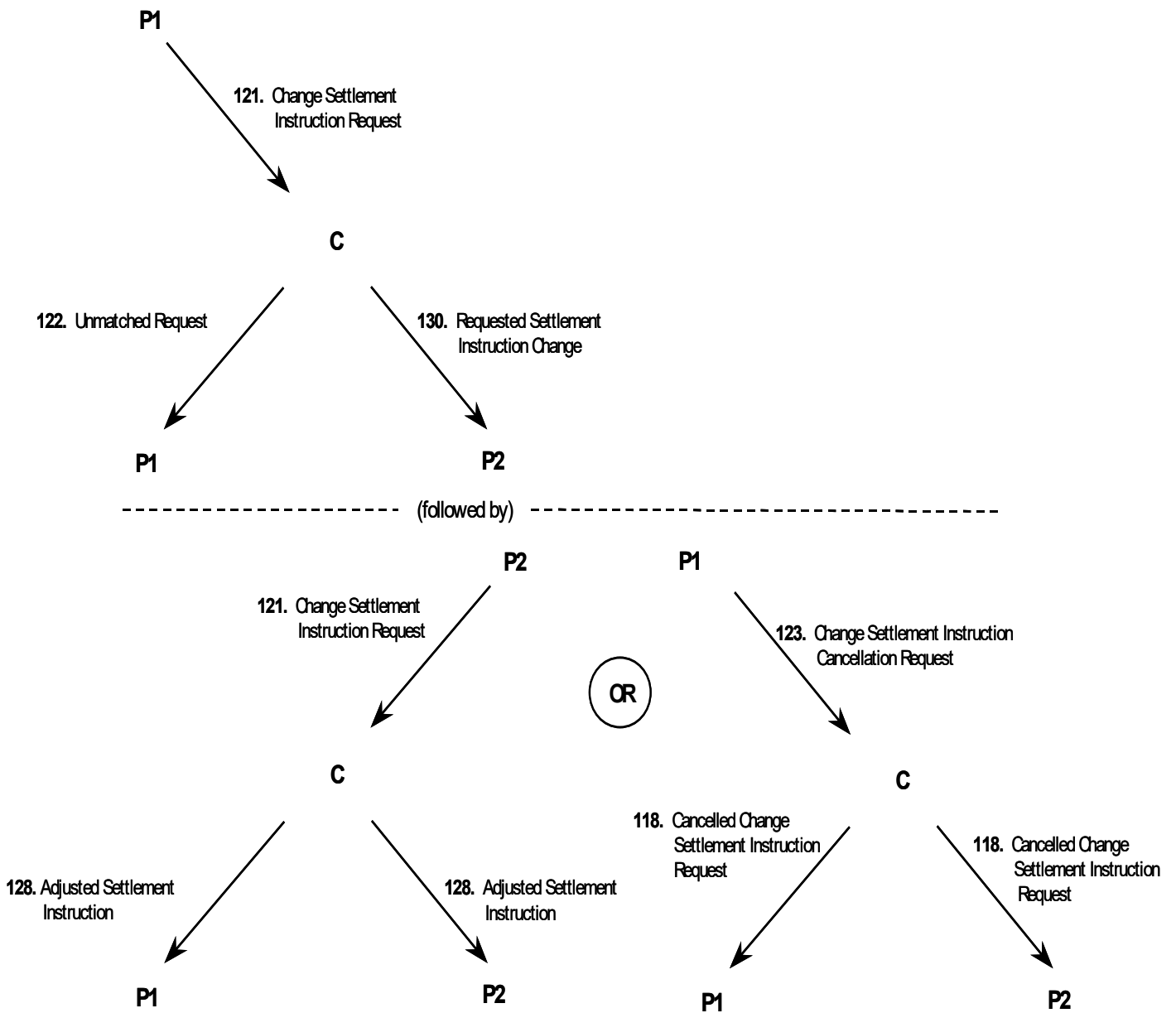
(Refer also to section 6.5 for Transaction Id usage.)





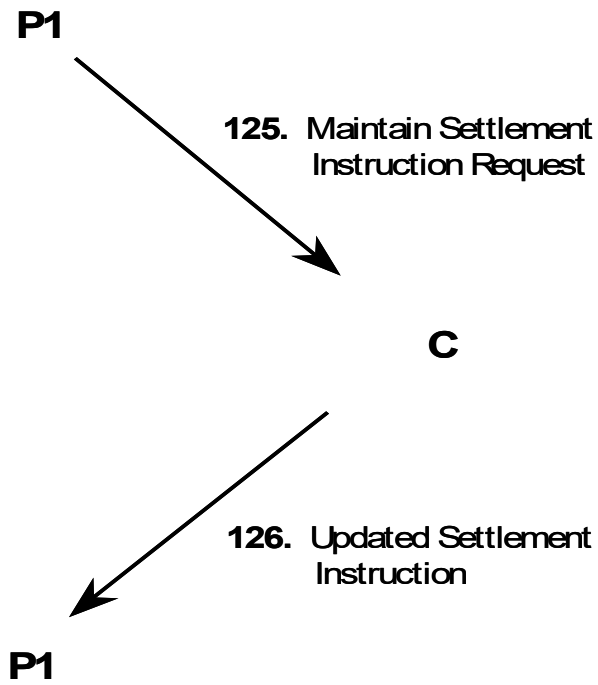
5.2.23. Change Settlement Instruction

(Refer also to section 6.5.2 for Transaction Id usage.)



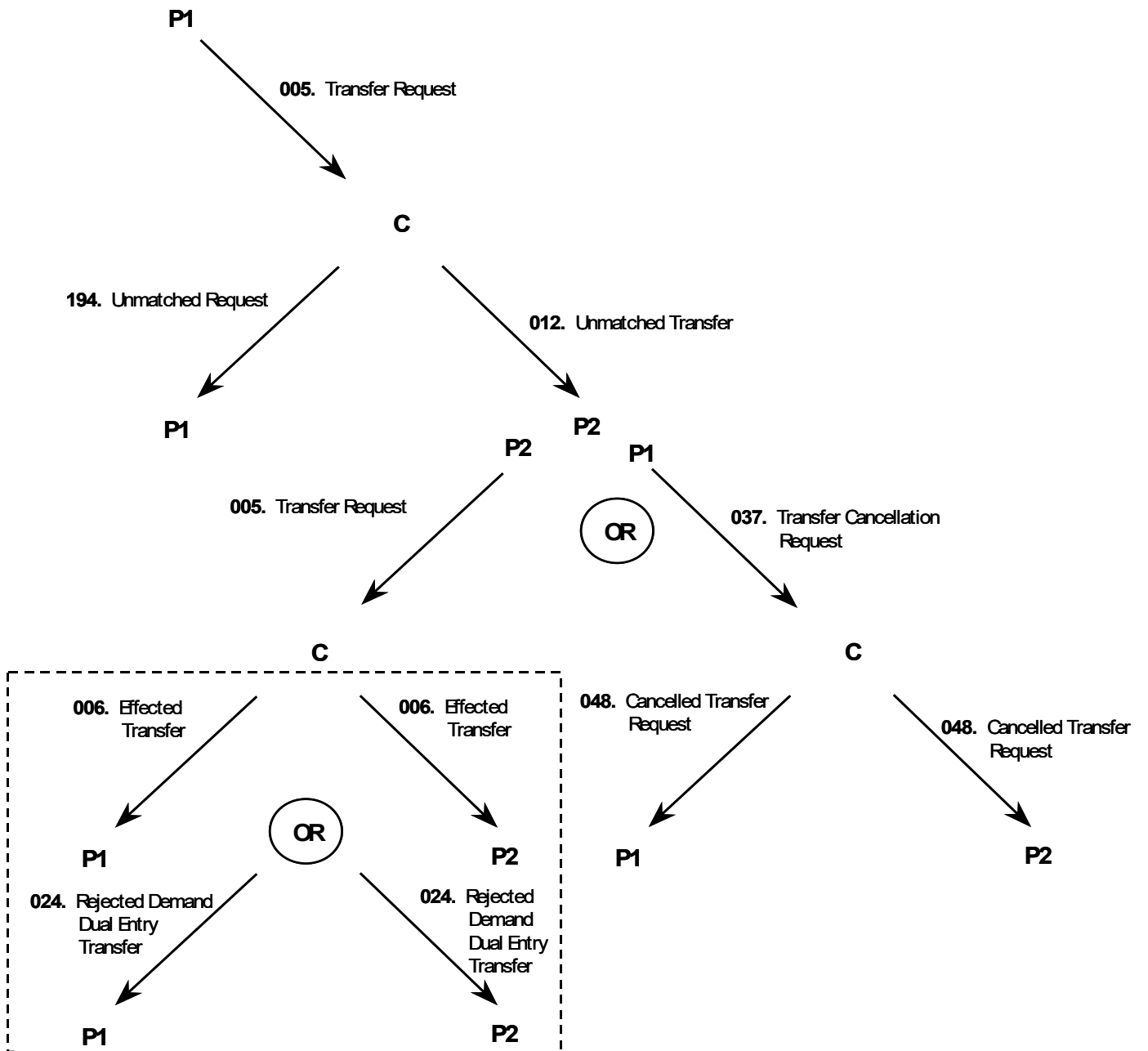
5.2.24. Maintain Settlement Instruction

(Refer also to section 6.6 for Transaction Id usage.)



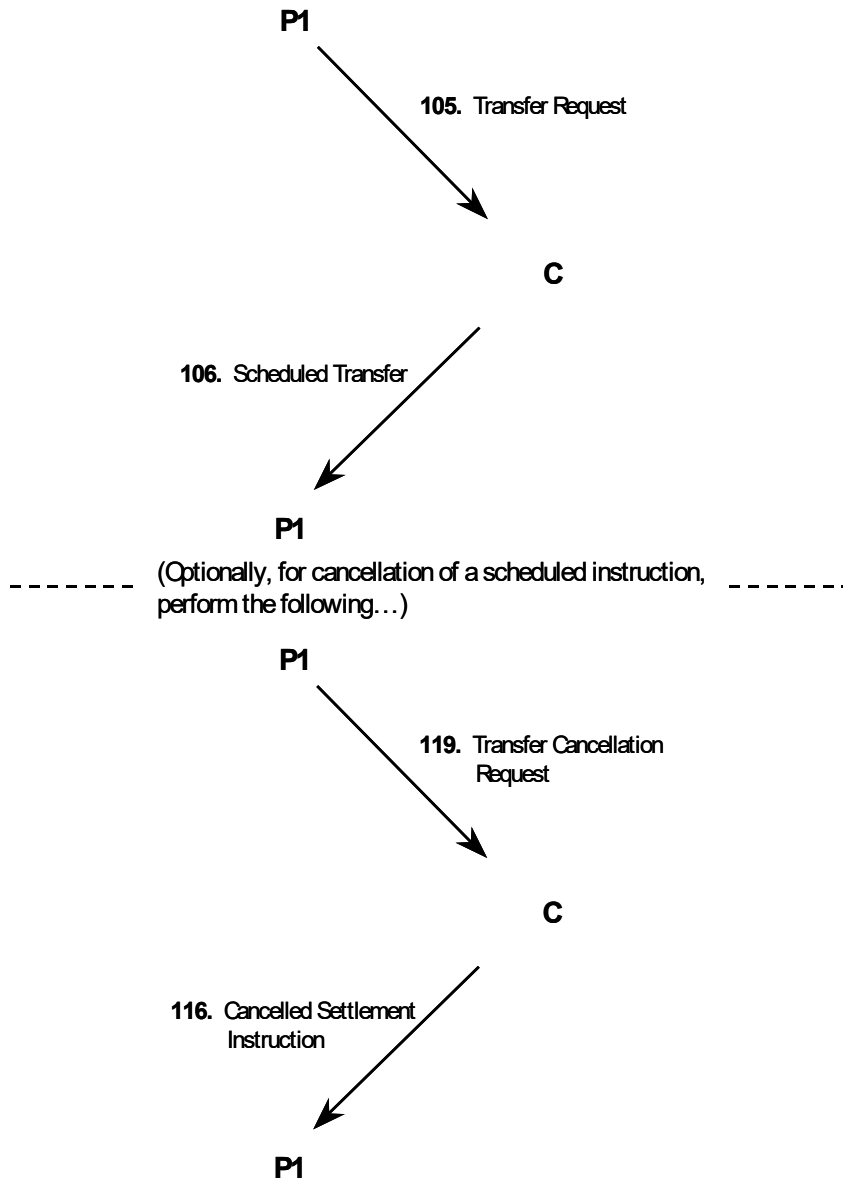
5.2.25. Demand Dual Entry CHES to CHES Transfer

(Refer also to section 6.5.1 for Transaction Id usage.)



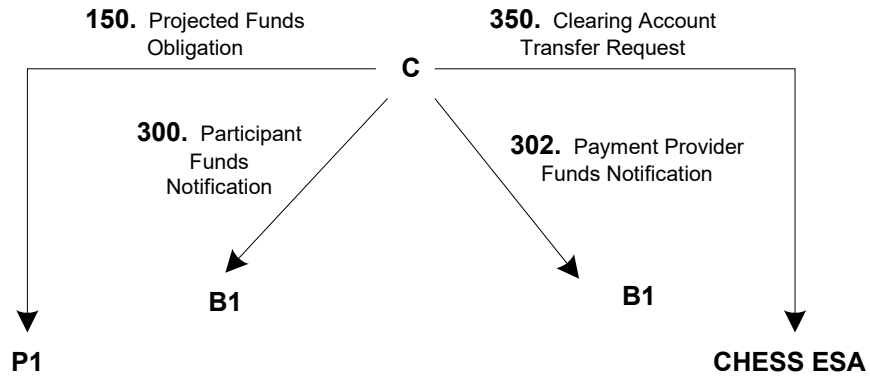
5.2.26. Single Entry Settlement CHES to CHES Transfer

(Refer also to section 6.4 for Transaction Id usage.)



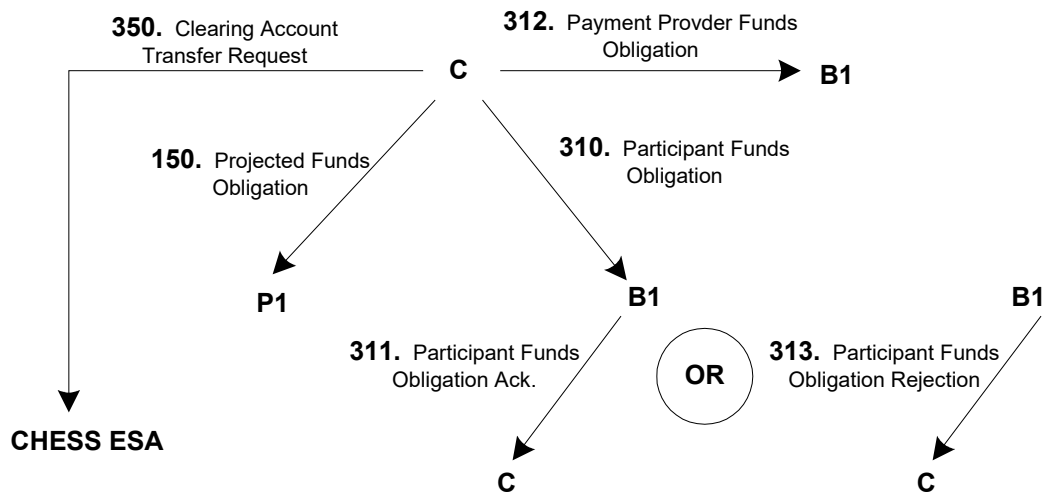
5.2.27. Funds Notification

(Refer also to section 6.12 for Transaction Id usage for message 300.)



5.2.28. Funds Authorisation

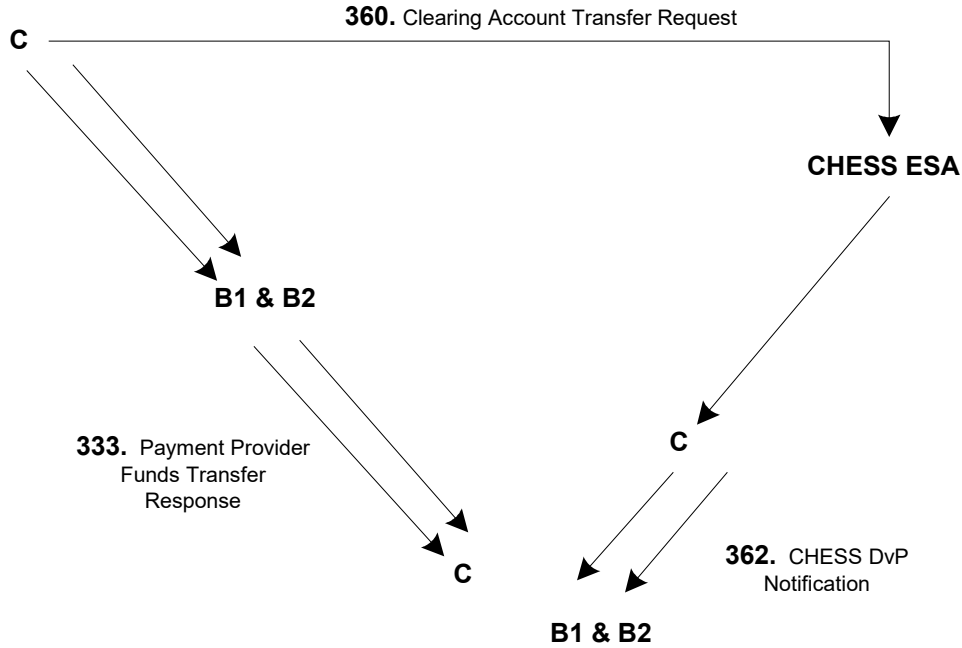
(Refer also to section 6.12 for Transaction Id usage for messages 310, 311 and 313.)



Note: CHES payment provider messages are no longer used. CHES ESA handles all postings and reconciliation.

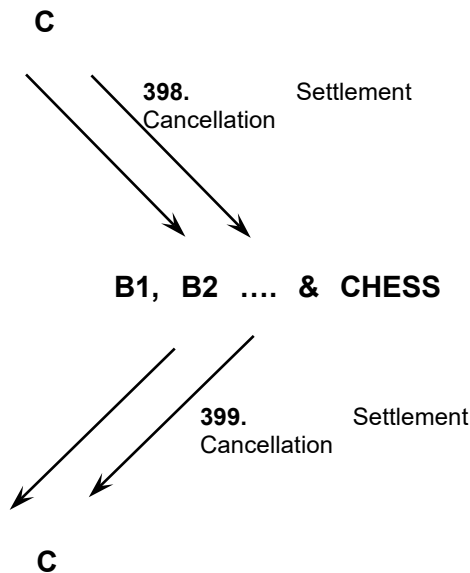
5.2.29. Funds Transfer

(Refer also to section 6.13 for Transaction Id usage.)



5.2.30. Funds Cancellation

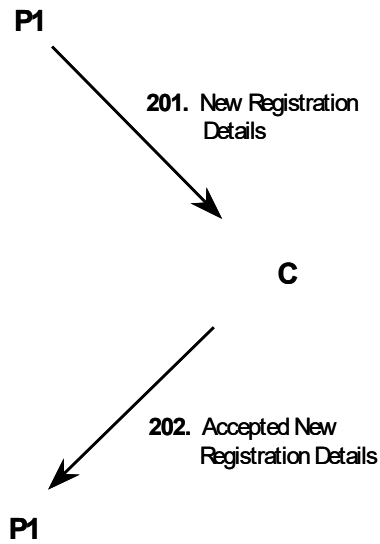
(Refer also to section 6.14 for Transaction Id usage.)



Note: CHES payment provider messages are no longer used. CHES ESA handles all postings and reconciliation.

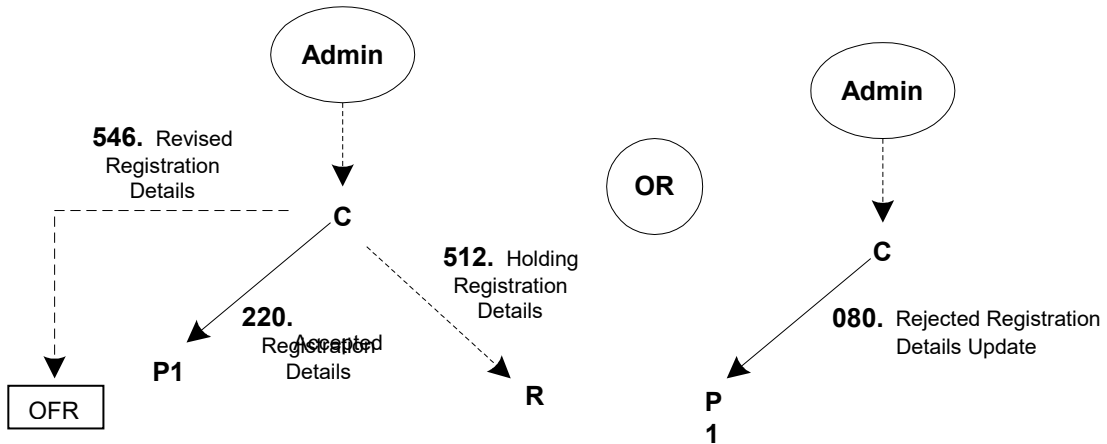
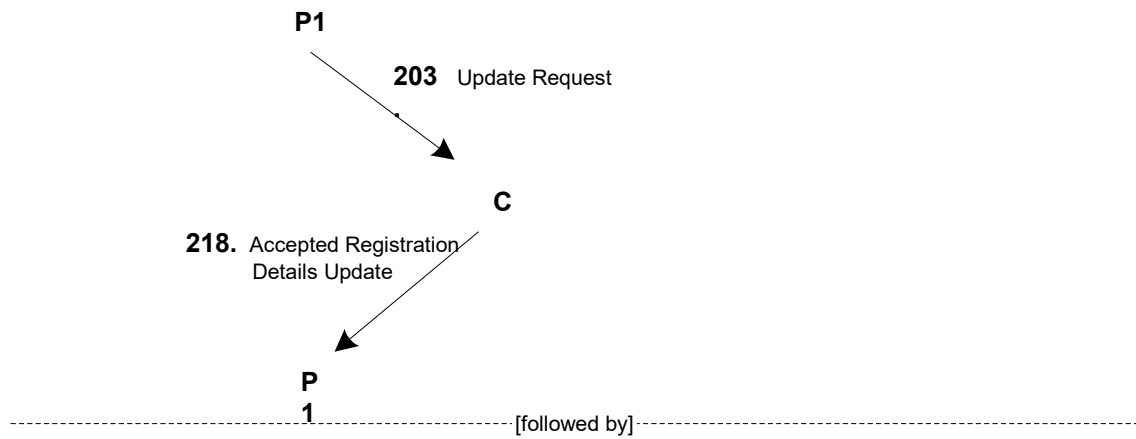
5.2.31. New Registration Details

(Refer also to section 6.1 for Transaction Id usage.)



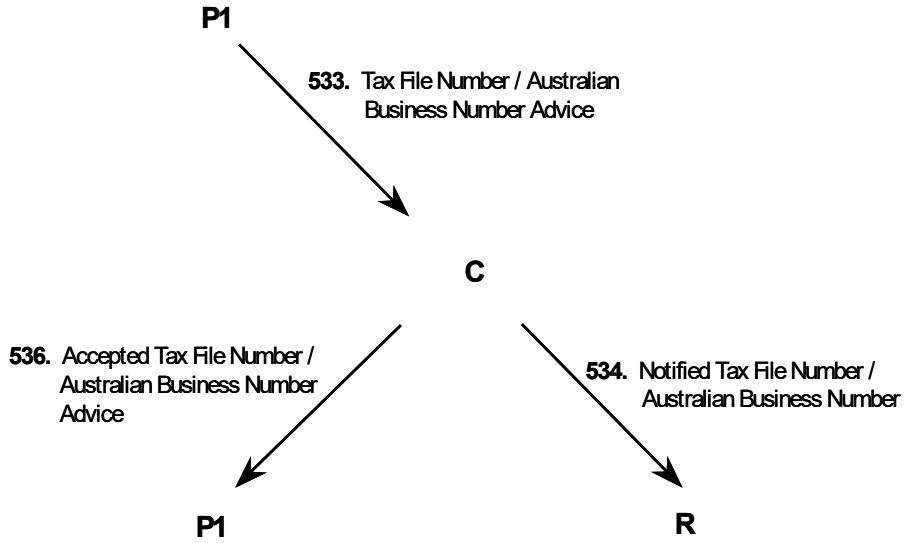
5.2.32. Update Registration Details

(Refer also to section 6.16 for Transaction Id usage.)



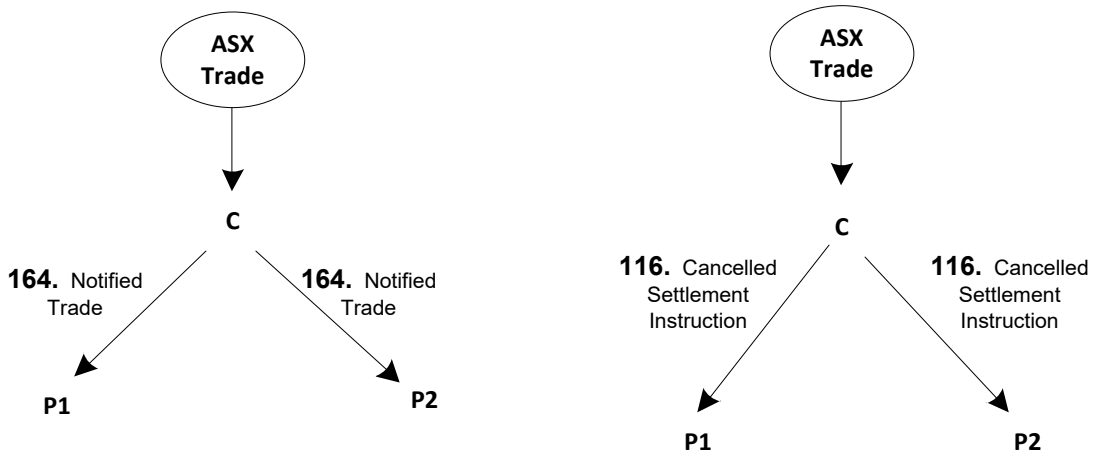
5.2.33. Tax File Number / Australian Business Number Advice

(Refer also to section 6.2 for Transaction Id usage.)



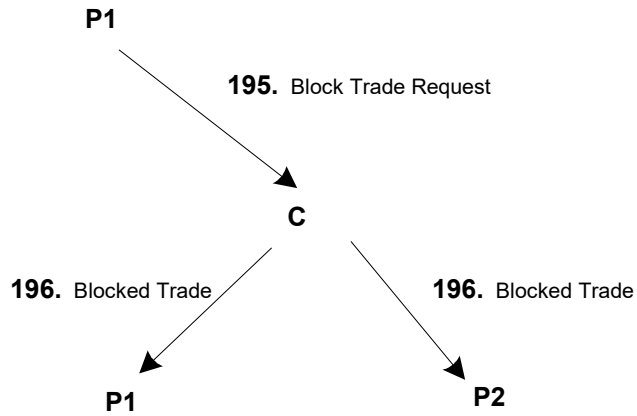
5.2.34. Notified Trades and Cancellations

(Refer also to section 6.7 for Transaction Id usage.)



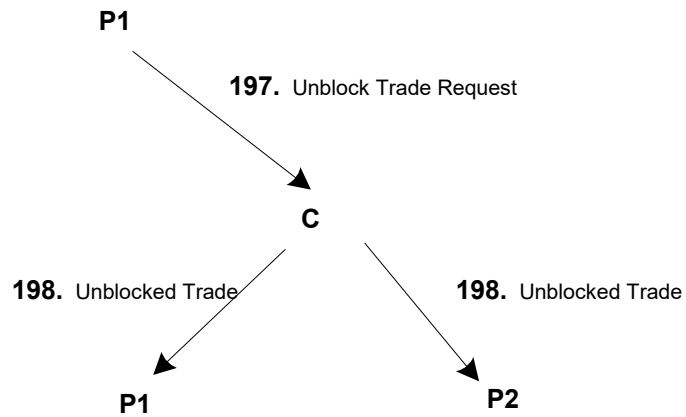
5.2.35. Blocked Trade

(Refer also to section 6.8 for Transaction Id usage.)



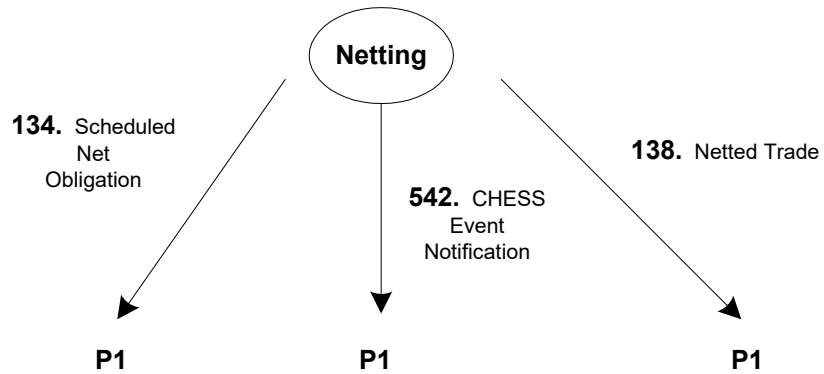
5.2.36. Unblocked Trade

(Refer also to section 6.8 for Transaction Id usage.)



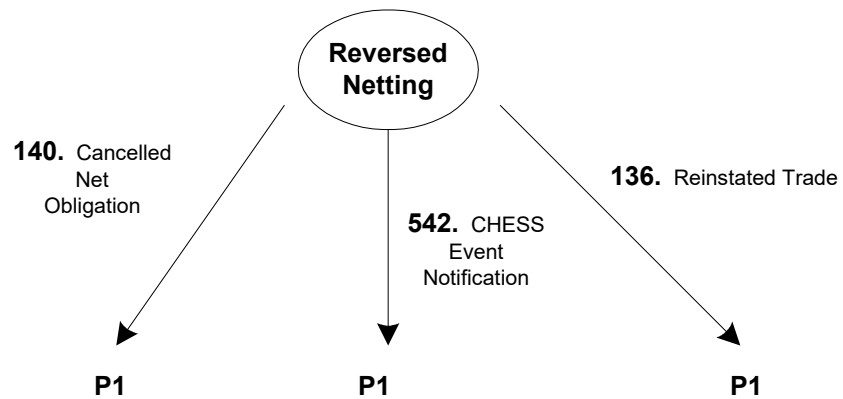
5.2.37. Netting

(Refer also to section 6.9 for Transaction Id usage.)

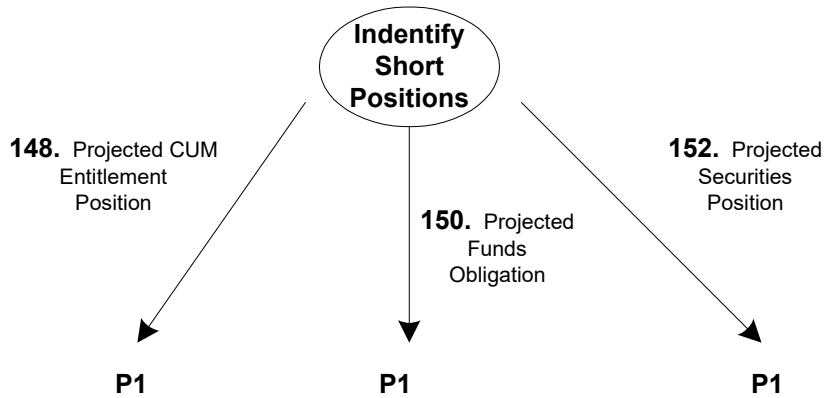


5.2.38. Netting Reversal

(Refer also to section 6.9 for Transaction Id usage.)

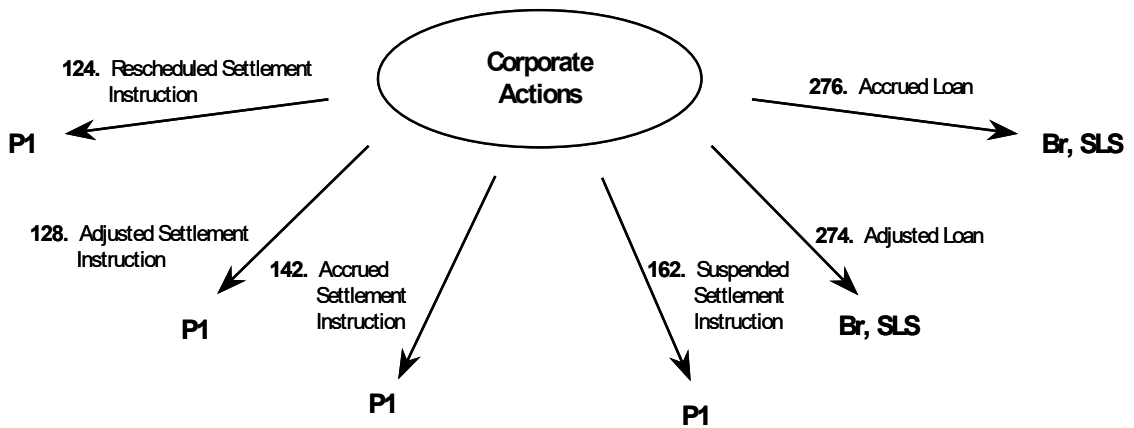


5.2.39. Identify Short Positions



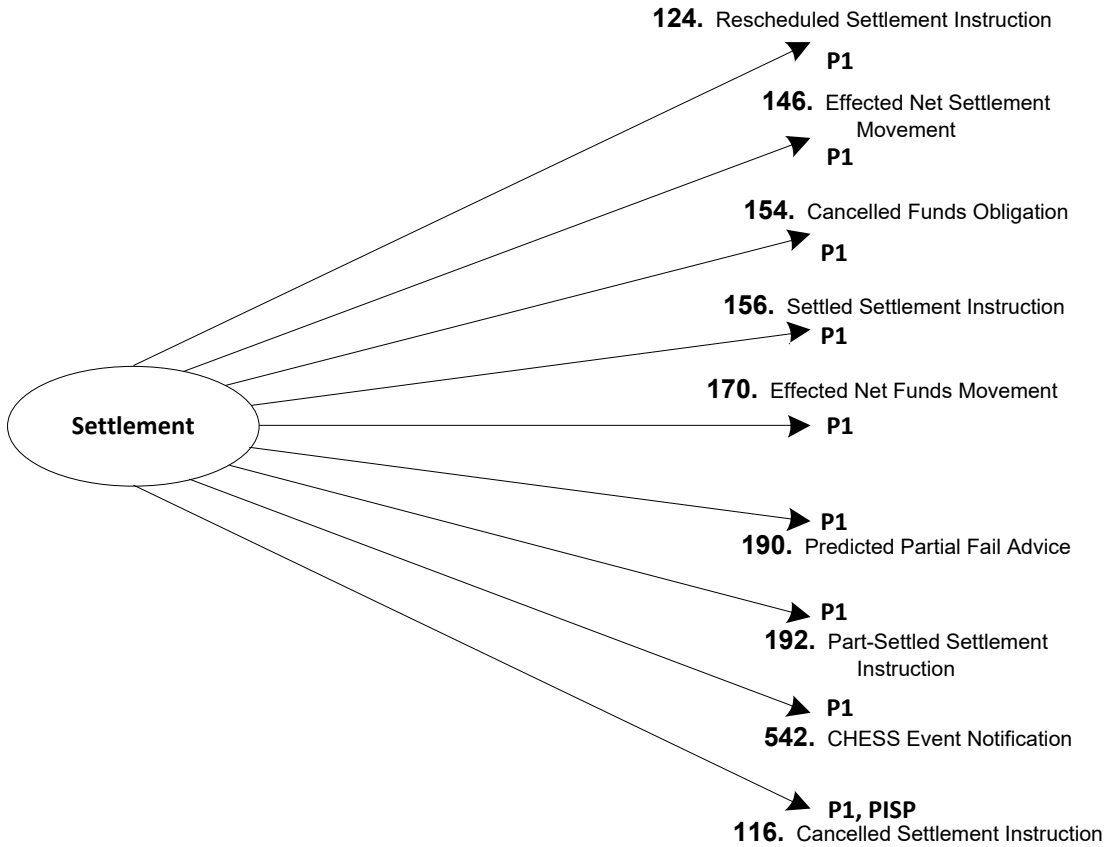
5.2.40. Corporate Actions

(Refer also to section 6.10 for Transaction Id usage.)



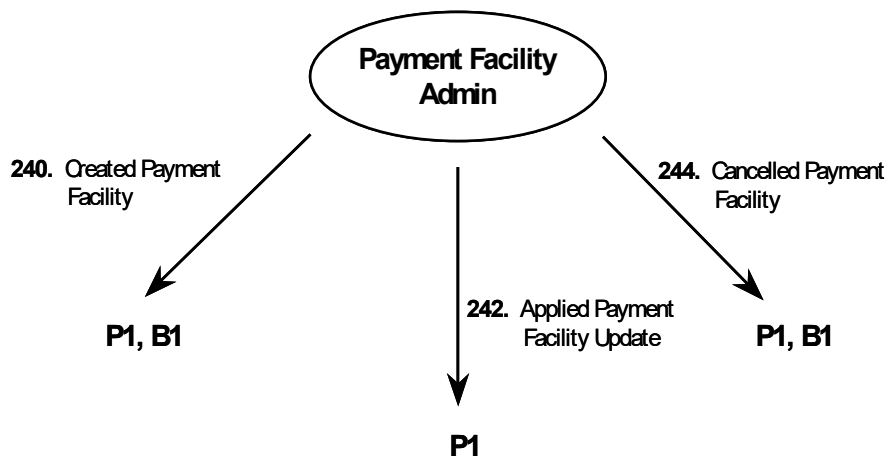
5.2.41. Settlement

(Refer also to section 6.11 for Transaction Id usage.)



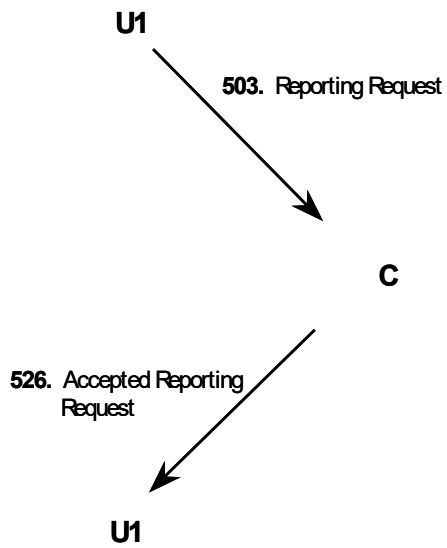
5.2.42. Payment Facility Administration

(Example for Transaction Id usage to be advised.)



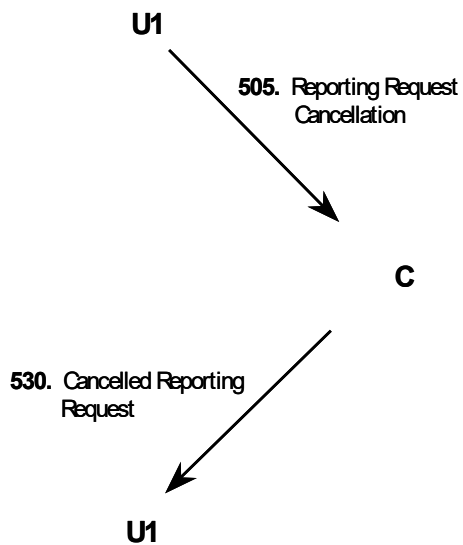
5.2.43. Reporting Request

(Refer also to section 6.1 for Transaction Id usage.)



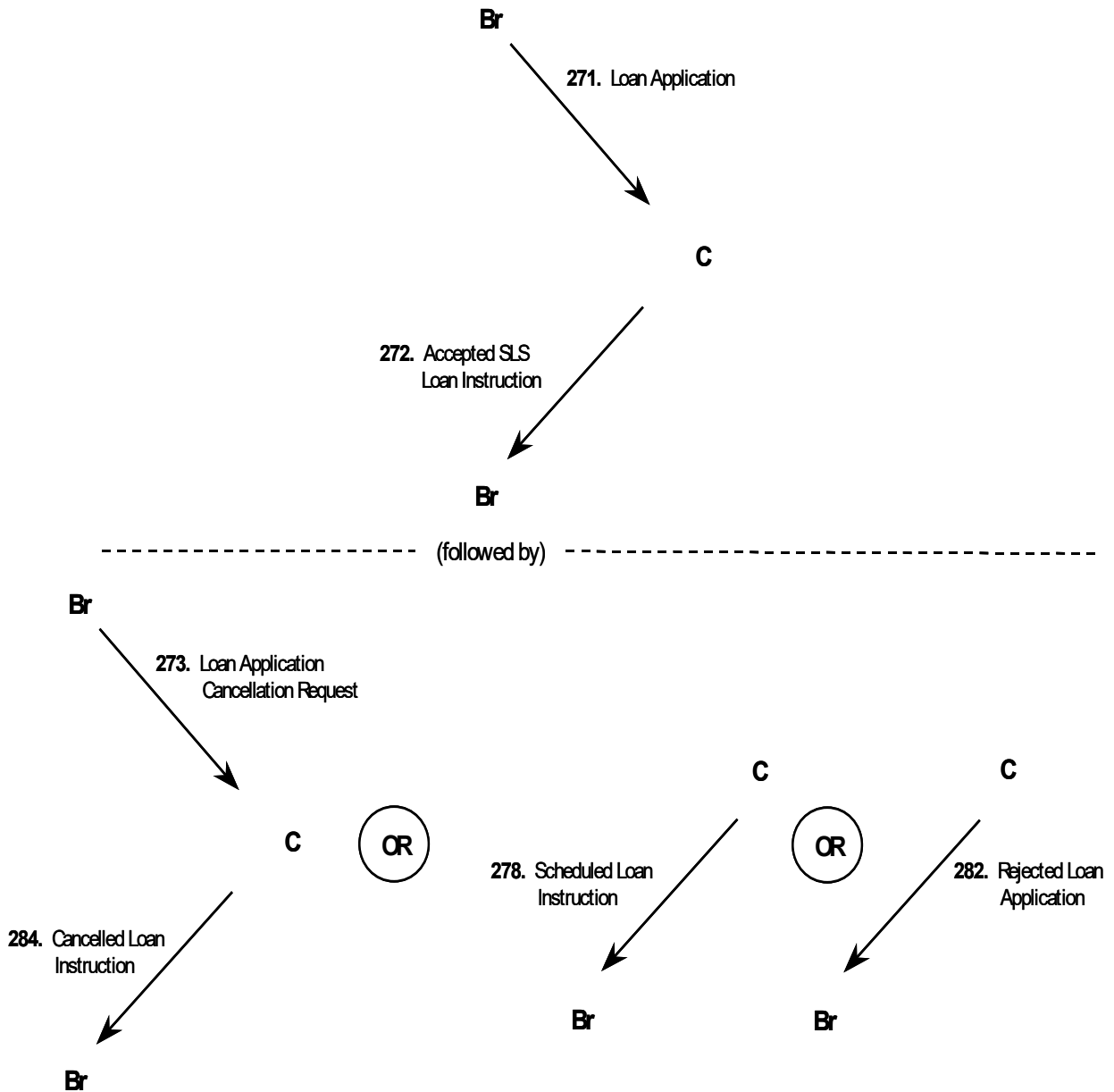
5.2.44. Reporting Request Cancellation

(Refer also to section 6.15 for Transaction Id usage.)



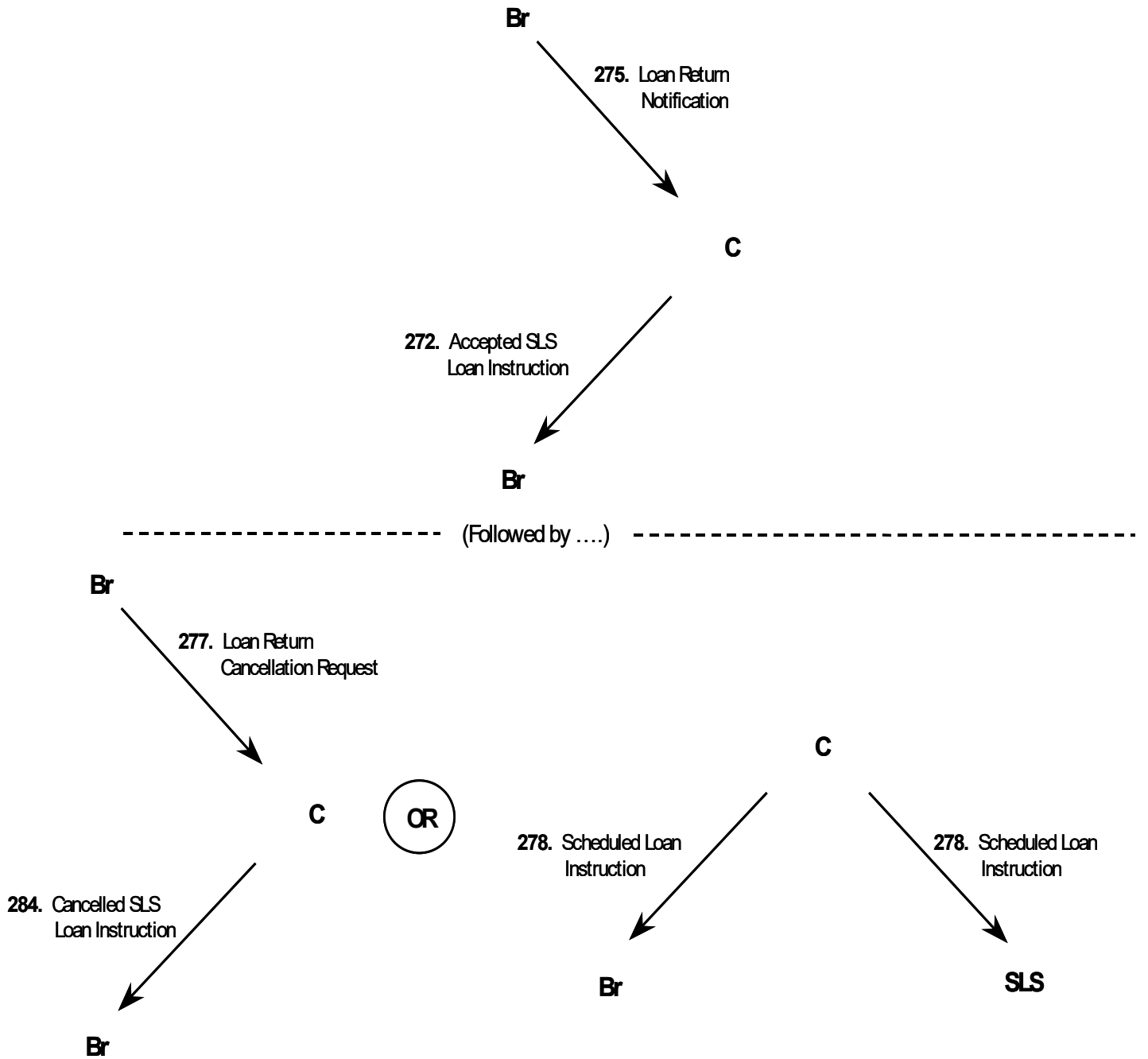
5.2.45. Loan Application

(Refer also to section 6.19 for Transaction Id usage.)



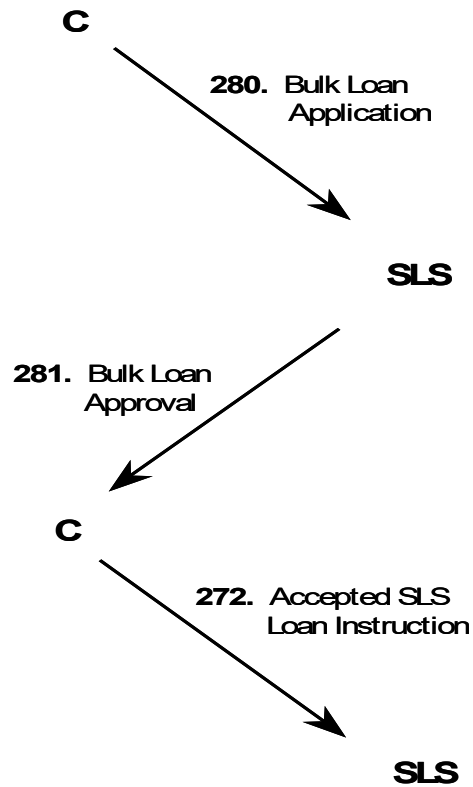
5.2.46. Loan Return

(Refer also to section 6.20 for Transaction Id usage.)

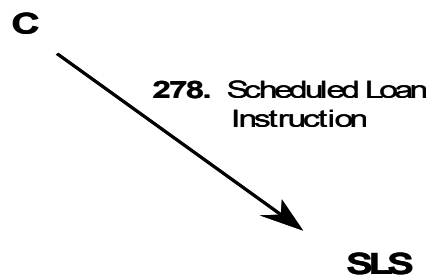


5.2.47. Bulk Loan Application

(Refer also to section 6.21 for Transaction Id usage.)

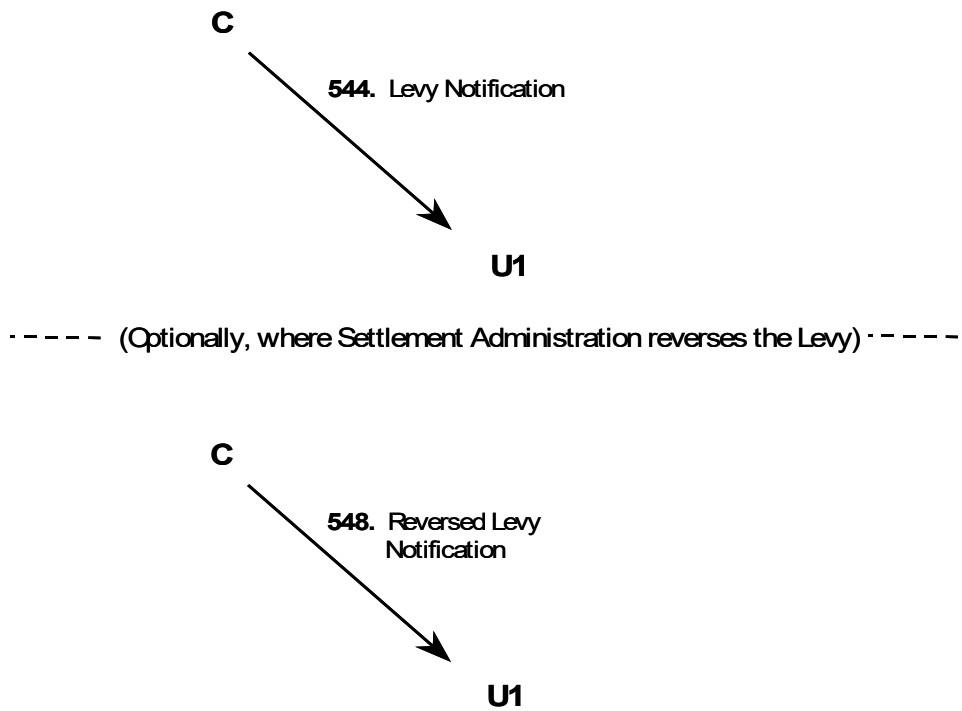


(Subject to Bulk Loan Approval being non-zero,
followed by ...)



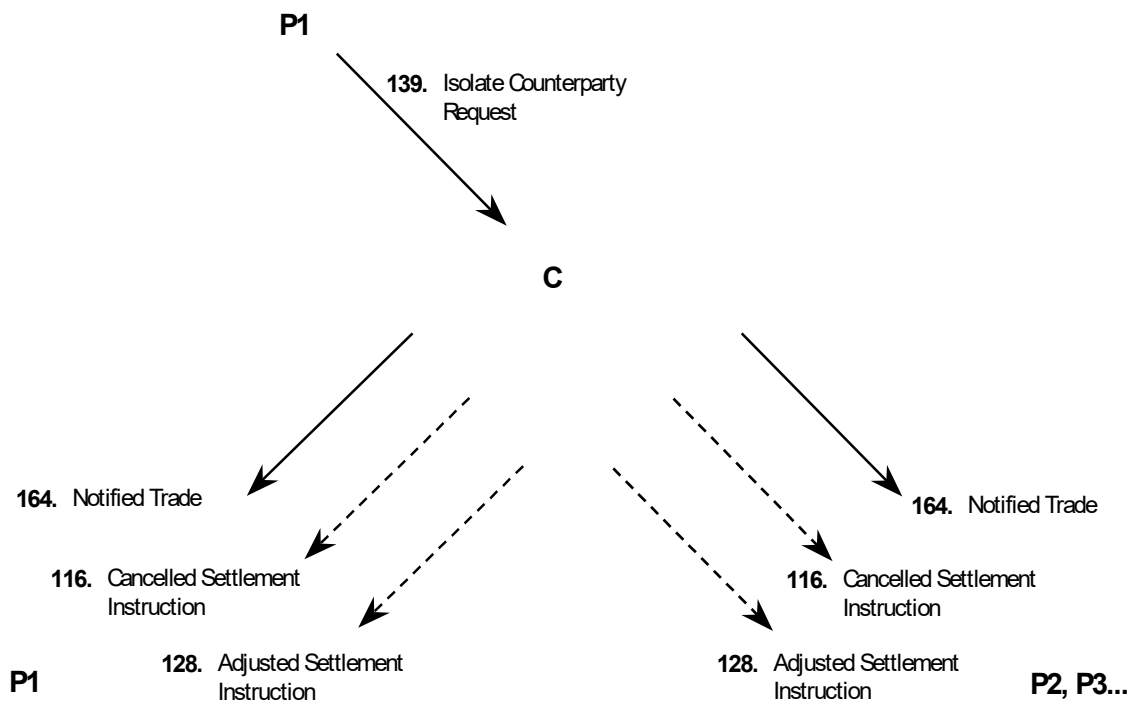
5.2.48. Levy Notification and Reversal

(Refer also to section 6.22 for Transaction Id usage.)



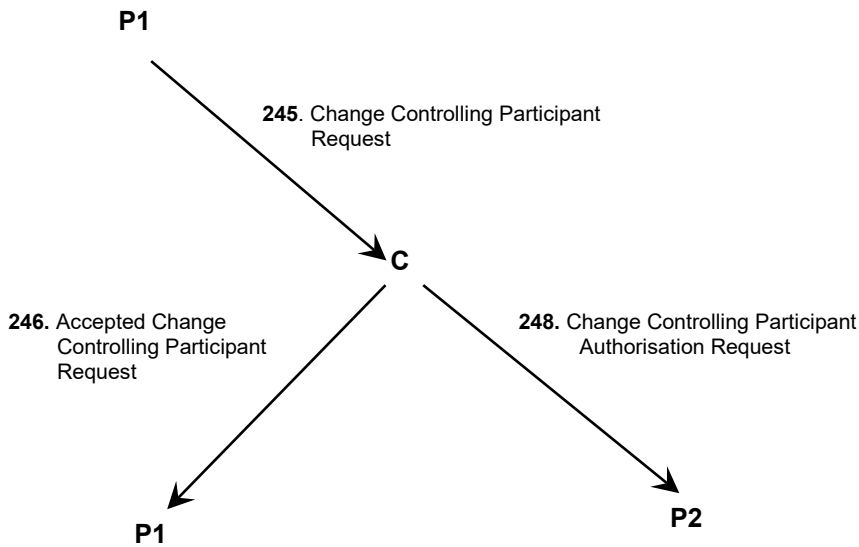
5.2.49. Isolate Counterparty

(Refer also to section 6.24 for Transaction Id usage.)

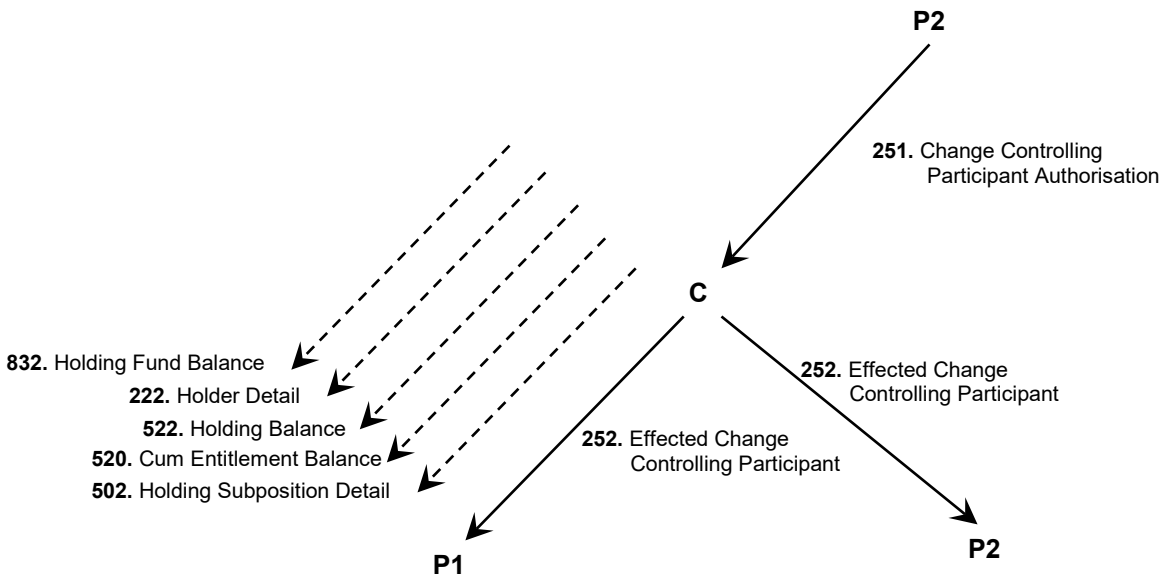


5.2.50. Change Controlling Participant and Cancel Change Controlling Participant

(Refer also to section 6.23 for Transaction Id usage)

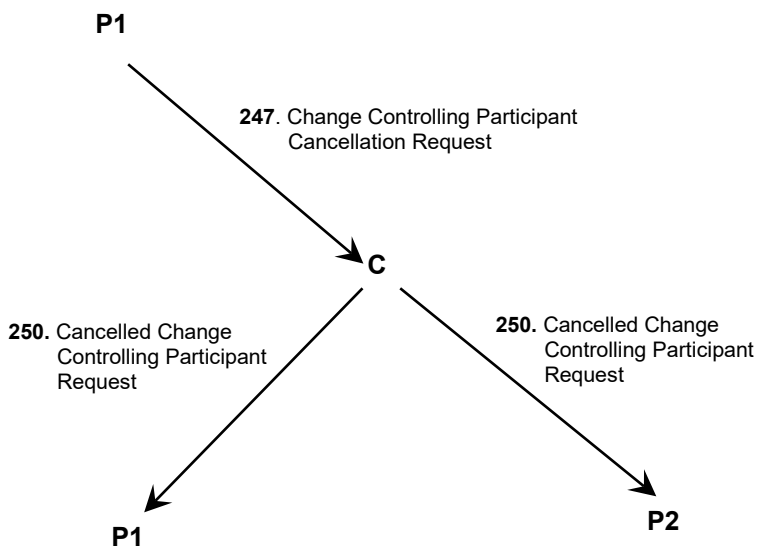
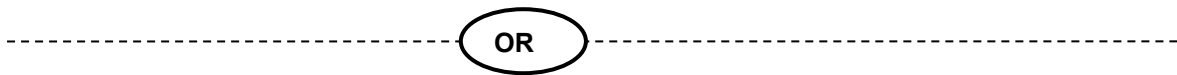
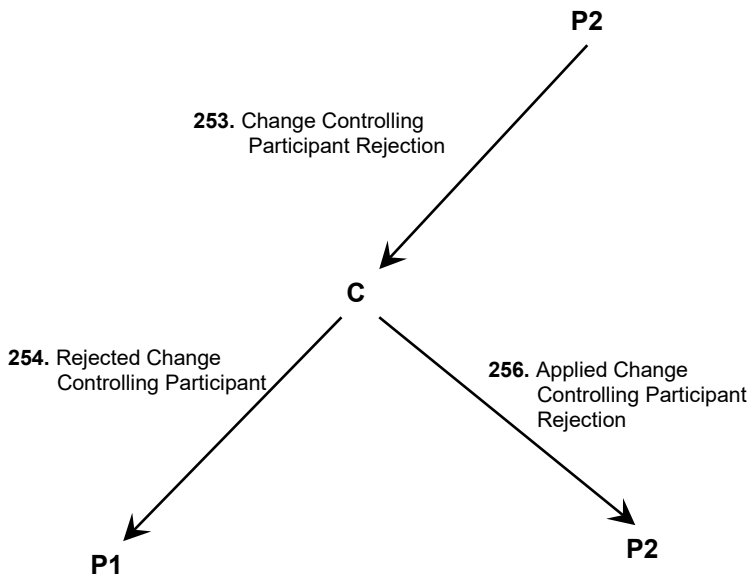


(followed by)



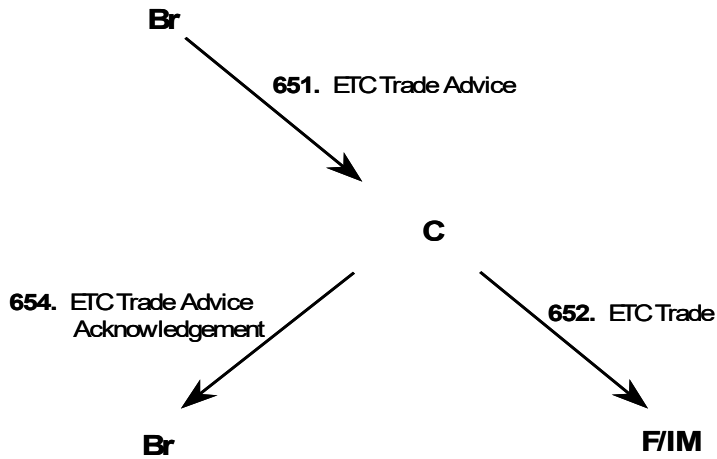
(Diagram is continued on next page)

(Diagram continued from previous page)



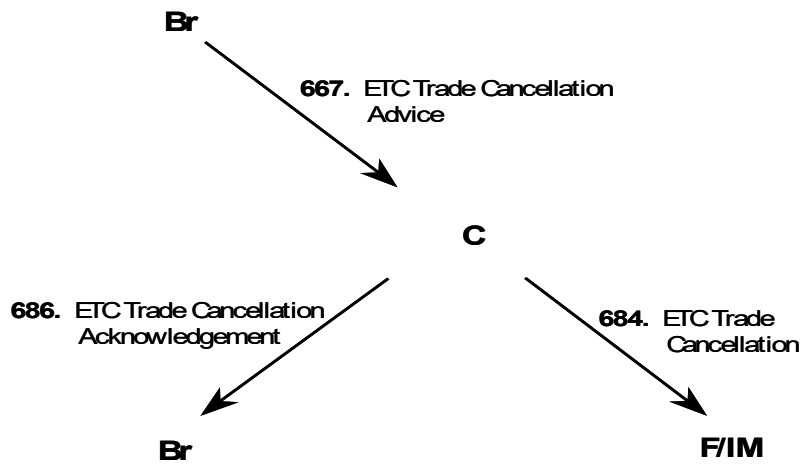
5.2.51. Advising a Fund/Investment Manager of a Block Trade

(Refer also to section 6.25 for Transaction Id usage.)



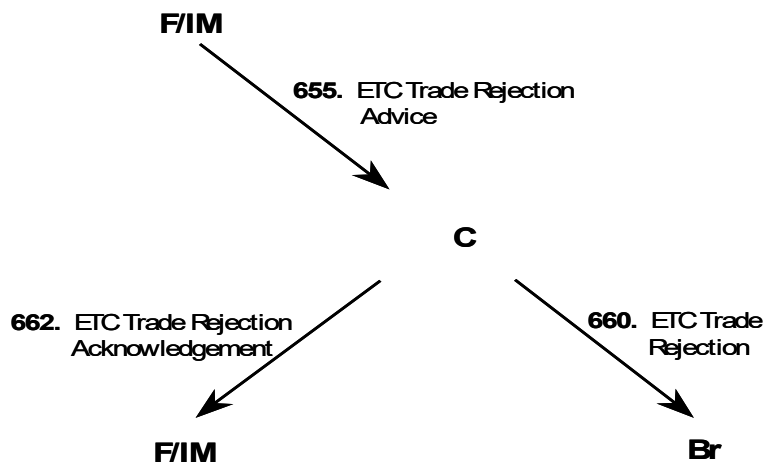
5.2.52. Cancelling an ETC Trade

(Refer also to section 6.25 for Transaction Id usage.)



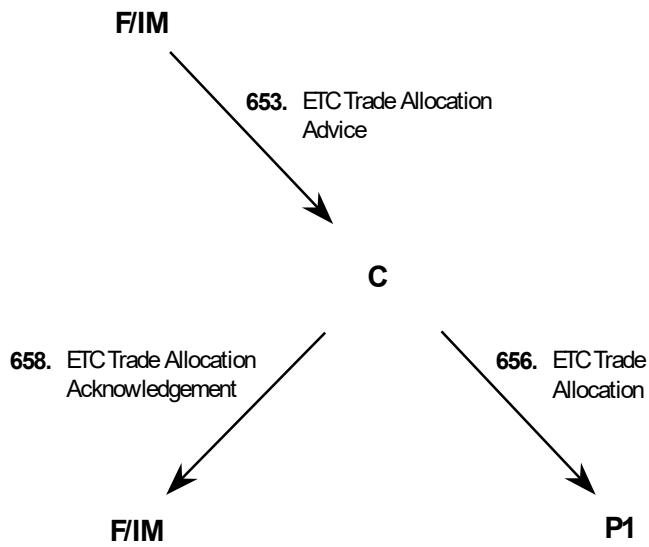
5.2.53. Rejecting a Block Trade

(Refer also to section 6.25 for Transaction Id usage)



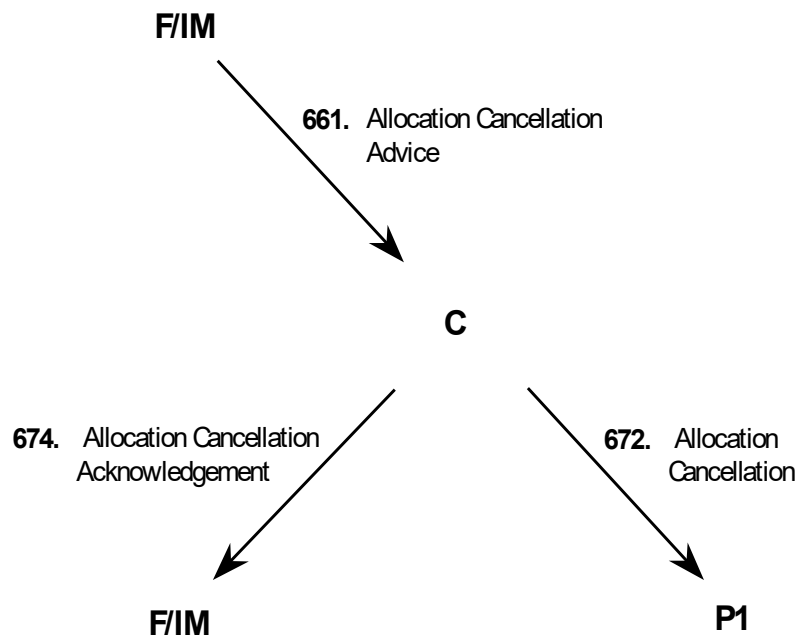
5.2.54. Allocating a Block Trade

(Refer also to section 6.25 for Transaction Id usage.)



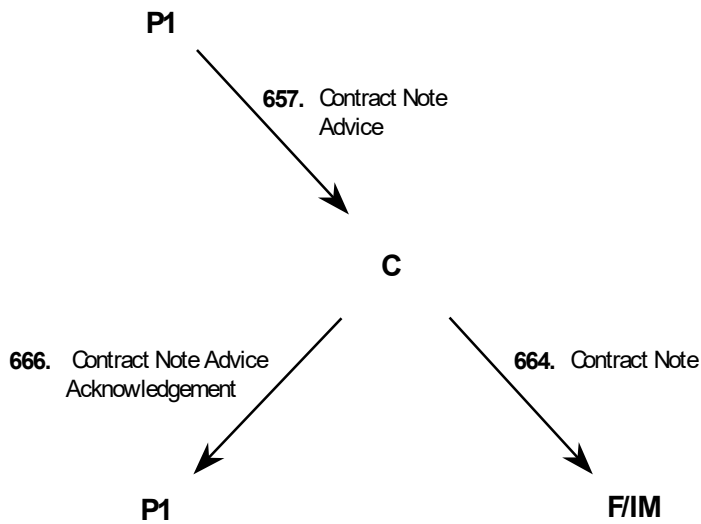
5.2.55. Cancelling a Block Trade Allocation

(Refer also to section 6.25 for Transaction Id usage.)



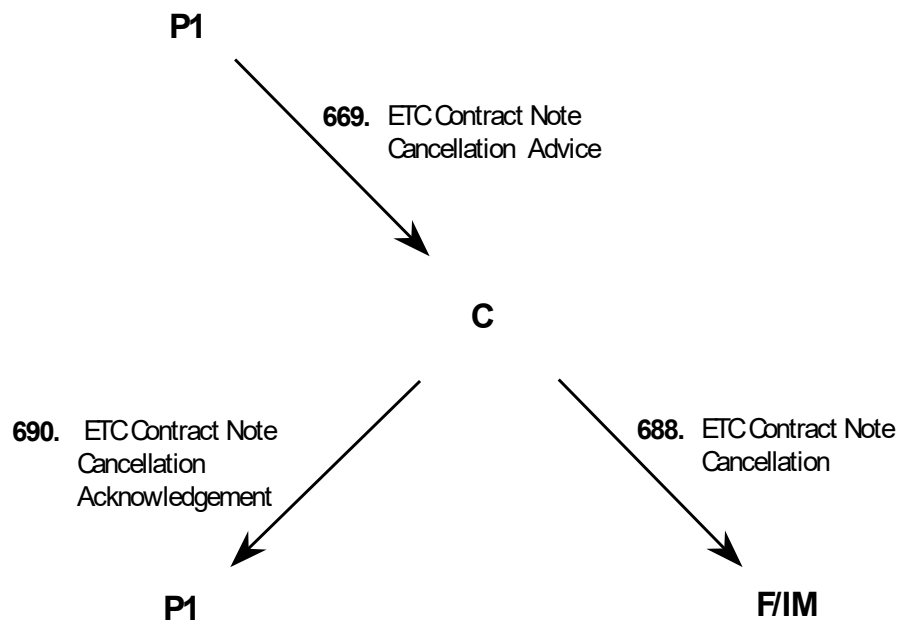
5.2.56. Advising a Fund/Investment Manager of Contract Note details

(Refer also to section 6.25 for Transaction Id usage.)



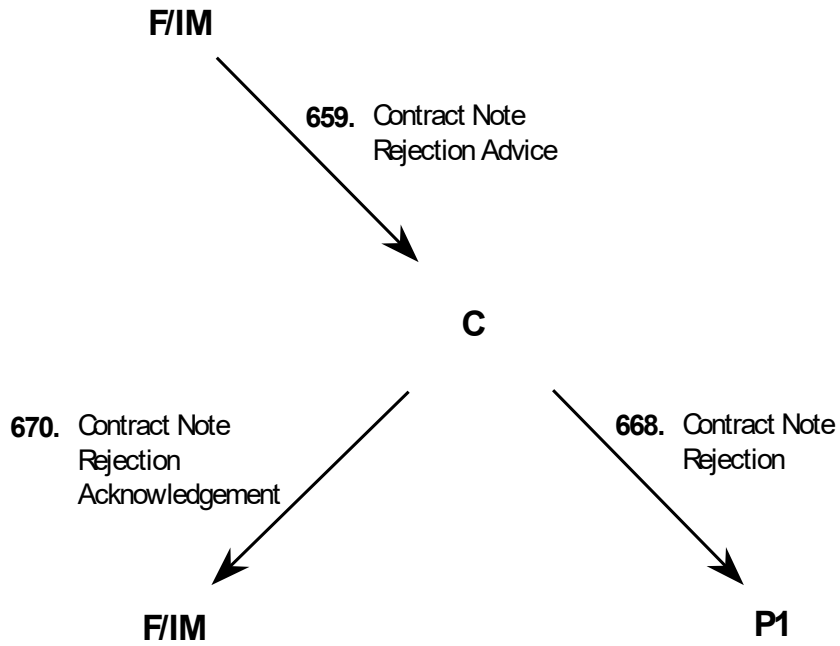
5.2.57. Cancelling a Contract Note

(Refer also to section 6.25 for Transaction Id usage.)



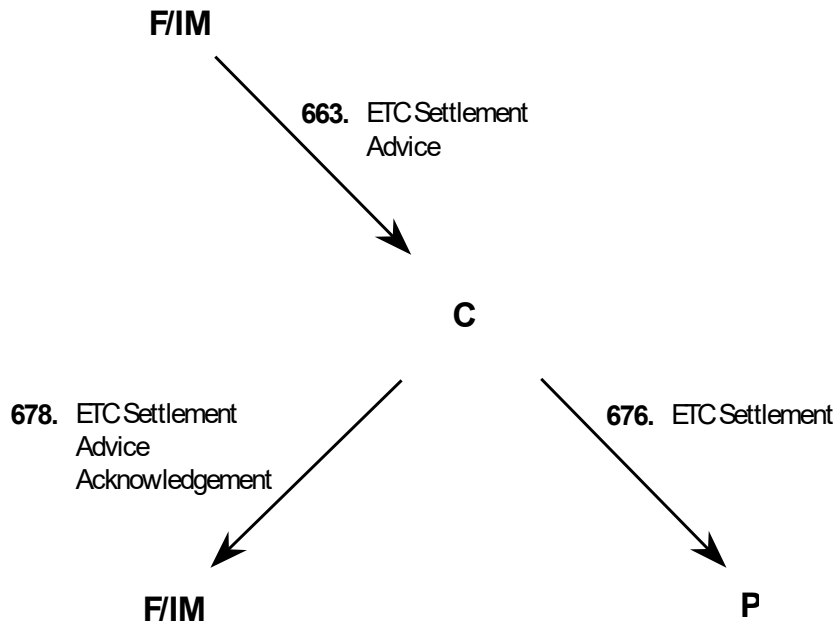
5.2.58. Rejecting a Contract Note

(Refer also to section 6.25 for Transaction Id usage.)



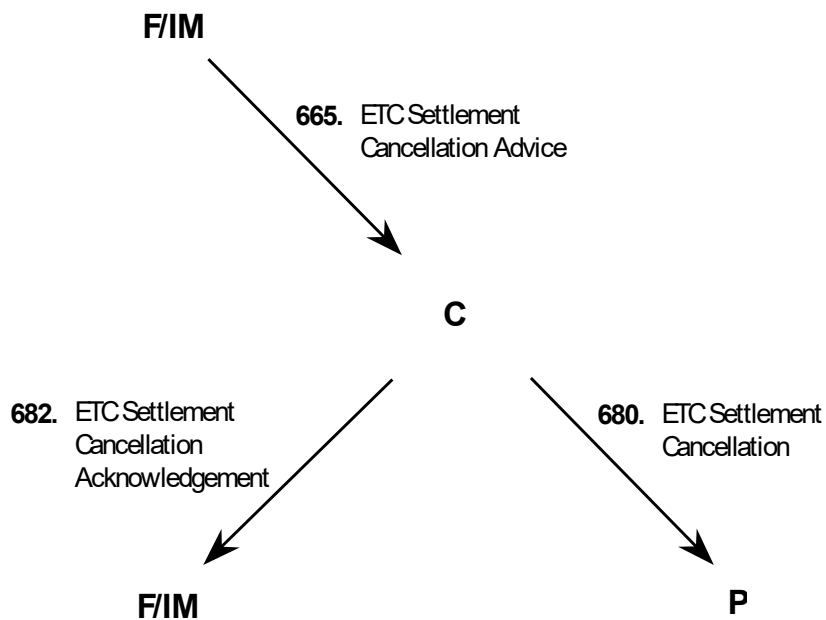
5.2.59. Advising a Settlement Agent of Settlement Details

(Refer also to section 6.25 for Transaction Id usage.)



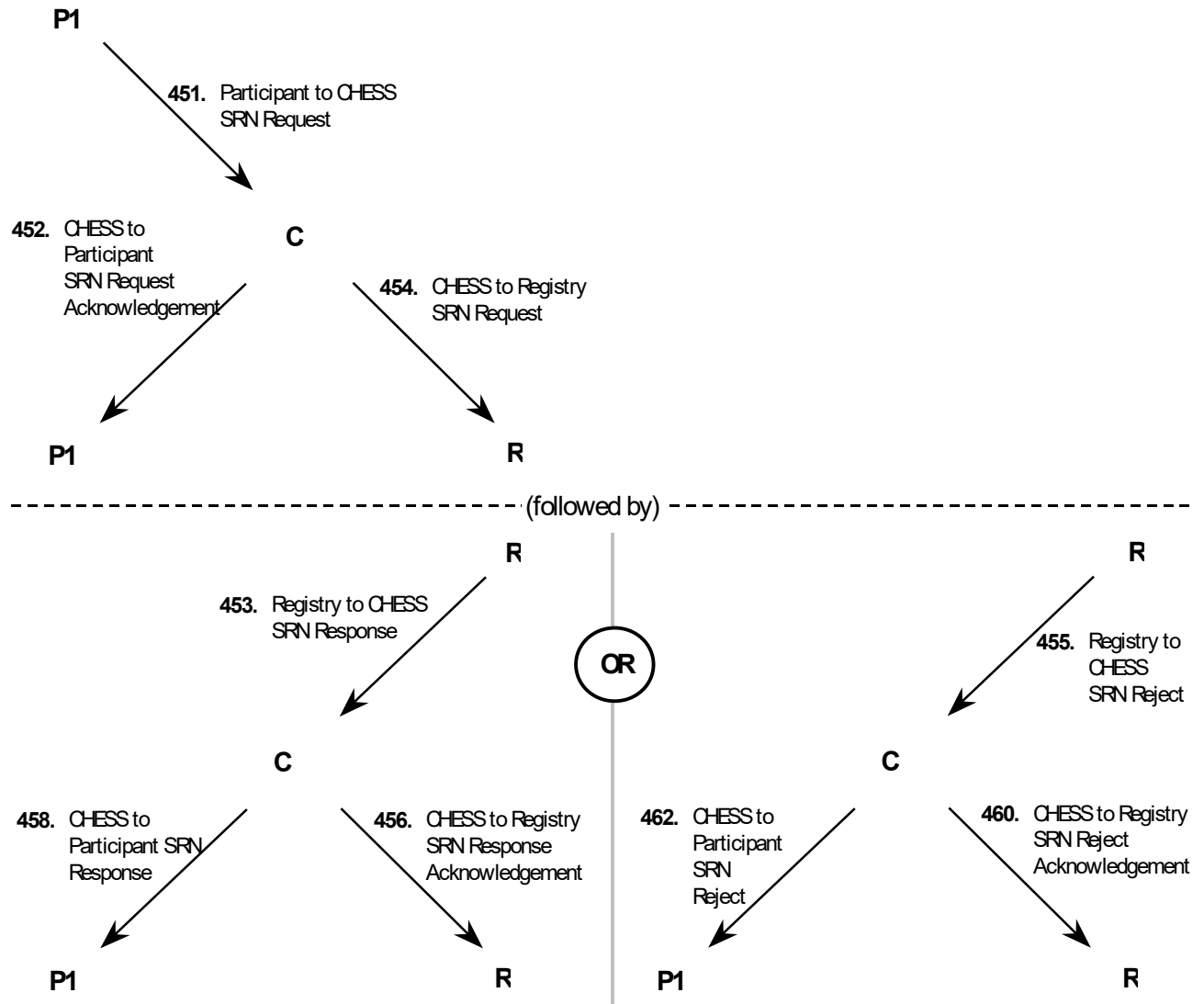
5.2.60. Advising Settlement Agent of Cancelled Settlement Details

(Refer also to section 6.25 for Transaction Id usage.)



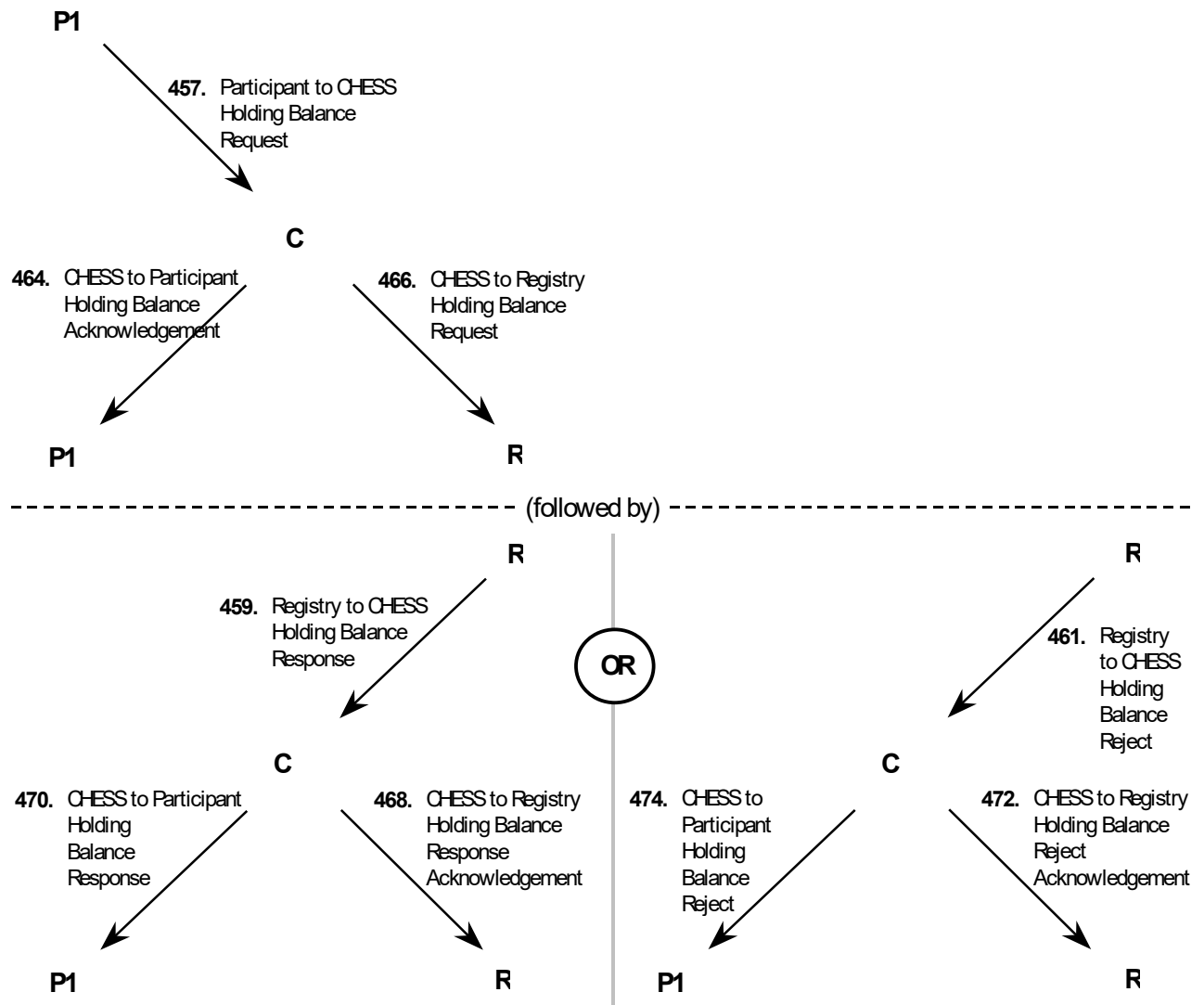
5.2.61. Issuer Sponsored SRN Enquiry

(Refer also to section 6.26 for Transaction Id usage.)



5.2.62. Issuer Sponsored Holding Balance Enquiry

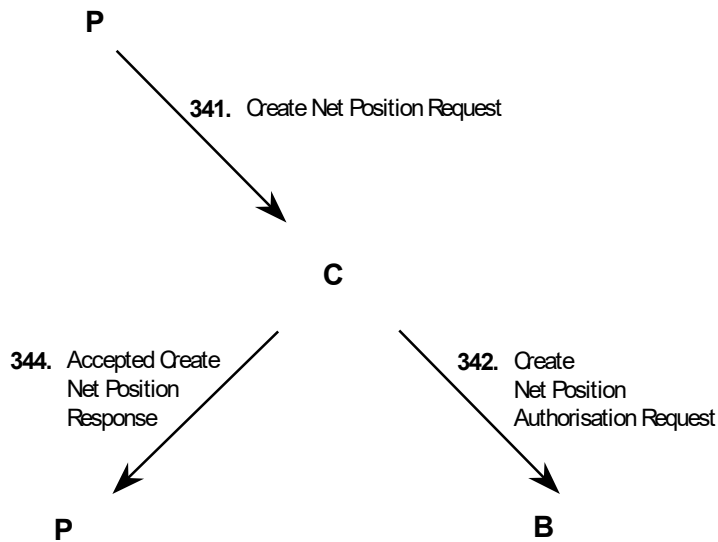
(Refer also to section 6.27 for Transaction Id usage.)



5.2.63. Create Net Position Record

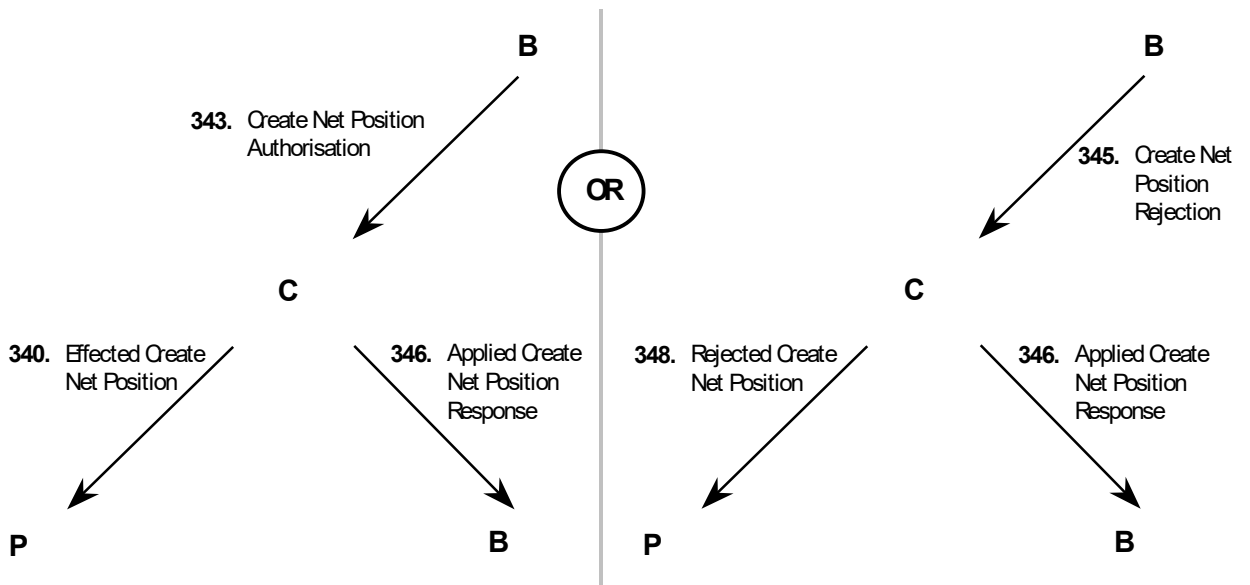
(Refer also to section 6.28 for Transaction Id usage.)

Function: Accept Create Net Position Record Request



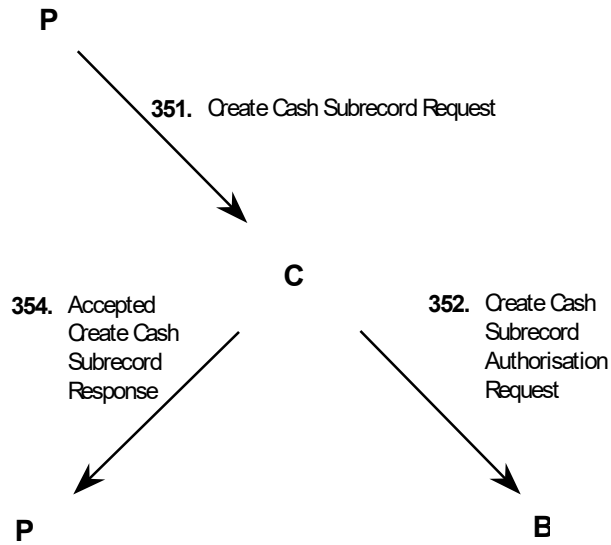
----- (followed by) -----

Function: Authorise Create Net Position Record Request



5.2.64. Create Cash Subrecord

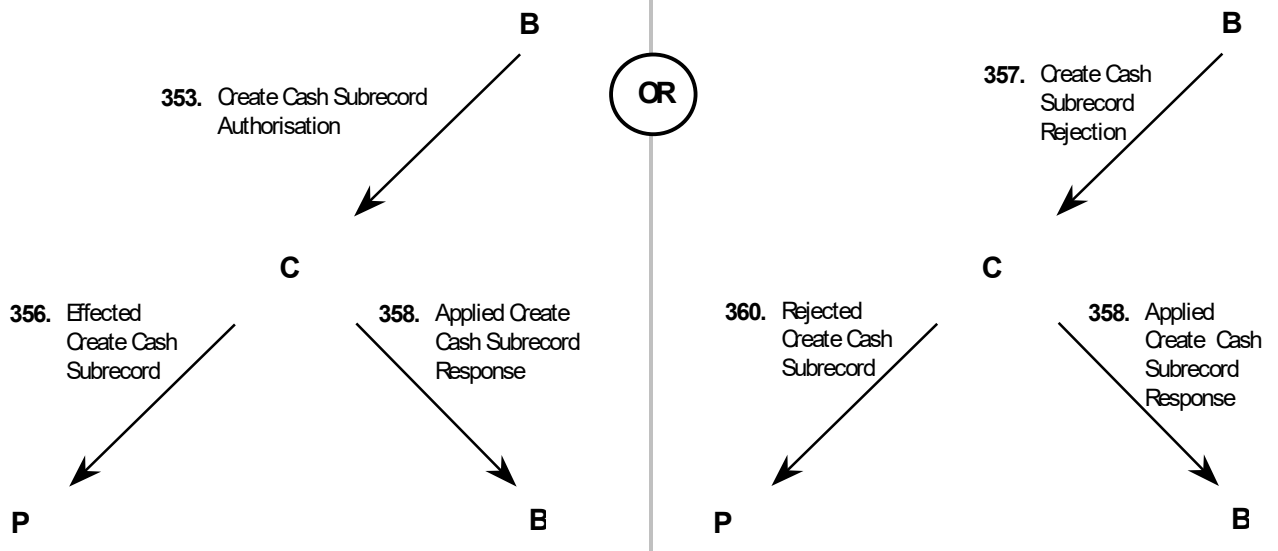
Function: Accept Create Cash Subrecord Attributes Request



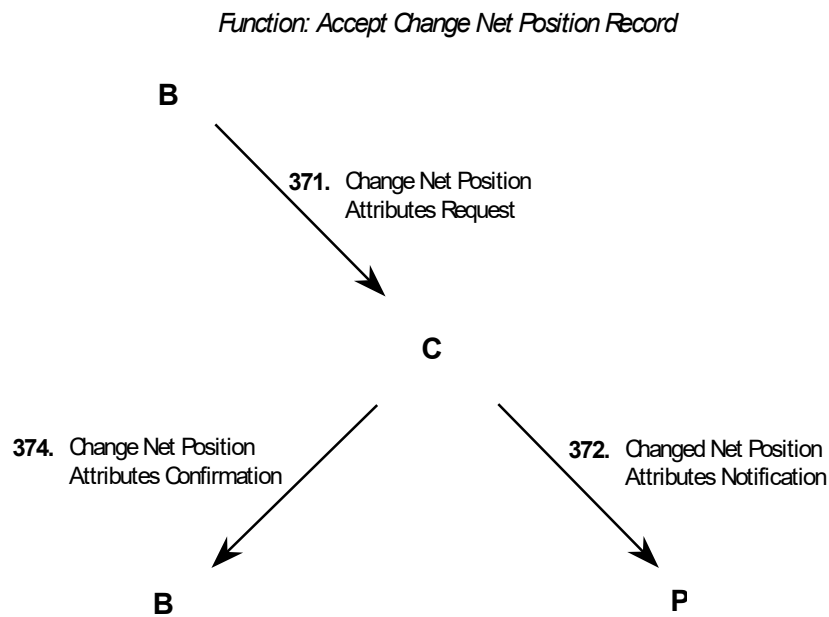
(followed by)

Function: Authorise Create Cash Subrecord Attributes Request

Function: Reject Create Cash Subrecord Attributes Request

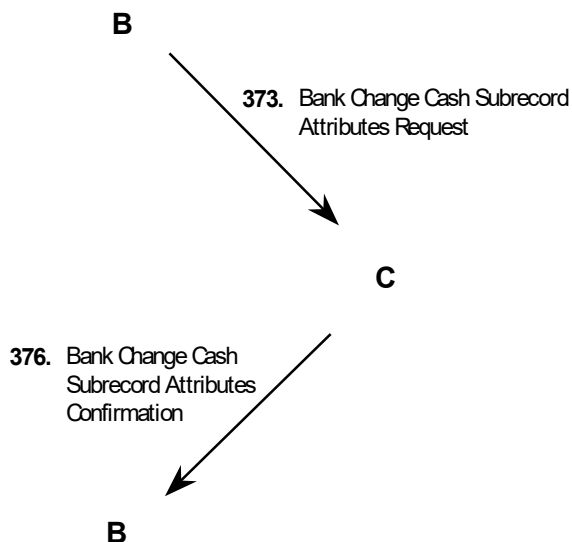


5.2.65. RTGS Bank-Initiated Change to Net Position Record

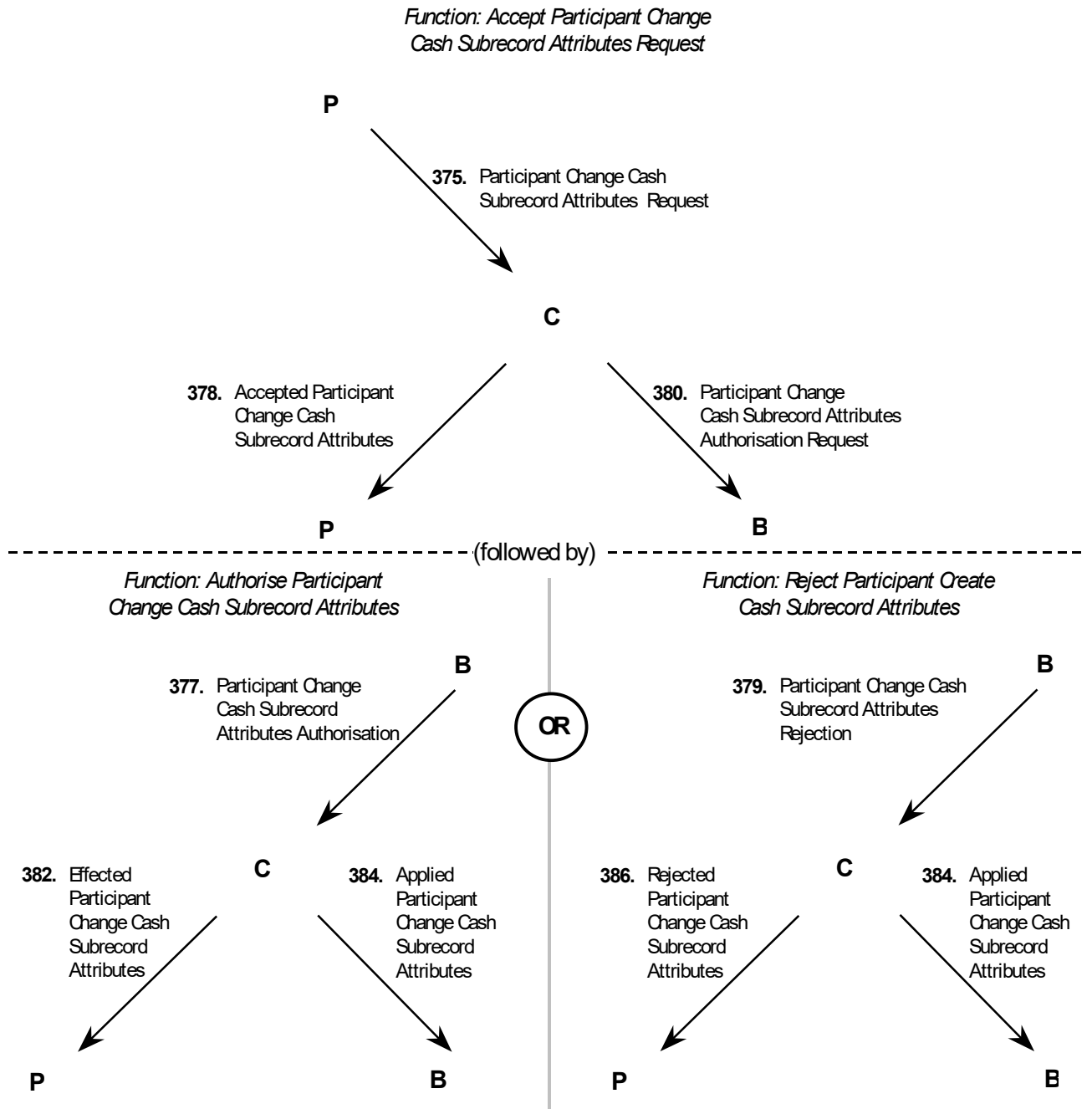


5.2.66. RTGS Bank-Initiated Change to Cash Subrecord

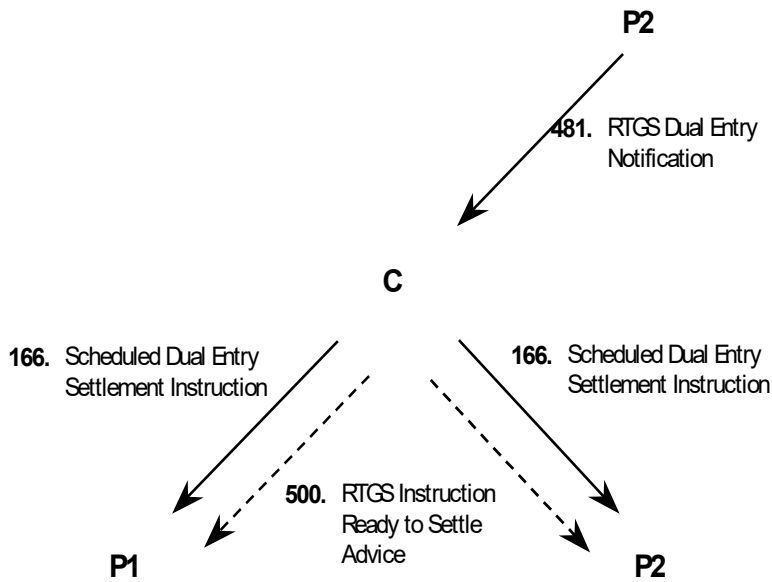
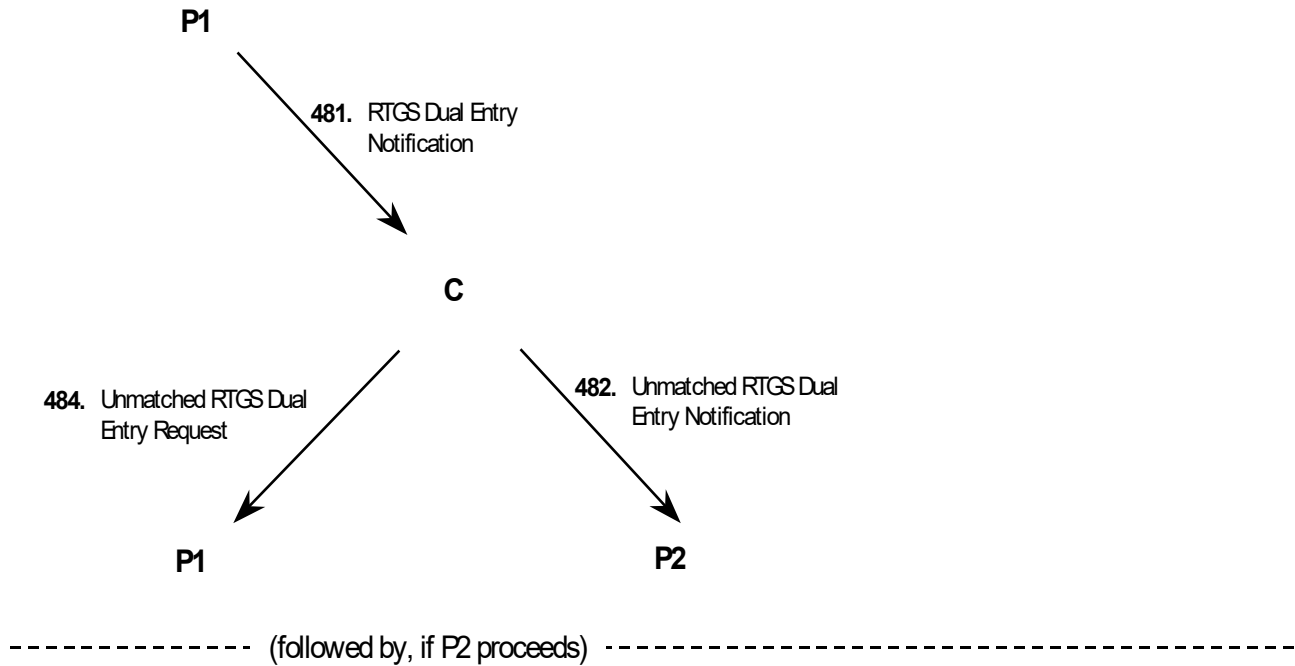
Function: Accept Change Cash Subrecord Attributes



5.2.67. Participant-Initiated Change to Cash Subrecord



5.2.68. Creation of RTGS Settlement Instruction

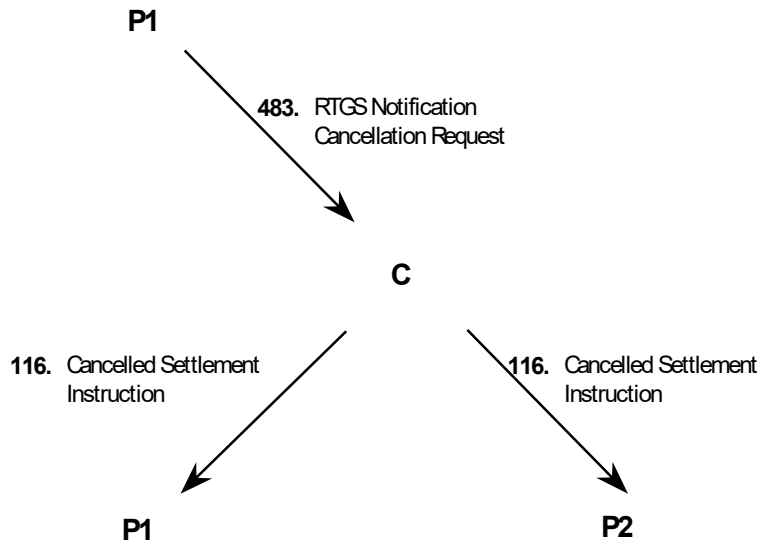


Note: 500 message will be sent to both P1 and P2 in the event that both parties have selected 'ready to settle' when submitting the 481 message. If one or both parties have not selected 'ready to settle' on the 481, then neither P1 nor P2 will receive the 500 message when the settlement instruction is scheduled. Instead, both P1 & P2 receive a 500 message when the party (parties) required to submit authorisation messages have done so.

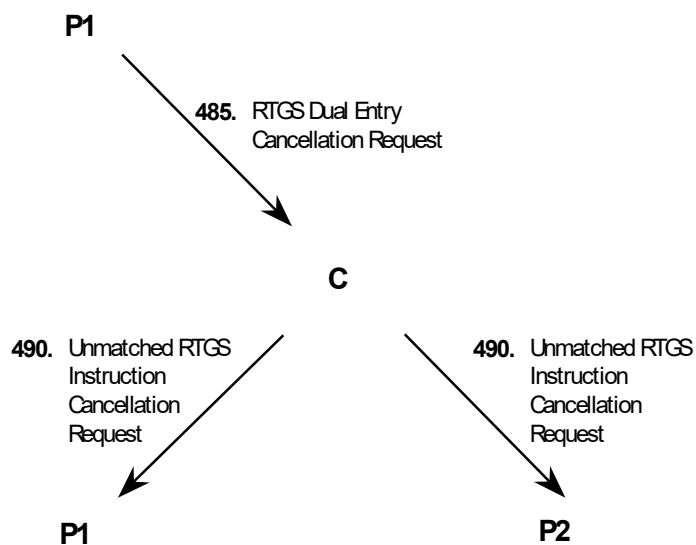
5.2.69. Cancellation of RTGS Settlement Instruction

(Refer also to section 6.2.9 for Transaction Id usage.)

*If P1 cancels before P2 has sent
481 'RTGS Dual Entry Notification' matching message*



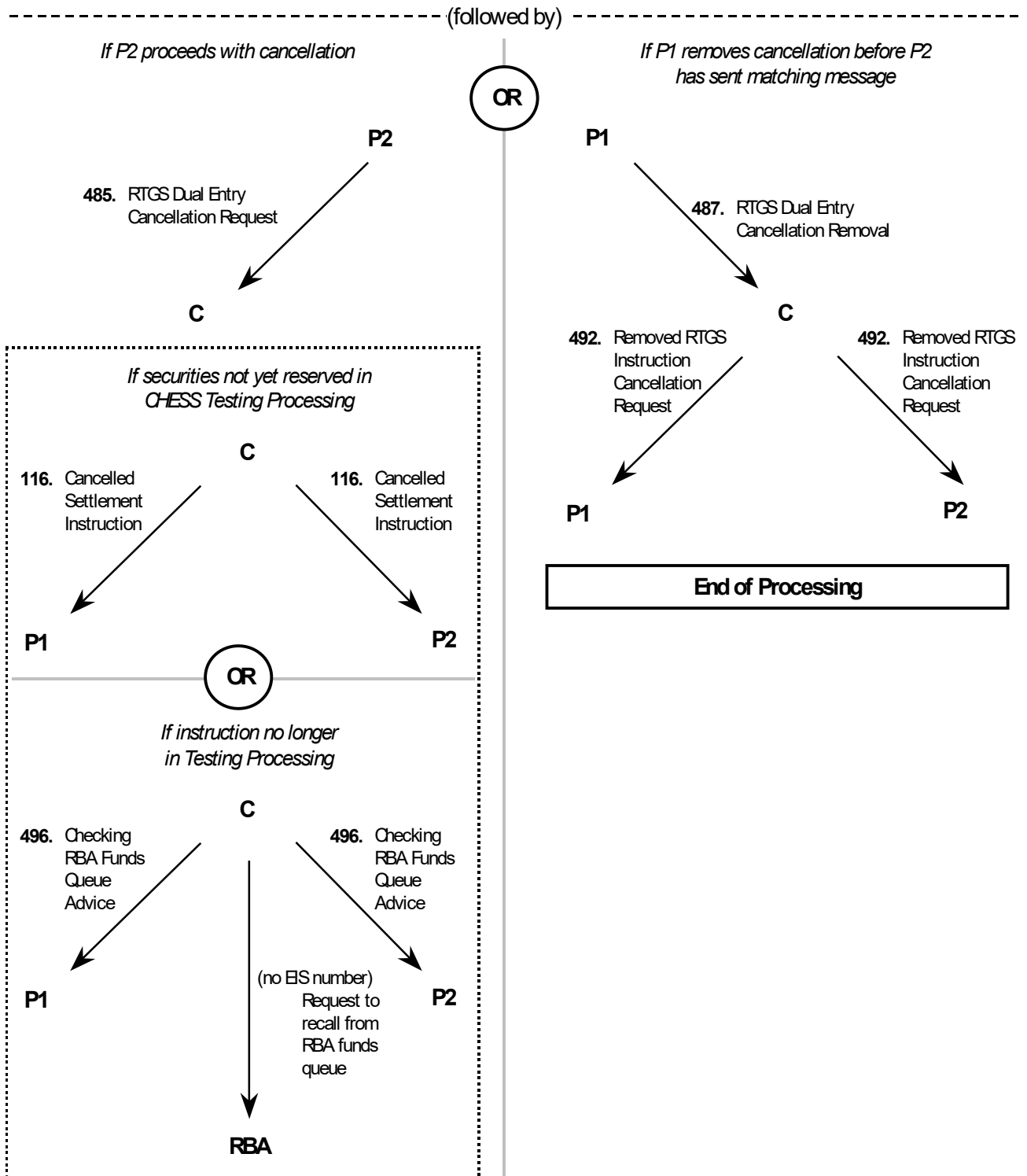
*If either party decides to cancel after settlement
instruction has been scheduled*



----- (followed by) -----

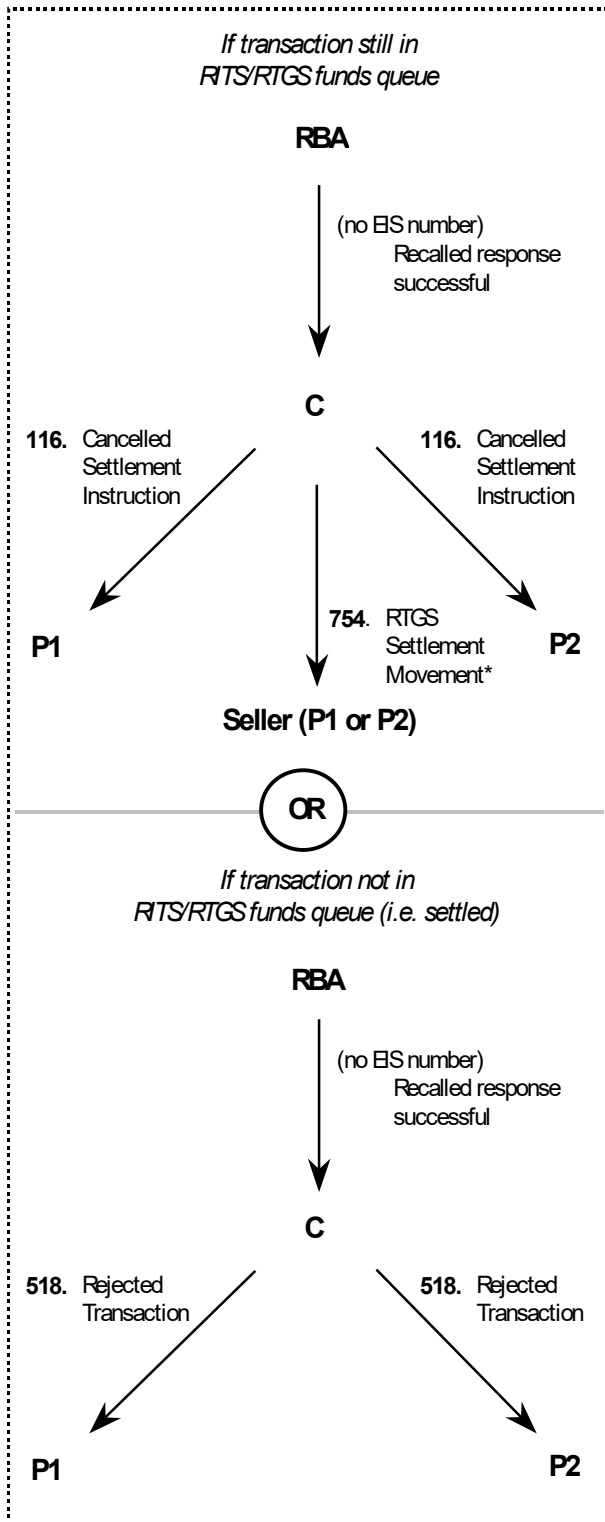
(Diagram is continued on next page)

(Diagram continued from previous page)



(Diagram is continued on next page)

(Diagram continued from previous page)

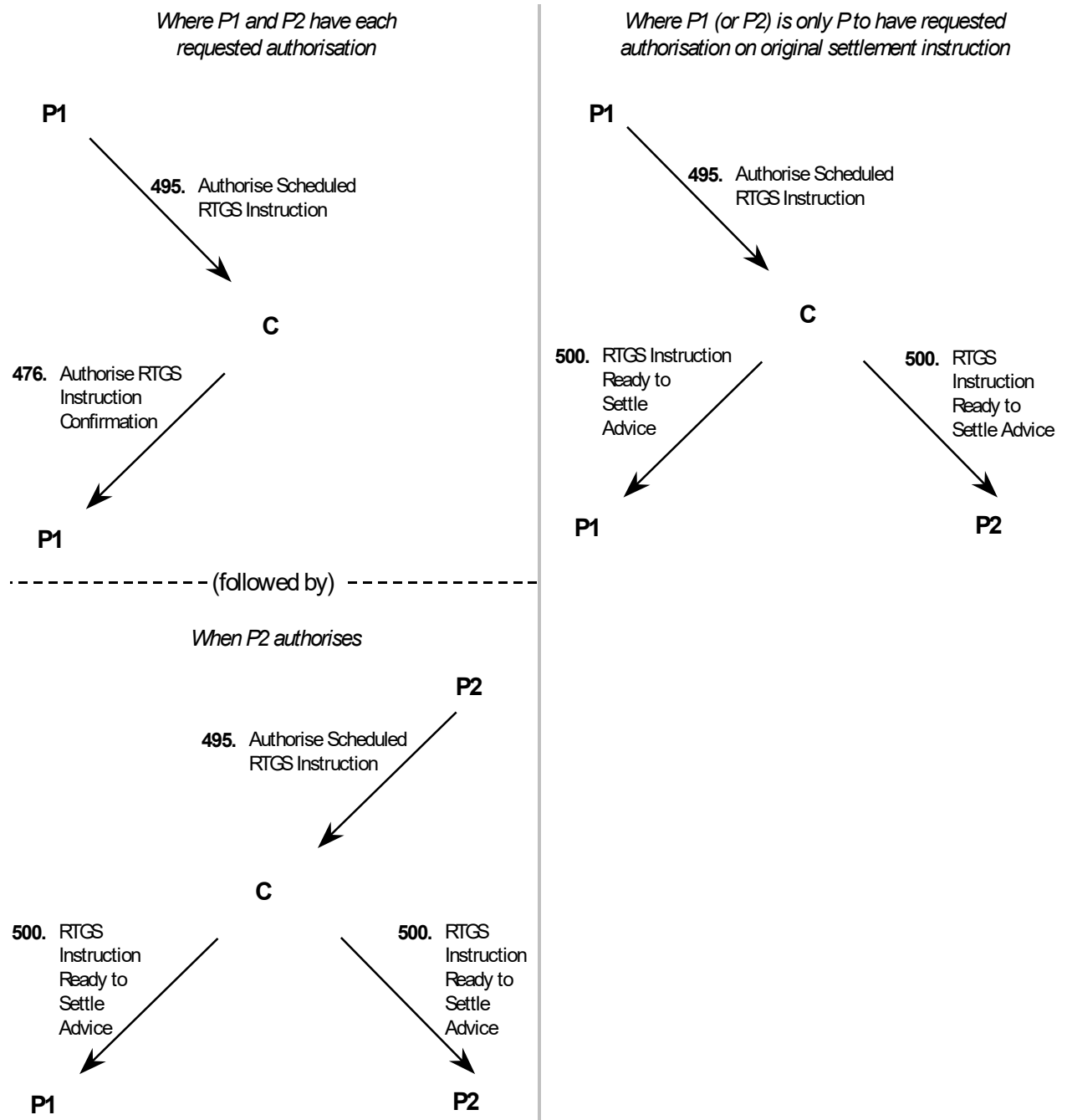


* Movement Type in the 754 message will indicate that the seller's securities have been released from reservation.

Note: Where a recall has been rejected because a transaction has settled, CHES will have also sent the Participant an advice that settlement has been successfully completed.

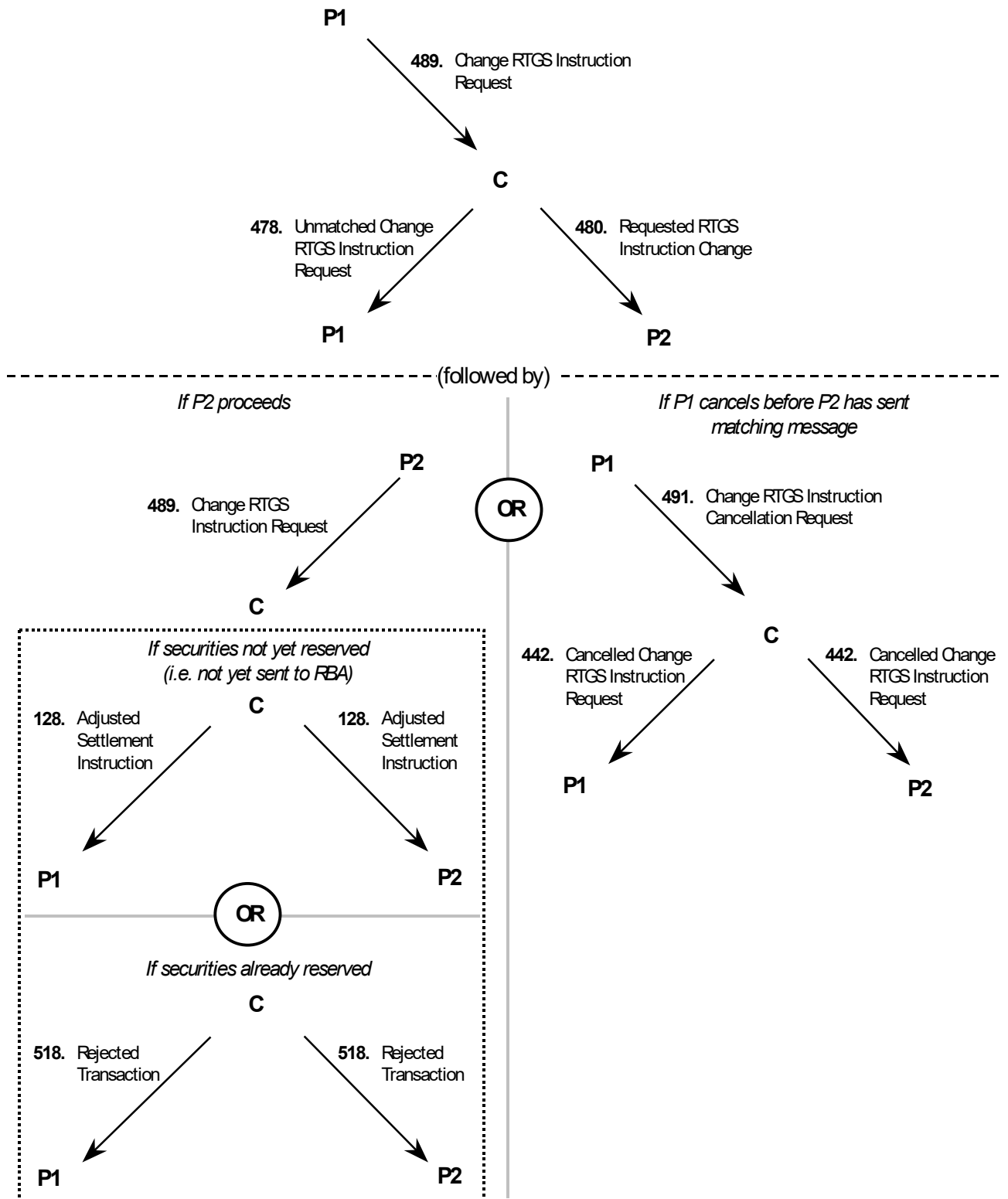
5.2.70. Authorisation of RTGS Settlement Instruction

(Refer also to section 6.30 for Transaction Id usage.)



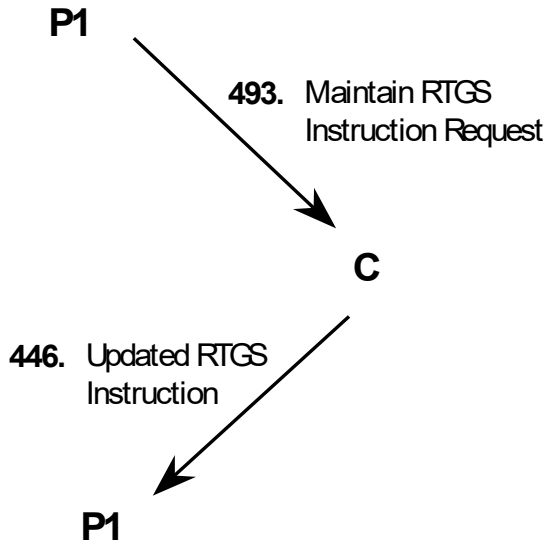
5.2.71. Dual Entry Change of RTGS Settlement Instruction

(Refer also to section 6.31 for Transaction Id usage.)



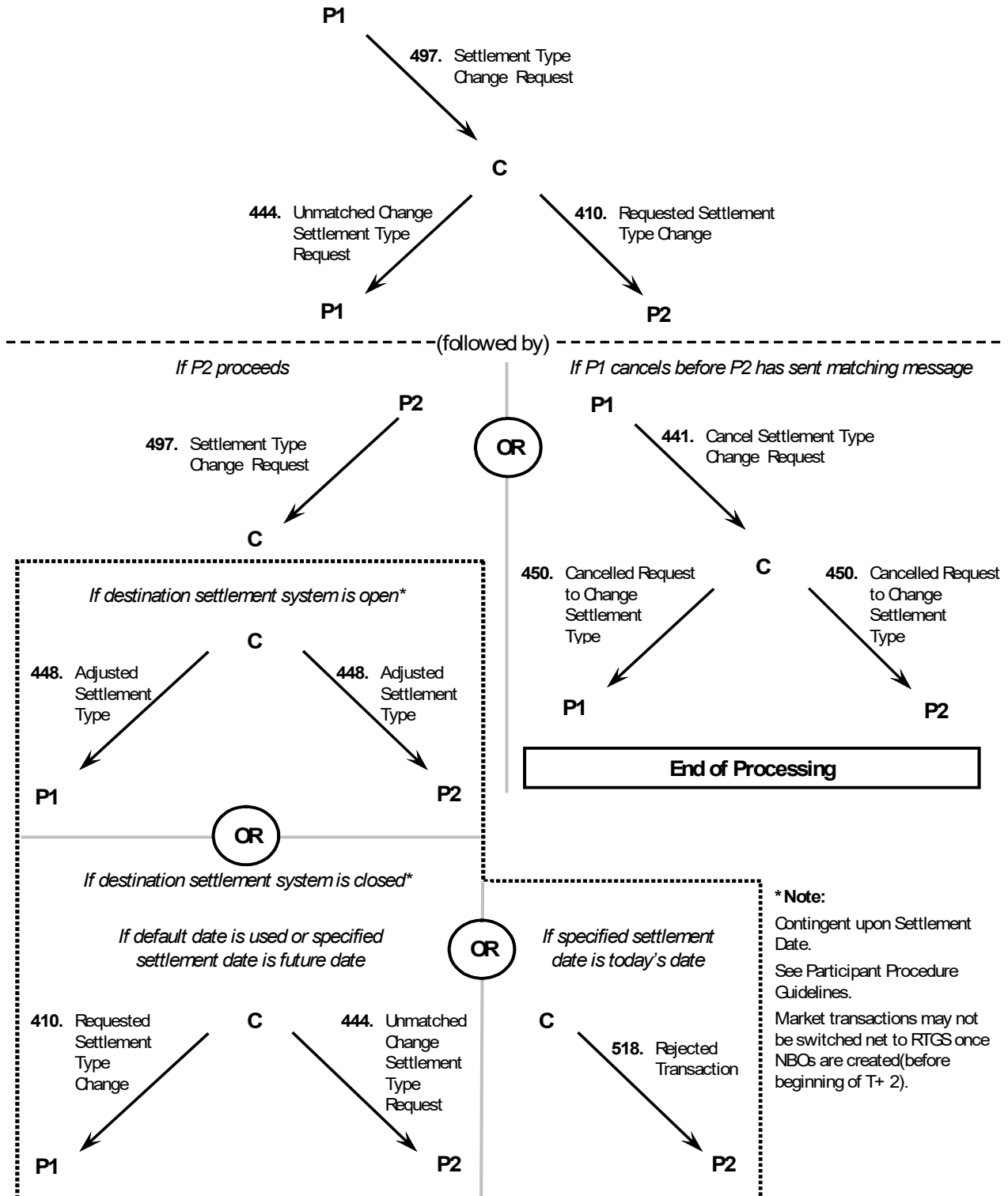
5.2.72. Single Sided Change of RTGS Settlement Instruction

(Refer also to section 6.32 for Transaction Id usage.)



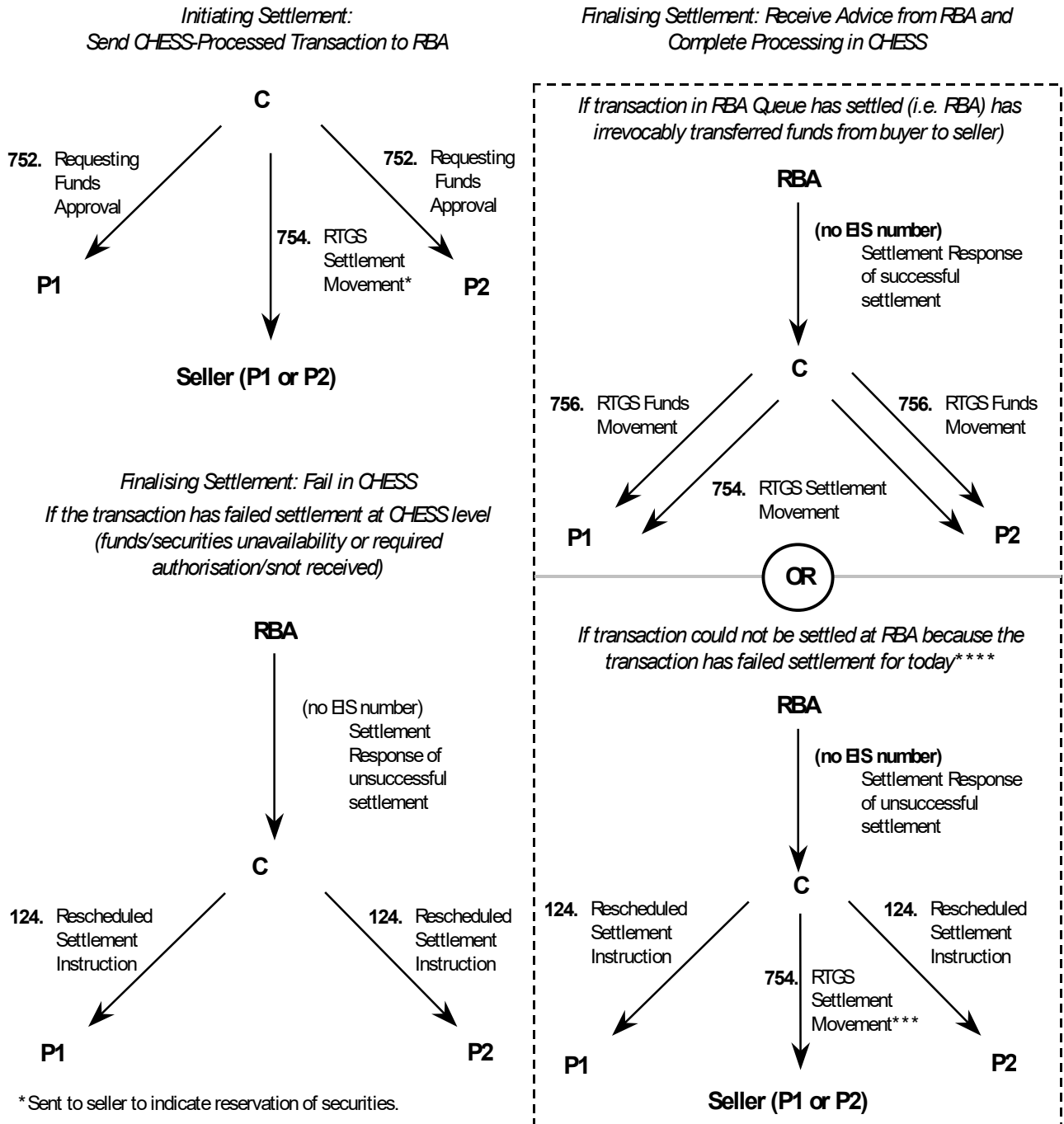
5.2.73. Change of Settlement Type (Dual Entry)

(Refer also to section 6.33 for Transaction Id usage.)



5.2.74. Settle RTGS Transaction

(Refer also to section 6.34 for Transaction Id usage.)



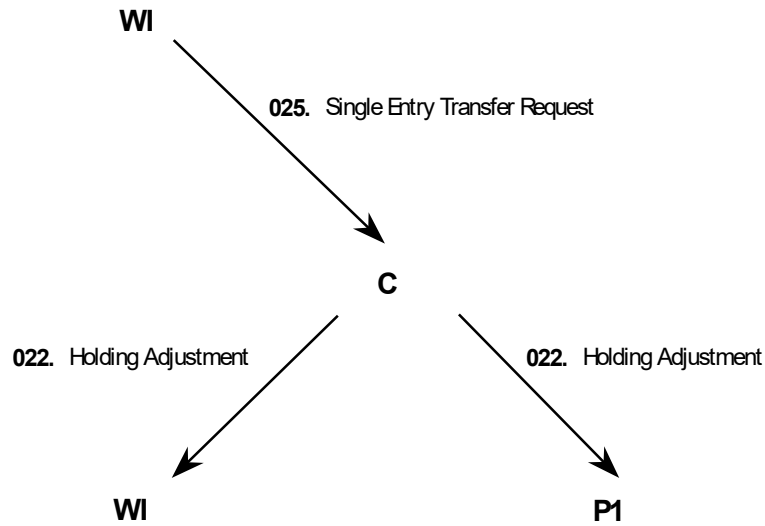
* Sent to seller to indicate reservation of securities.

** Sent to buyer and seller to indicate transfer of securities.

*** Sent to seller to indicate un-reservation of securities.

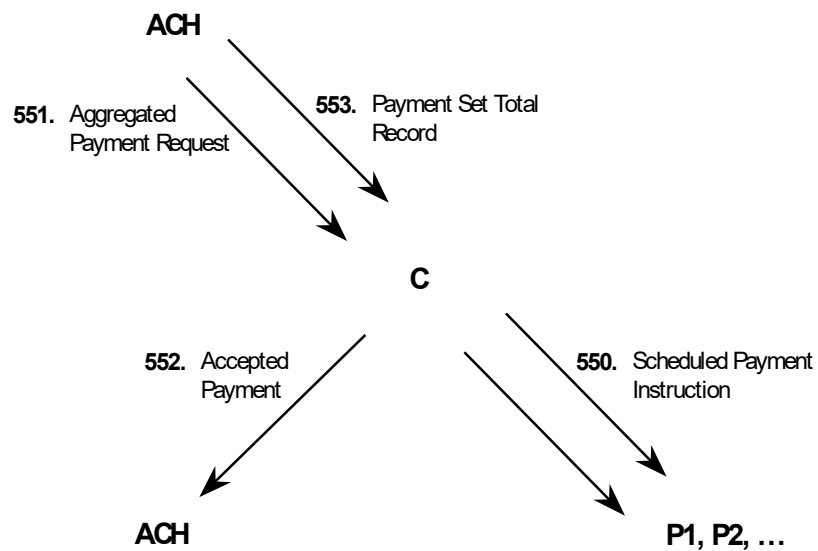
**** If the transaction was not settled at RBA because of a system problem, CHES may send a 754 message to the seller re un-reservation of securities, and 'reinject' transaction into processing once problem is corrected.

5.2.75. Warrant Processing

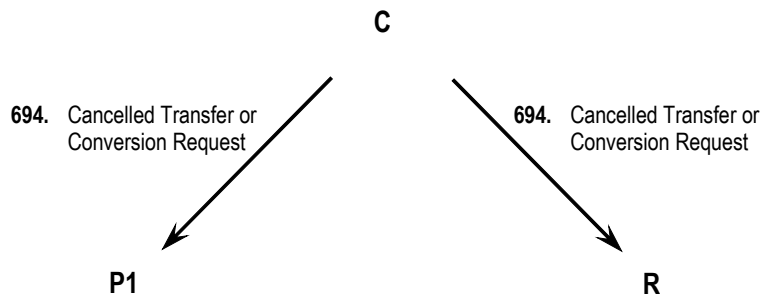


Note: The Warrant Issuer Registry & the Underlying Security Registry are notified of security movements via CHES Overnight Reporting Message Holding Net Movement (510)

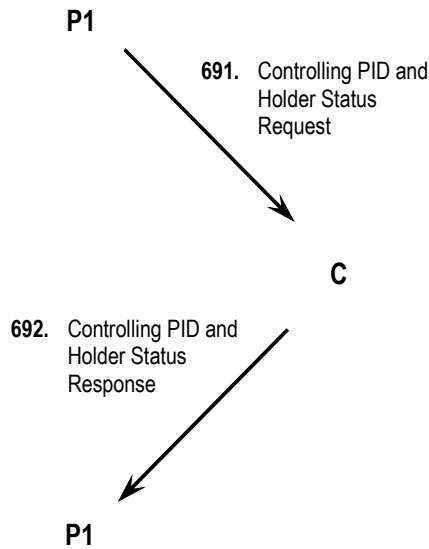
5.2.76. Real Time Payment of Derivatives Settlements



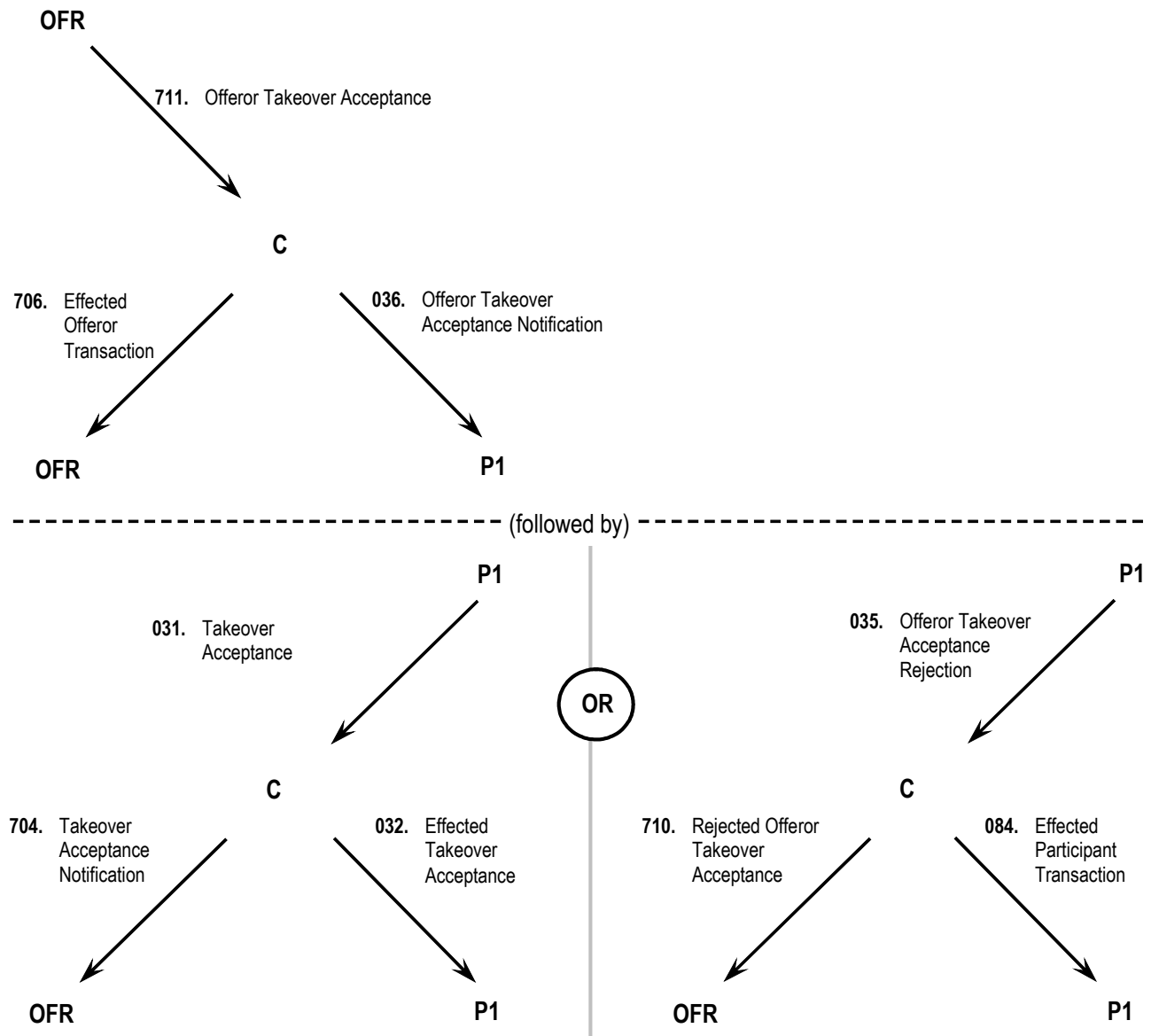
5.2.77. Unactioned Transfer or Conversion



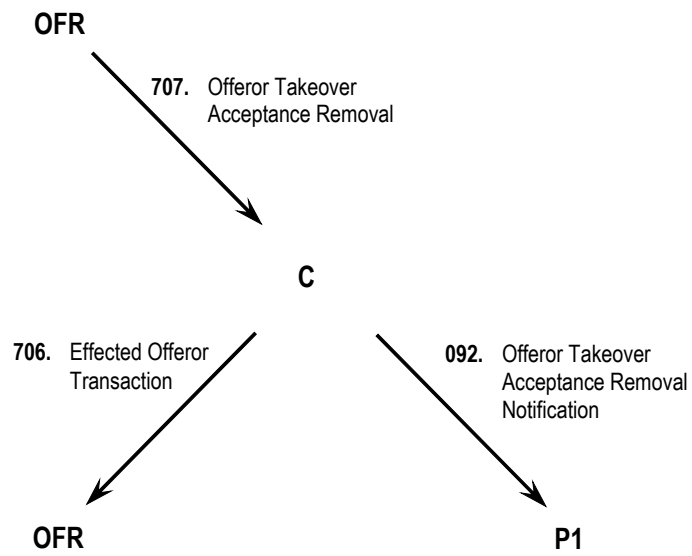
5.2.78 Controlling PID Disclosure



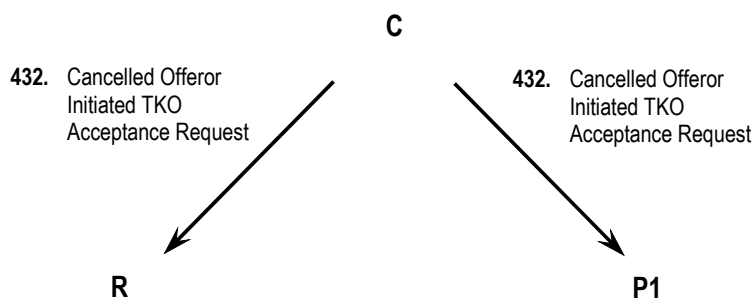
5.2.79 Offeror Takeover Acceptance



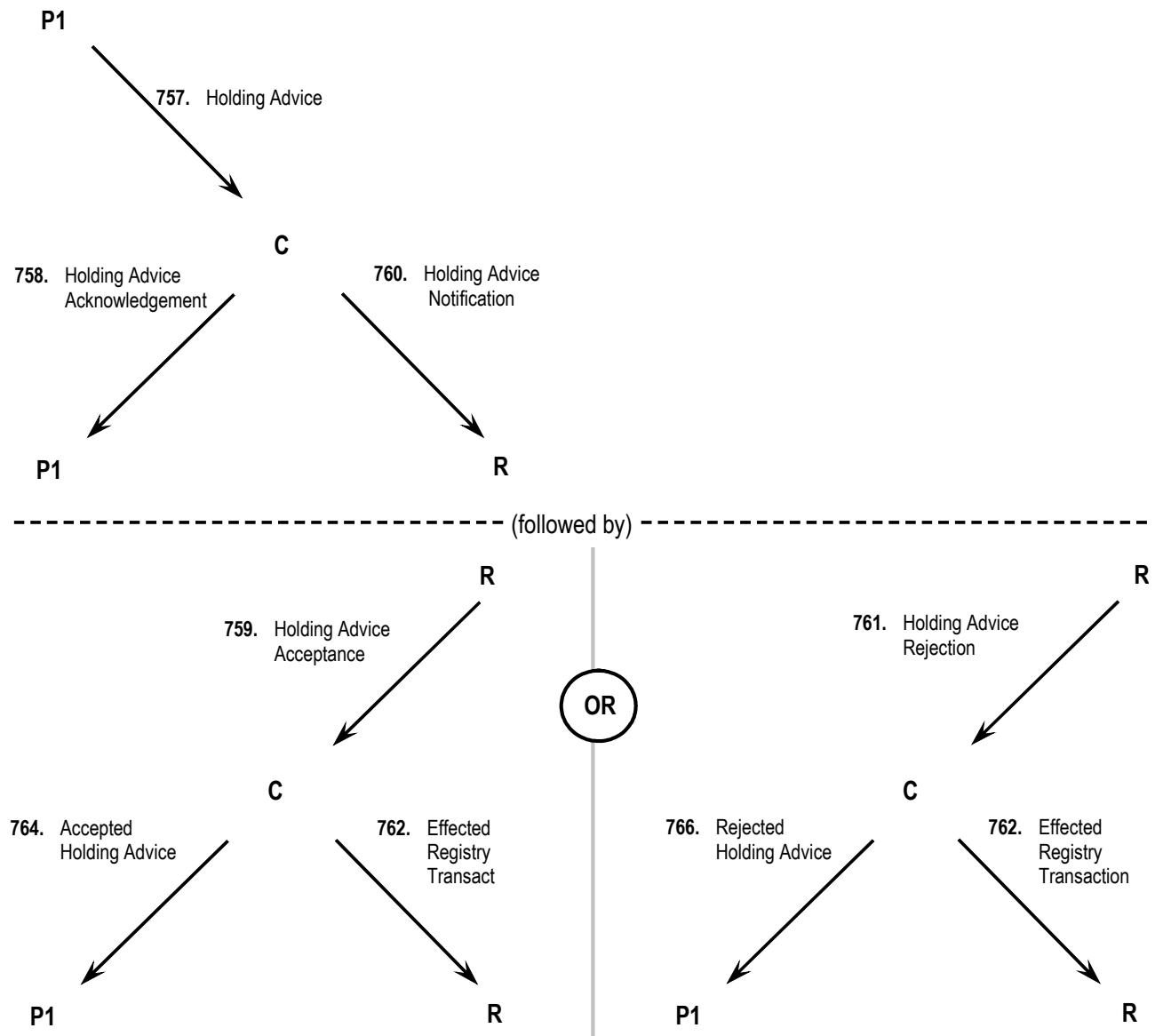
5.2.80 Takeover Acceptance Removal by Offeror



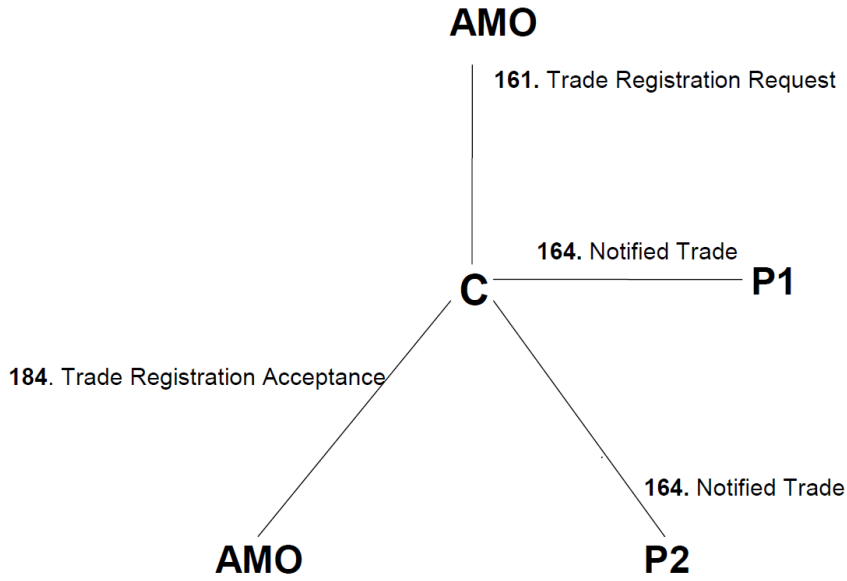
5.2.81 Cancelled Offeror Initiated TKO Acceptance Request



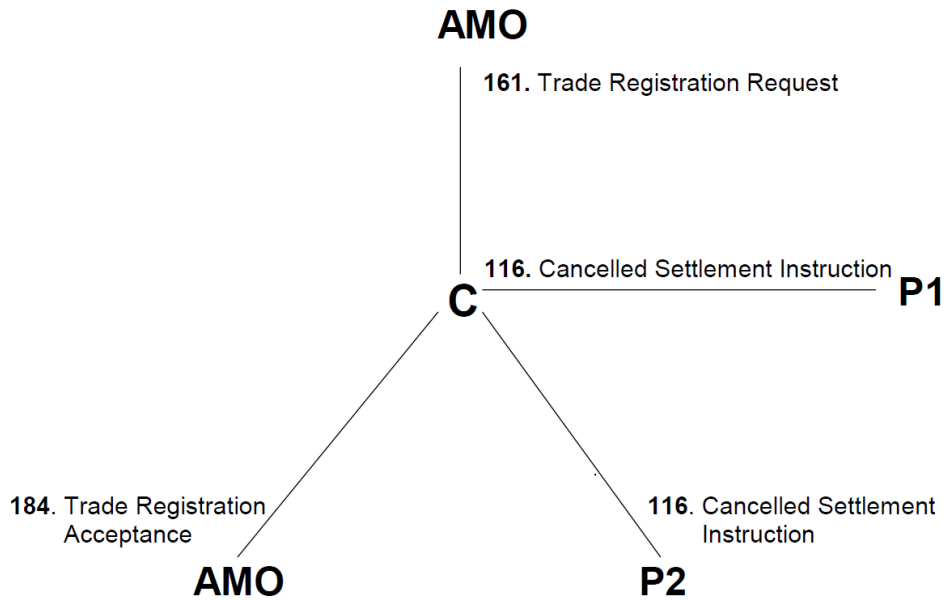
5.2.82 Holding Advice



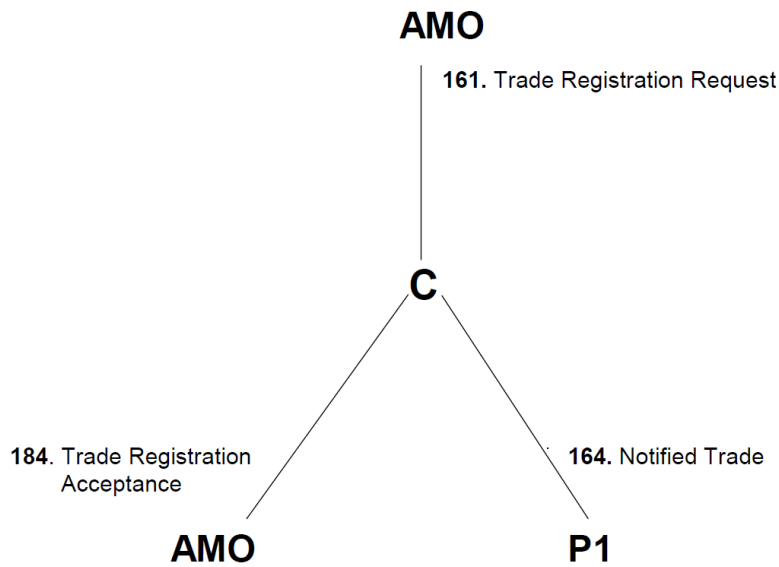
5.2.83 Trade Registration Request – Acceptance (Non-Crossing)



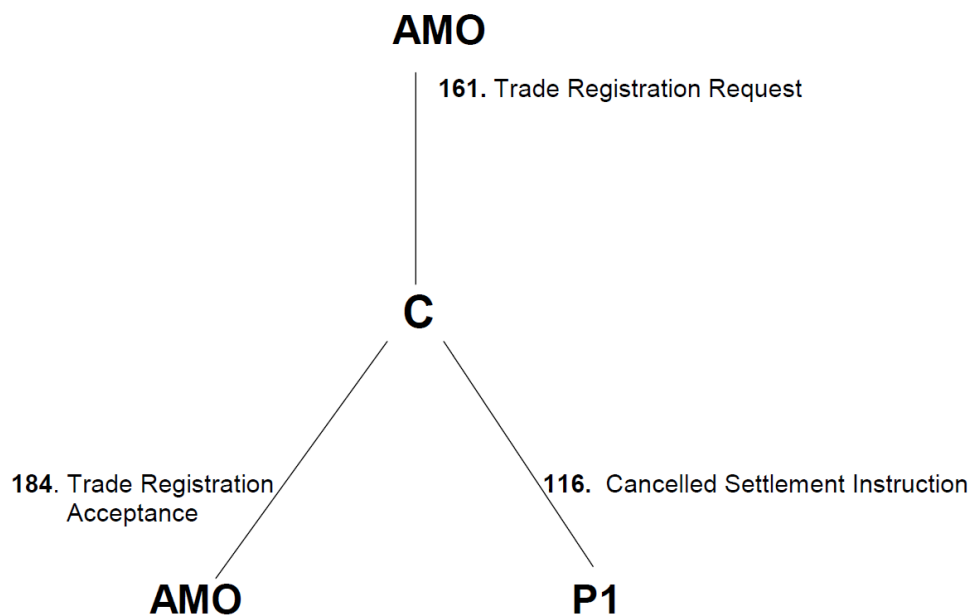
5.2.84 Trade Registration Request – Cancellation (Non-Crossing)



5.2.85 Trade Registration Request – Acceptance (Crossing1)



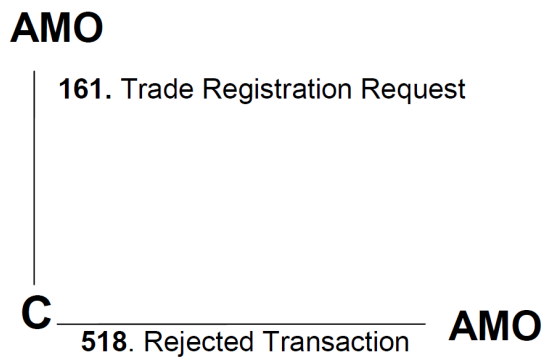
5.2.86 Trade Registration Request – Cancellation (Crossing2)



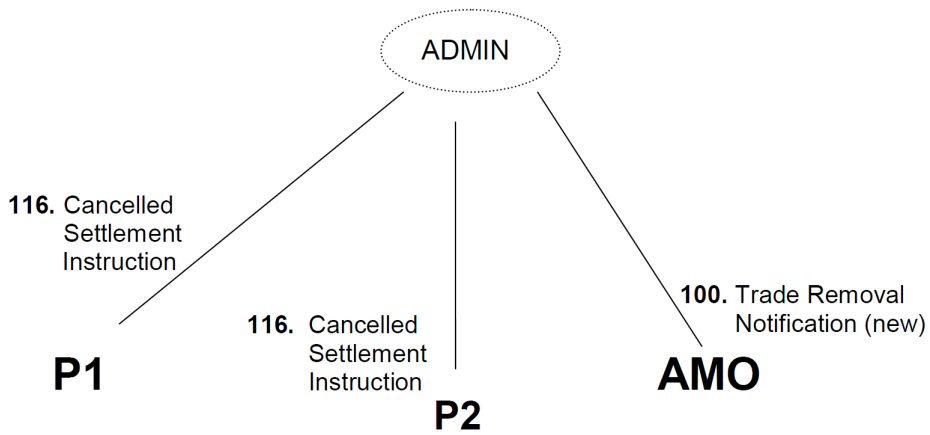
¹ Relates to same CP/SP as P1

² Relates to same CP/SP as P1

5.2.87 Trade Registration Request – Rejection

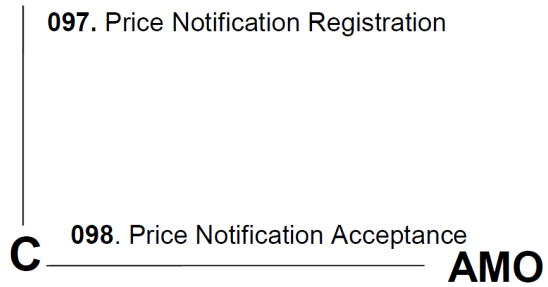


5.2.88 Trade Removal Notification



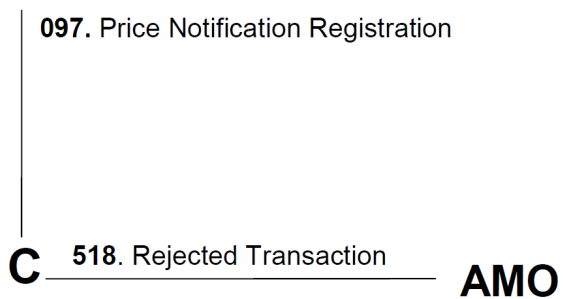
5.2.89 Price Notification Registration – Acceptance

AMO

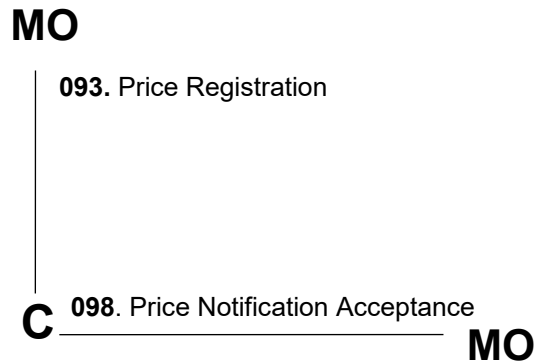


5.2.90 Price Notification Registration – Rejection

AMO

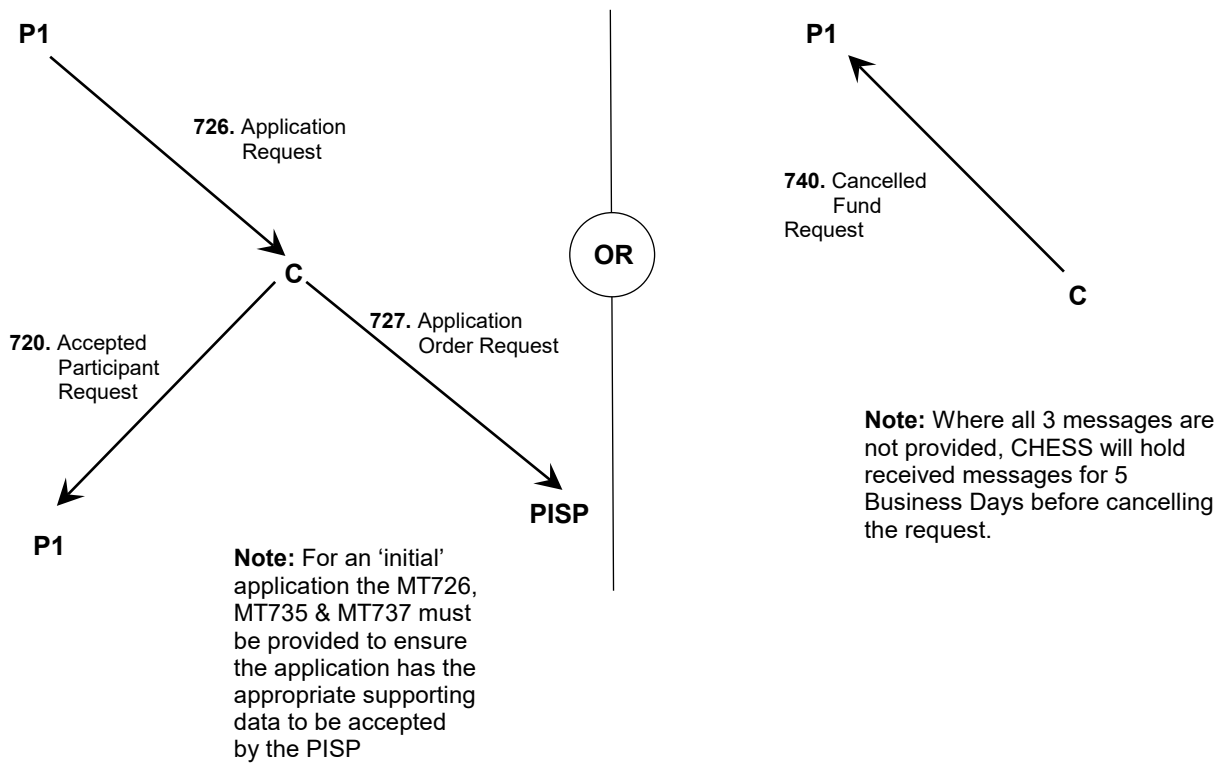


5.2.91. Price Registration

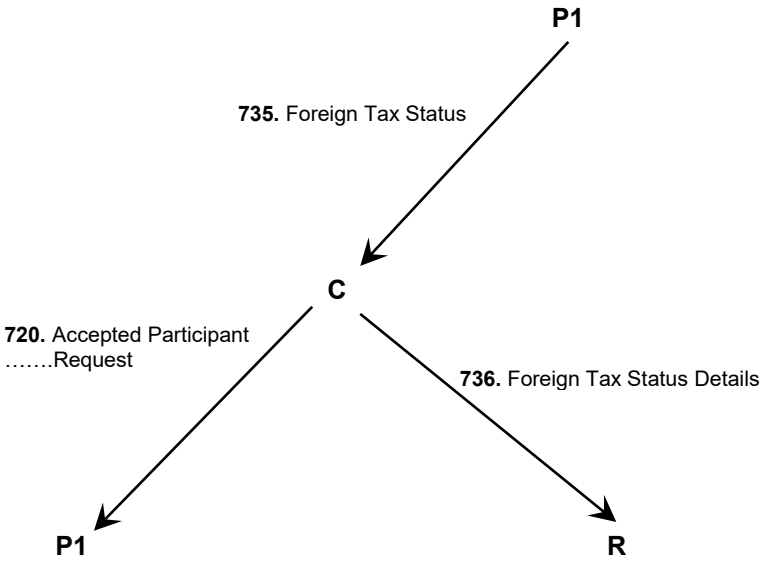


5.2.92. Application for Fund Units

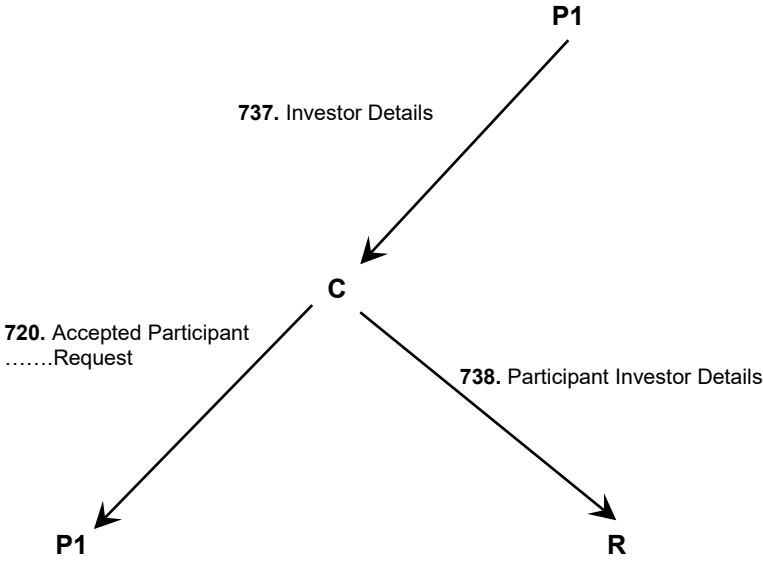
(Refer also to section 6.44 for Transaction Id usage)



----- (followed by) -----

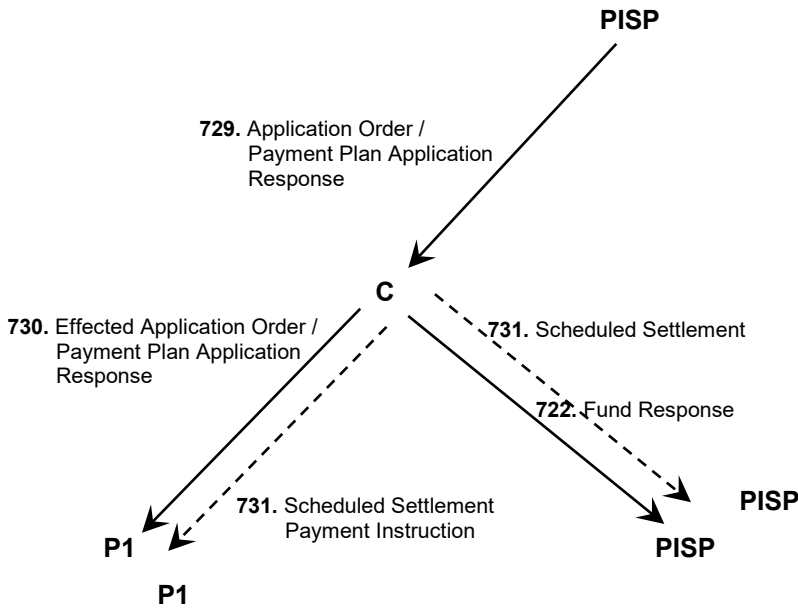


----- (followed by) -----



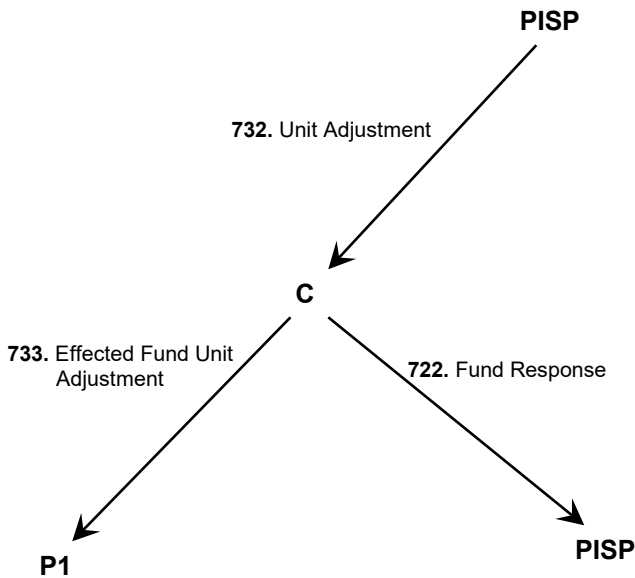
----- (followed by) -----

(Diagram is continued on next page)



Note: 729 message allows the PISP to either accept or reject the P1 request. If rejected, the workflow is completed. Where the PISP has accepted the initial application a 731 is generated.

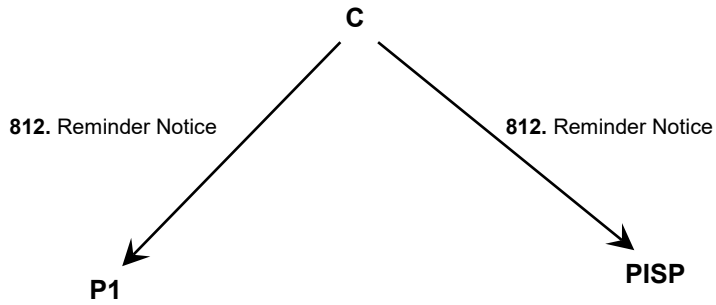
----- (optionally followed by) -----



Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

5.2.93. Fund Units Allotment Reminder

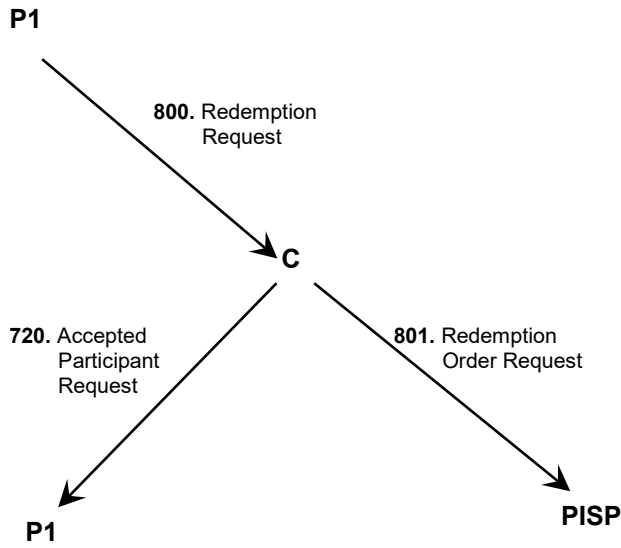
(Refer also to section 6.45 for Transaction Id usage)



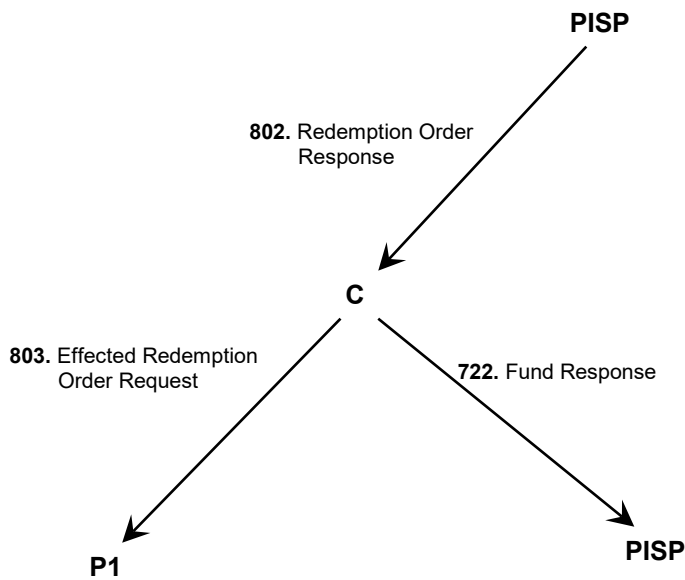
Note: 812 messages only apply to Applications for Fund Units and to Switches of Fund Units where units have not been allotted by the Allotment Date.

5.2.94 Redemption of Fund Units

(Refer also to section 6.46 for Transaction Id usage)



----- (followed by) -----

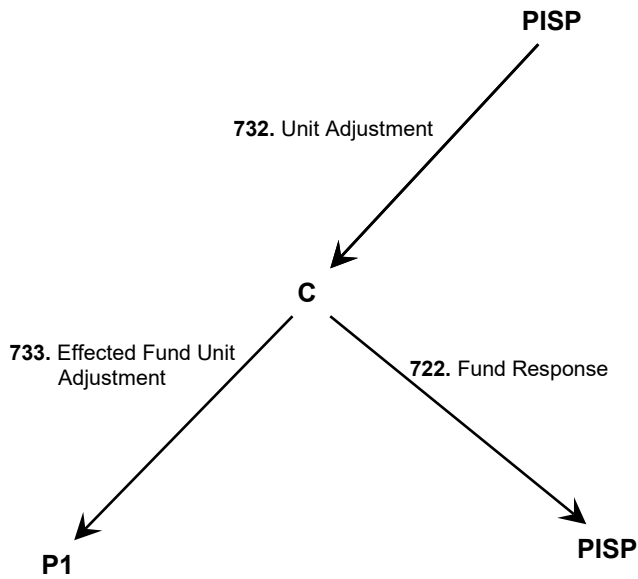


Note: 802 message allows the PISP to either accept or reject the P1 request. If rejected, the workflow is completed

(Diagram is continued on next page)

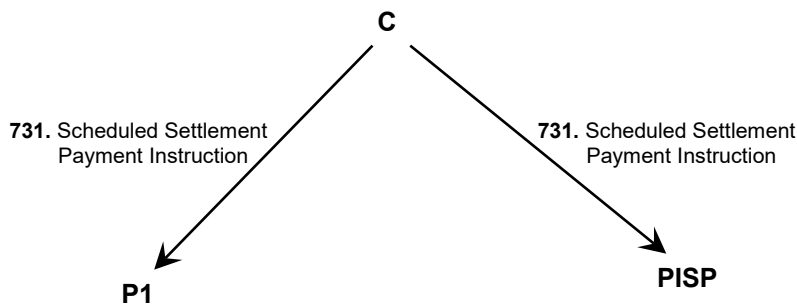
(Diagram is continued from previous page)

----- (optionally followed by) -----



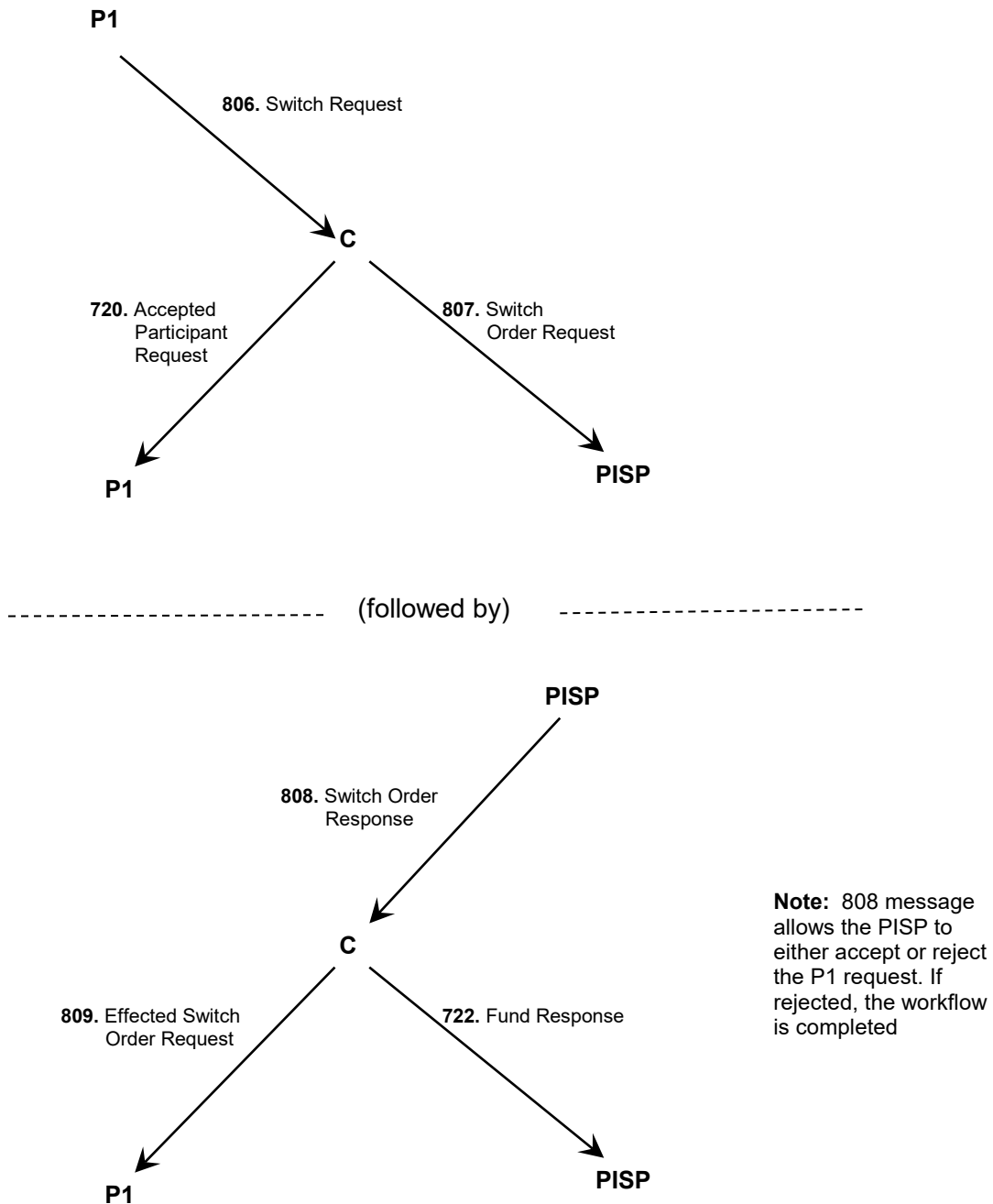
Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

----- (followed by) -----



5.2.95 Switch of Fund Units

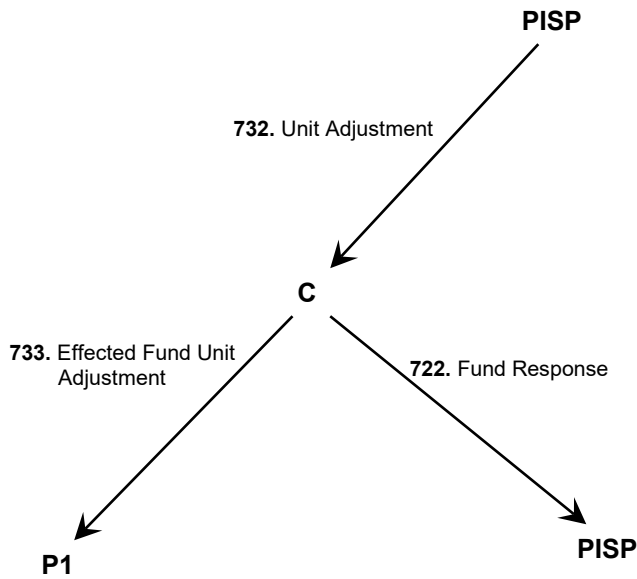
(Refer also to section 6.47 for Transaction Id usage)



(Diagram is continued on next page)

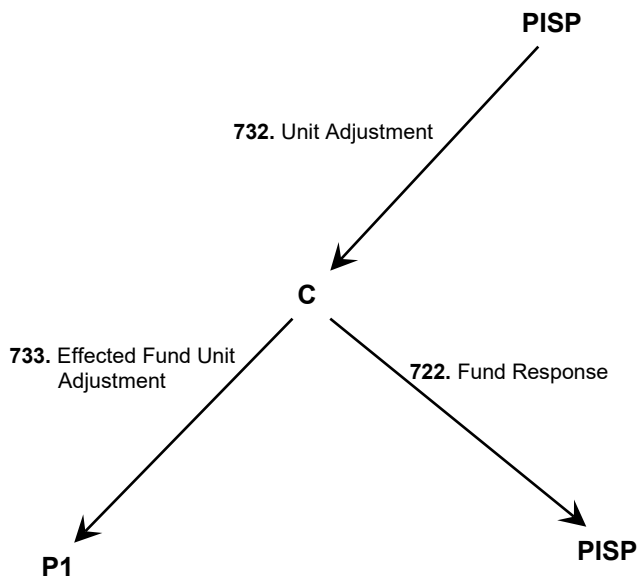
(Diagram is continued from previous page)

----- (optionally followed by) -----



Redemption Leg
Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

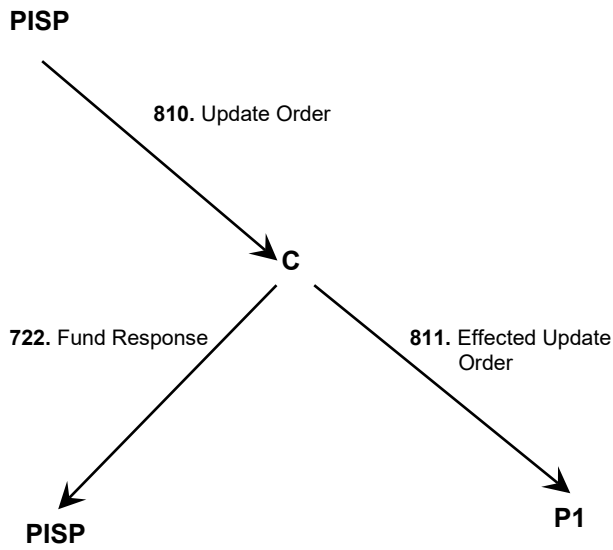
----- (optionally followed by) -----



Application Leg
Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

5.2.96. Fund Order Cancellation

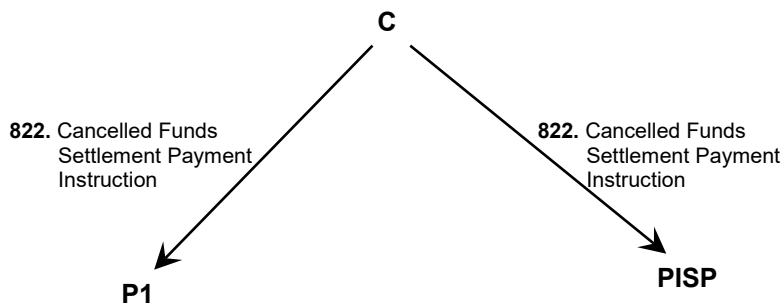
(Refer also to section 6.48 for Transaction Id usage)



Note: Available to cancel Application, Redemption and Switch orders.

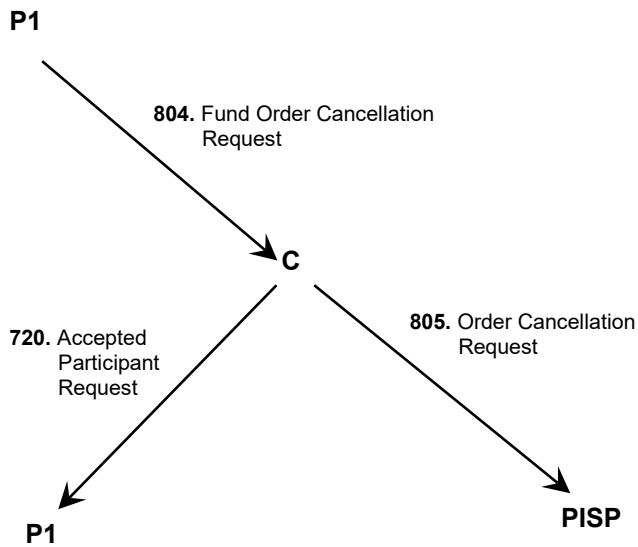
Note: May be instructed both prior to and post settlement. If post settlement funds must be affected outside of CHESS.

----- (followed by - where instruction -----
is prior to settlement)



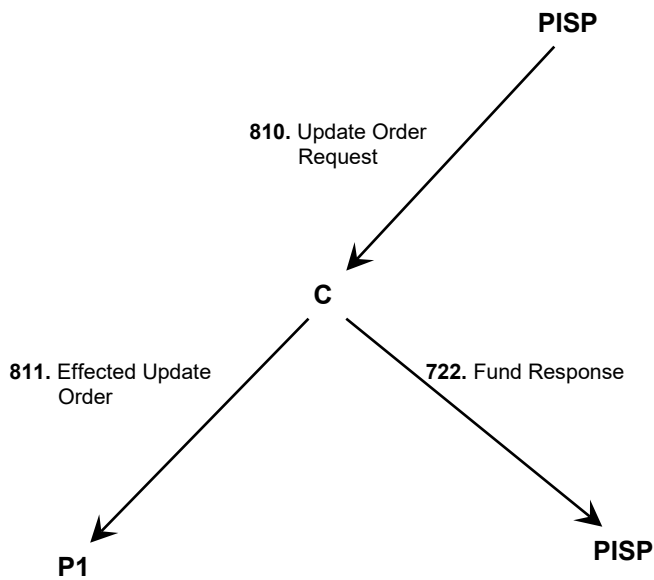
5.2.97. Fund Order Cancellation (On-Hold state)

(Refer also to section 6.17 for Transaction Id usage)



Note: Available to cancel Redemption and Switch orders.

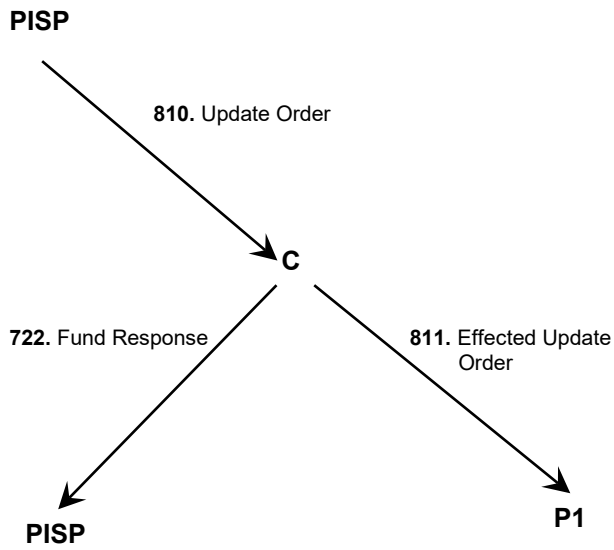
----- (followed by) -----



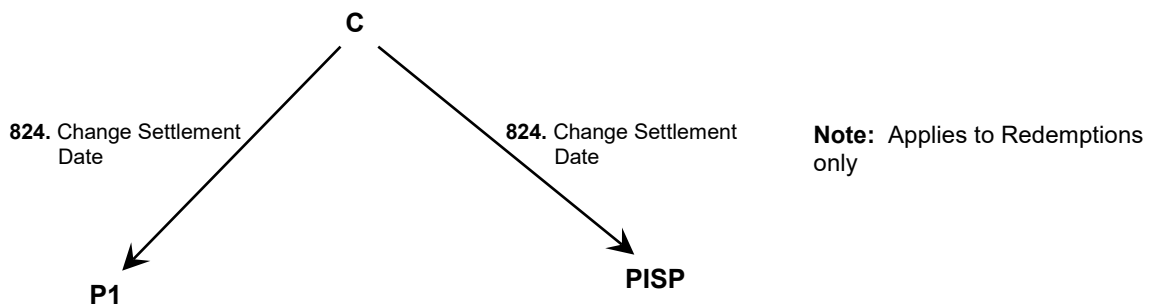
Note: 810 message allows the PISP to either accept or reject the P1 request.

5.2.98. Fund Order Unit Allotment / Payment Date Update

(Refer also to section 6.2 for Transaction Id usage)

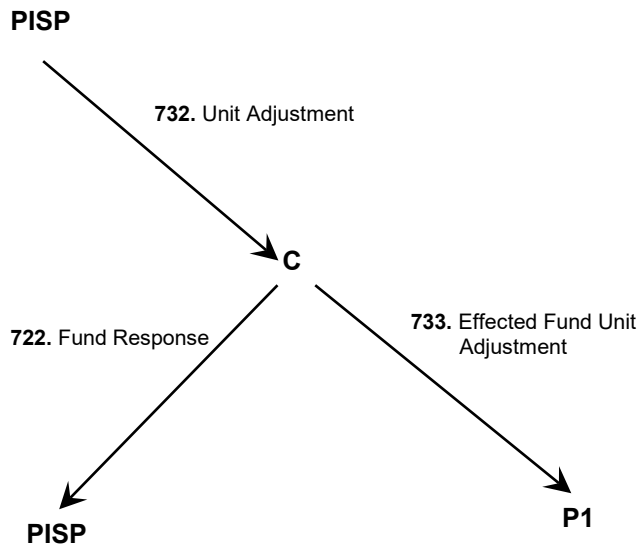


----- (followed by - where Payment date has been modified) -----



5.2.99. Fund Order Unit Adjustment

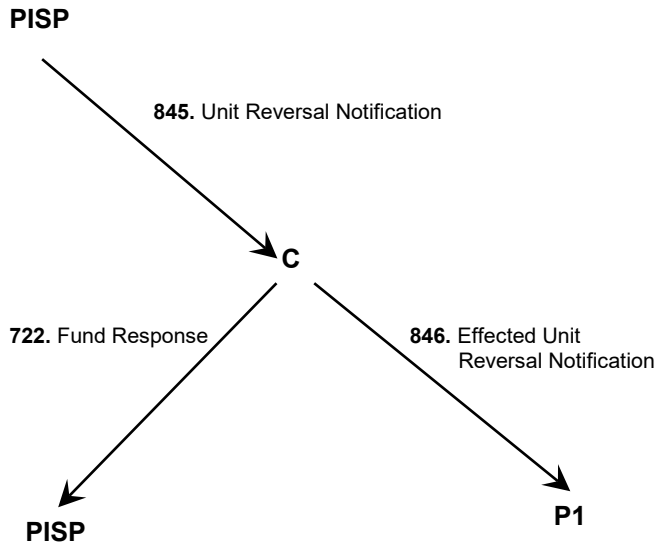
(Refer also to section 6.2 for Transaction Id usage)



Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES.

5.2.100. Fund Order Reversal

(Refer also to section 6.49 for Transaction Id usage)

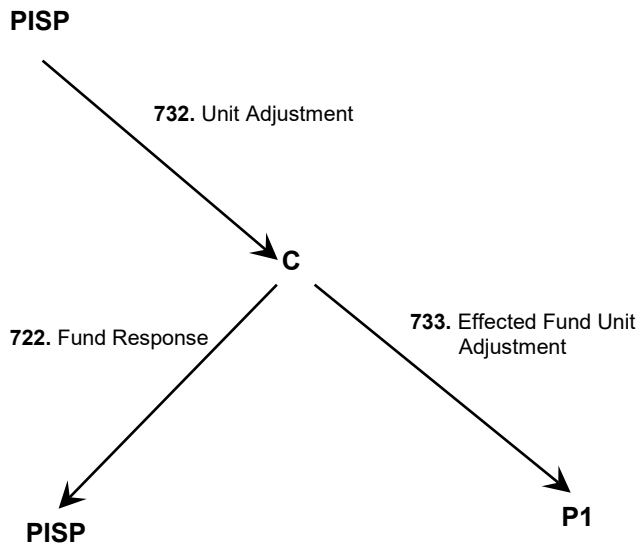


Note: To rectify orders initiated by the PISP post order completion, by initiating unit adjustments.

Note: All Fund Order Reversals must be run as two sets of 845/732 transactions; one to reverse the original order and one to reapply the correct unit values.

Note: Applies to Applications, Redemptions and Switches. For Switches this message suite may apply to each leg of a Switch

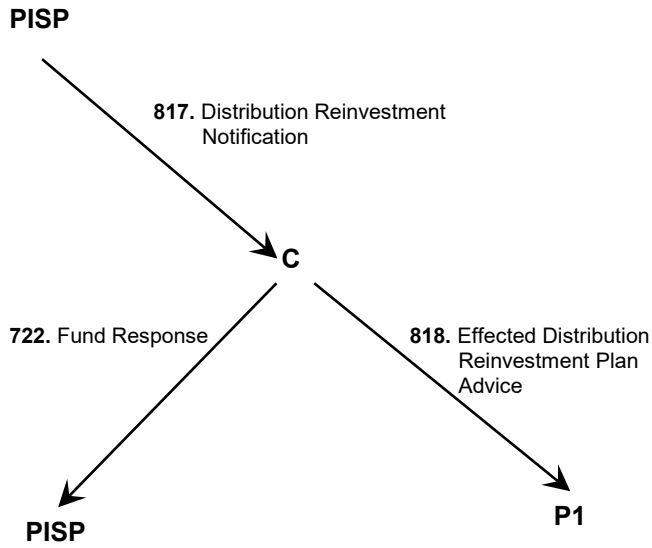
----- (optionally followed by) -----



Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

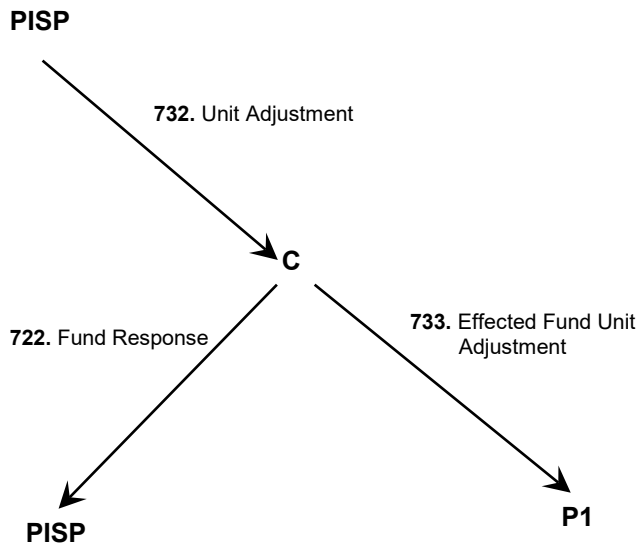
5.2.101. Fund Distribution Reinvestment Advice

(Refer also to section 6.17 for Transaction Id usage)



Note: Preceded by a DRP arrangement being concluded between the holder (HIN) and the Product Issuer Settlement Participant (PISP)

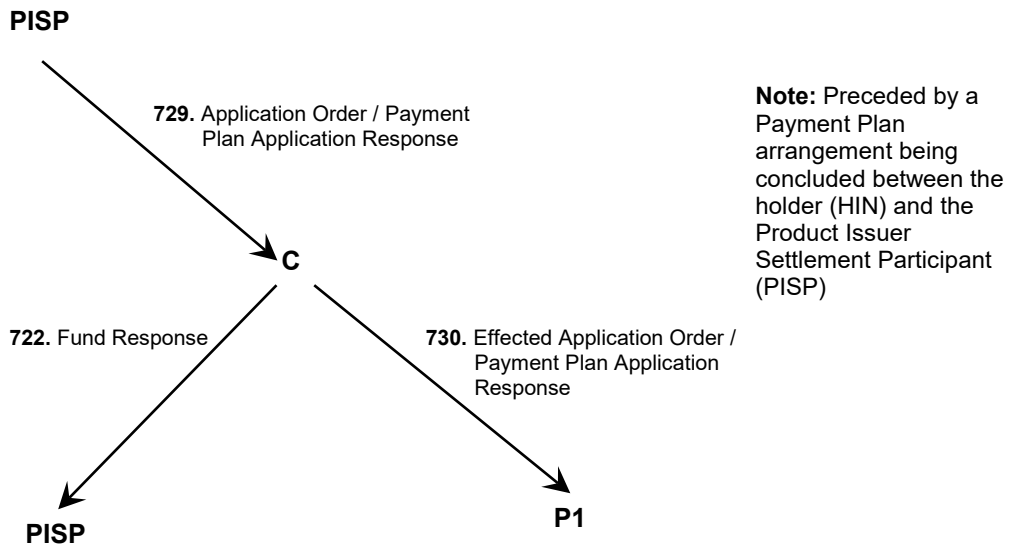
----- (optionally followed by) -----



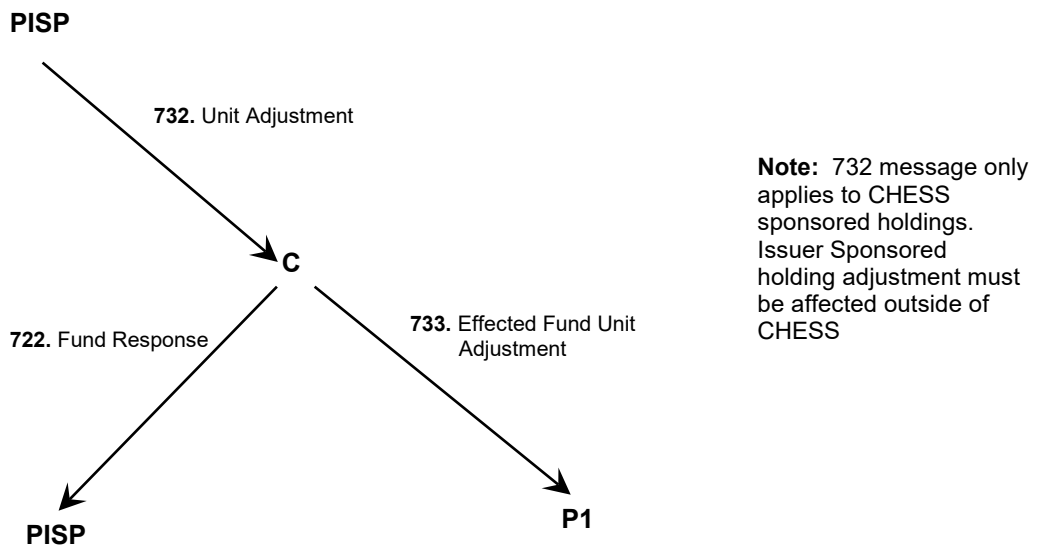
Note: 732 message only applies to CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

5.2.102. Fund Payment Plan Advice

(Refer also to section 6.2 for Transaction Id usage)

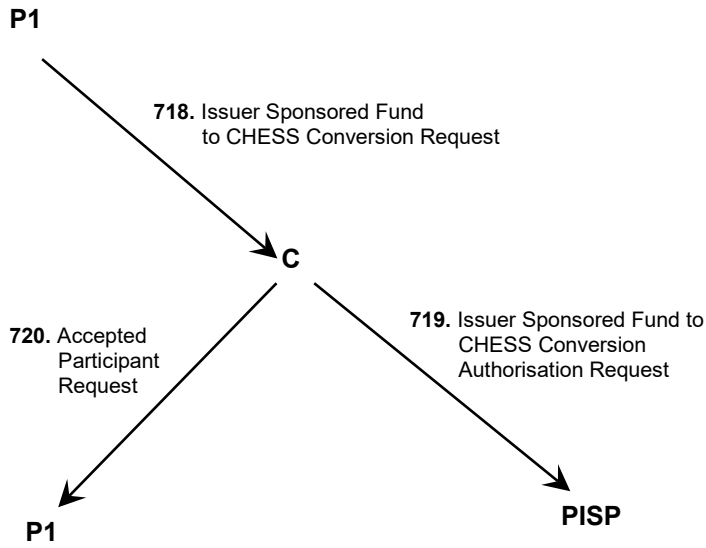


----- (optionally followed by) -----

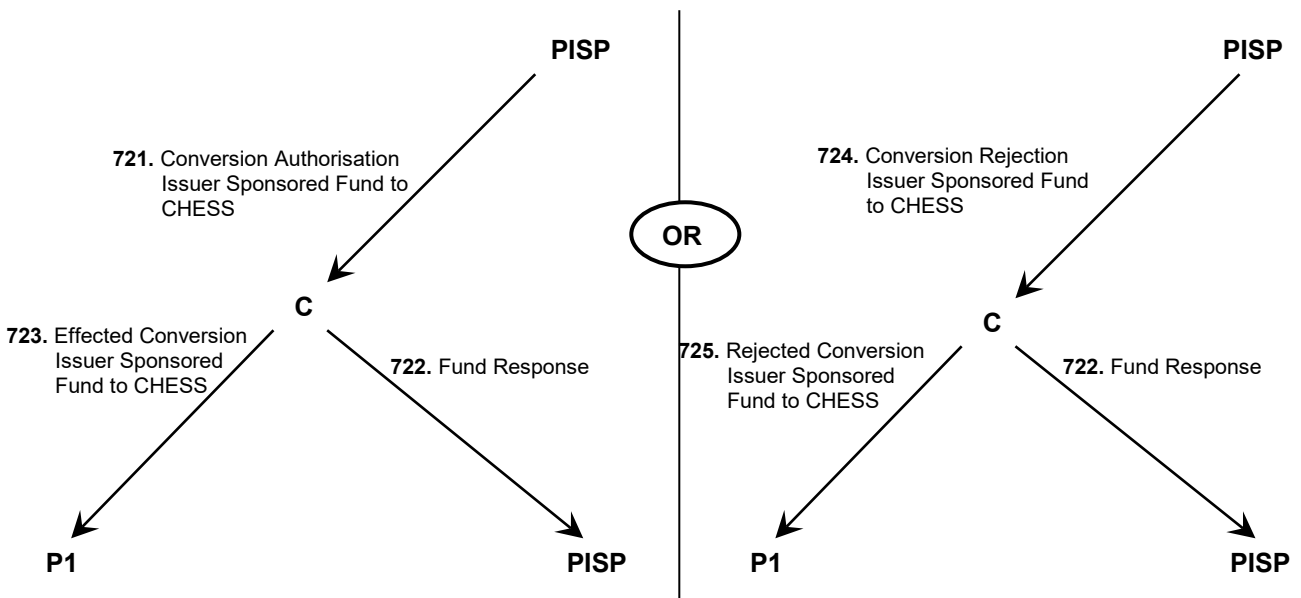


5.2.103. Issuer Sponsored to CHES Conversion of Fund Units

(Refer also to section 6.3 for Transaction Id usage)

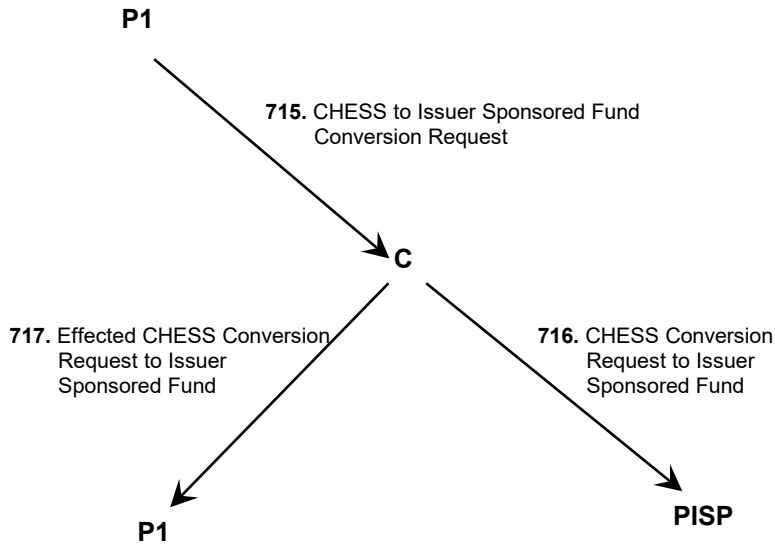


(followed by)



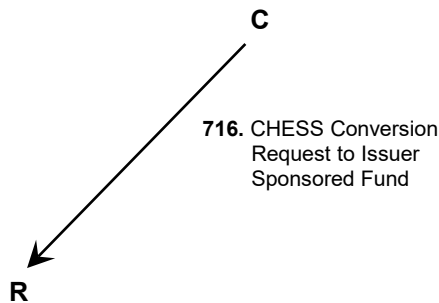
5.2.104. CHES to Issuer Sponsored Conversion of Fund Units

(Refer also to section 6.2 for Transaction Id usage)



5.2.105. CHES to Issuer Sponsored Conversion of Fund Units (CHES Initiated)

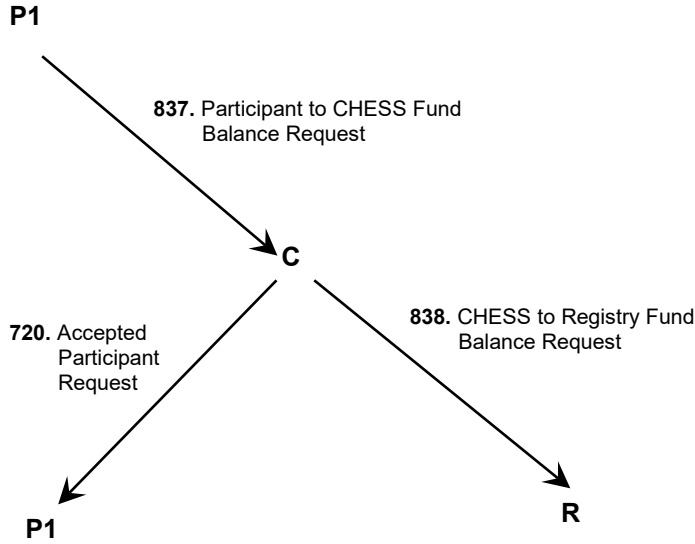
(Refer also to section 6.2 for Transaction Id usage)



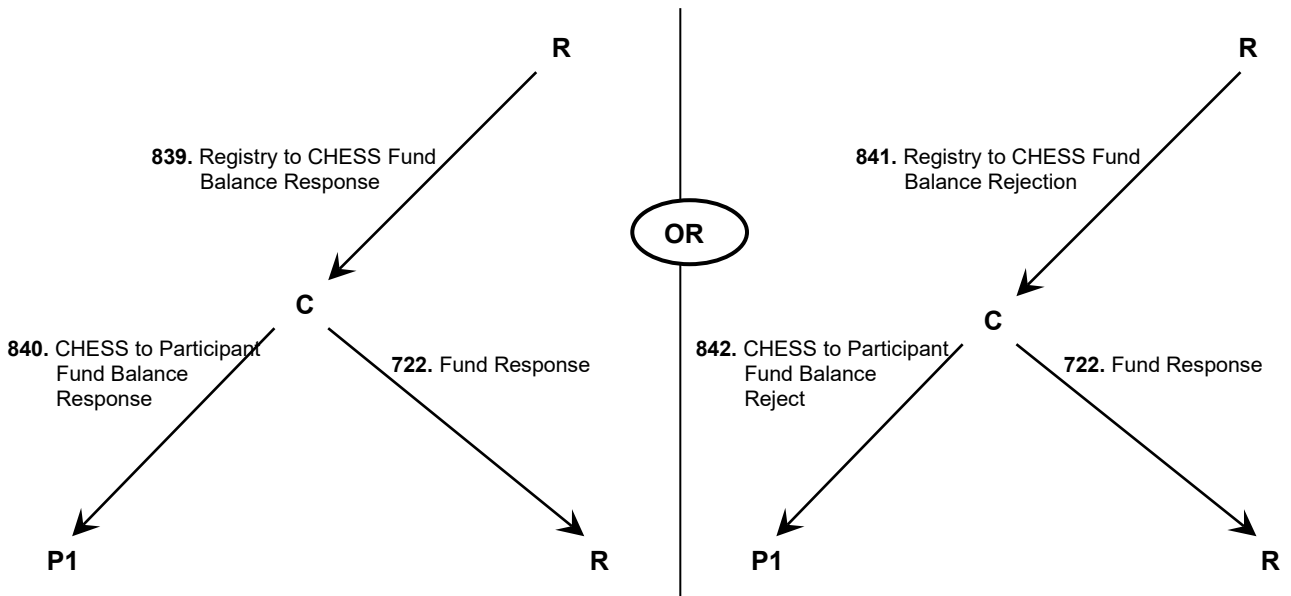
Note: Under certain circumstances there may be a requirement for C&S Operations to initiate CHES to Issuer Sponsored conversions. In this instance the 716 is directed to the issuer registry

5.2.106. Issuer Sponsored Fund Holding Balance Enquiry

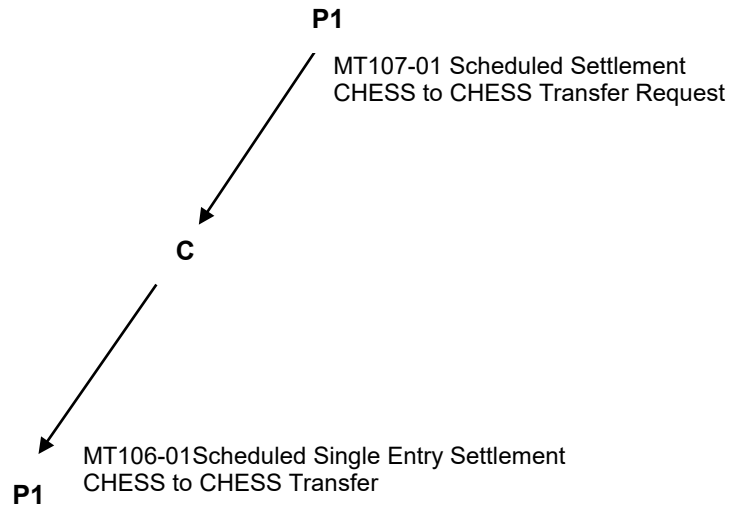
(Refer also to section 6.3 for Transaction Id usage)



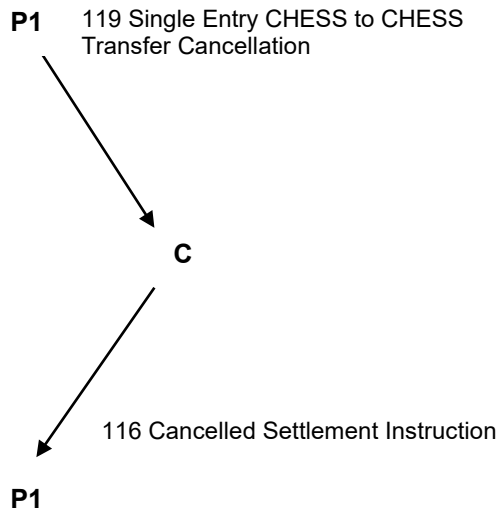
(followed by)



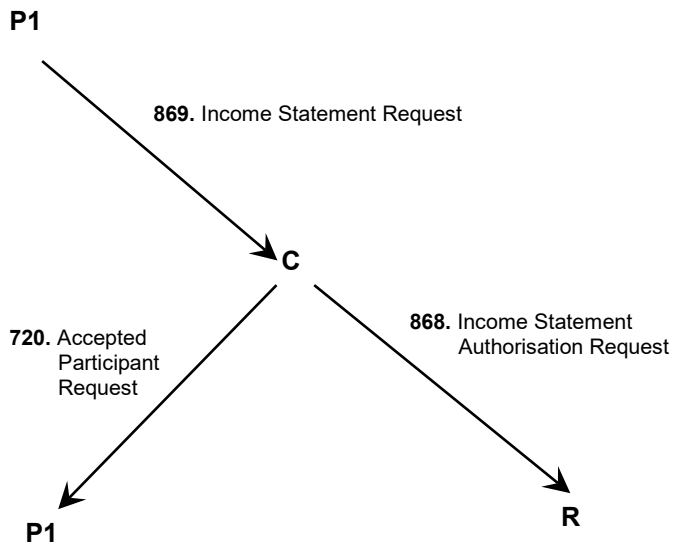
5.2.107. Scheduled Settlement CHES to CHES Transfer Request



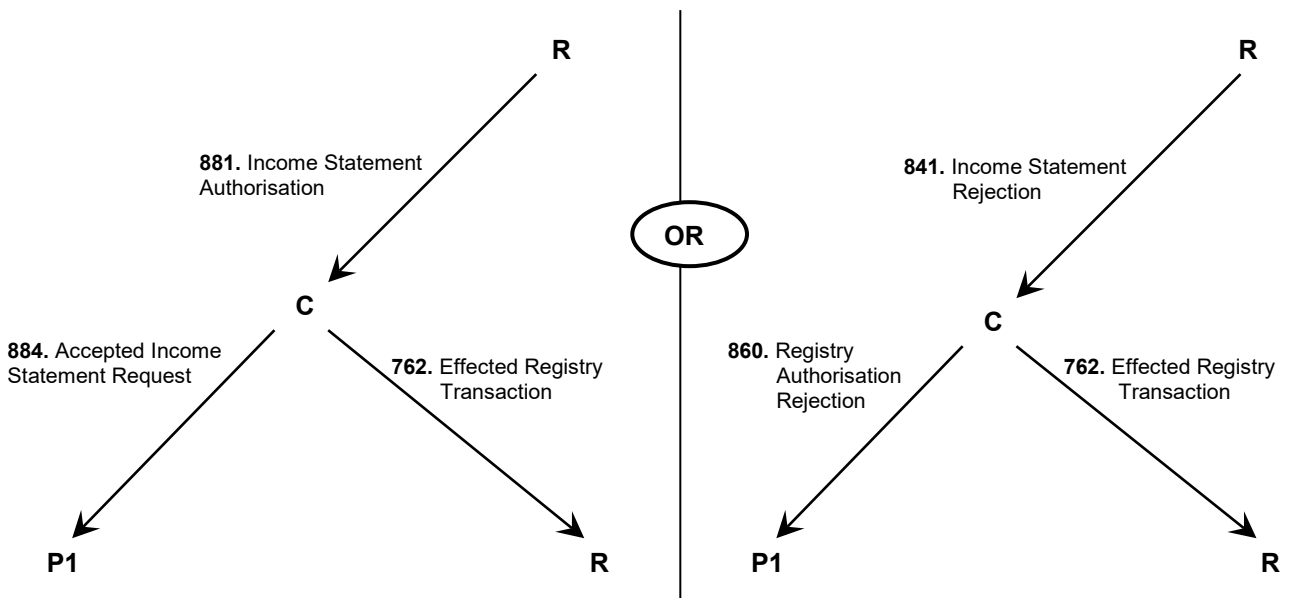
----- (Optionally, for cancellation of a scheduled instruction) -----



5.2.108. Income Statement Selection

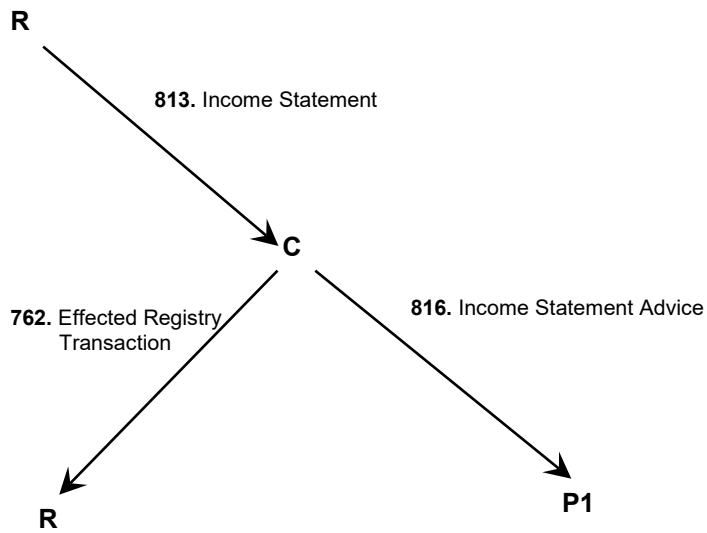


(followed by)



5.2.109. Periodic Income Statement

Note: Preceded by a Participant request, on behalf of the client (HIN) for an Periodic Income Statement to be supplied by a Registry. Refer 5.2.108

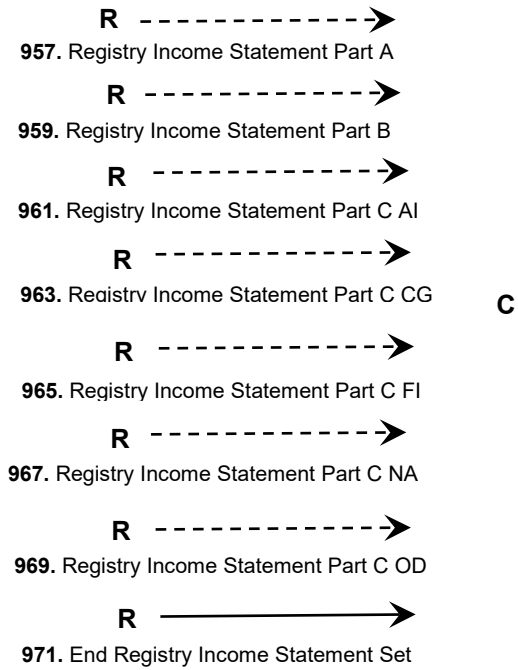


5.2.110. Annual Income Statement

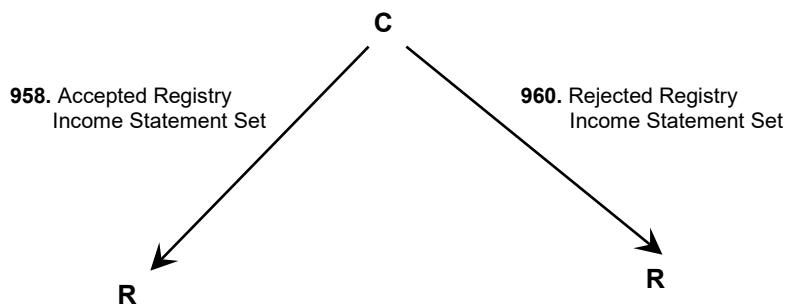
(Refer also to section 6.3 for Transaction Id usage)

Note: Preceded by a Participant request, on behalf of the client (HIN) for an Annual Income Statement to be supplied by a Registry. Refer 5.2.108

Note: The Origin Tx Id for all messages within the sets is the TX Id of the requesting **869. Income Statement Request**



----- (followed by) -----



(Where acceptance - continued on the following page)

Note: Where accepted:

-----> P
962. Registry Income Statement Part A

-----> P
964. Registry Income Statement Part B

-----> P
966. Registry Income Statement Part C AI

C -----> P
968. Registry Income Statement Part C CG

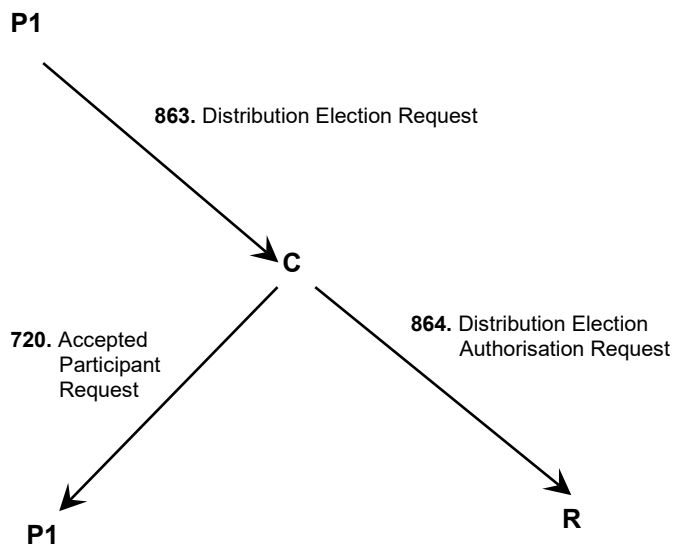
-----> P
970. Registry Income Statement Part C FI

-----> P
972. Registry Income Statement Part C NA

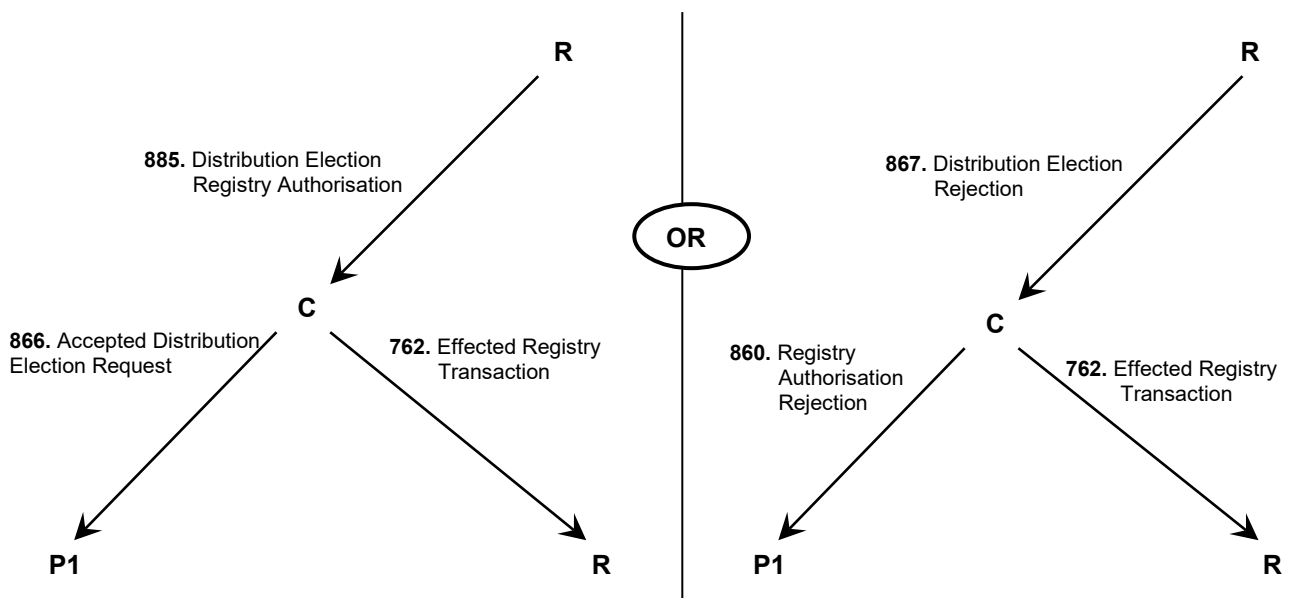
-----> P
974. Registry Income Statement Part C OD

—————> P
976. End Registry Income Statement Set

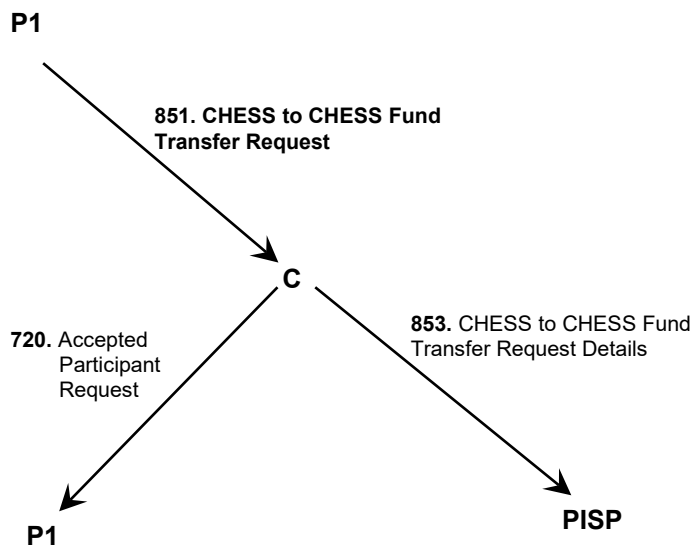
5.2.111. Distribution Election



(followed by)

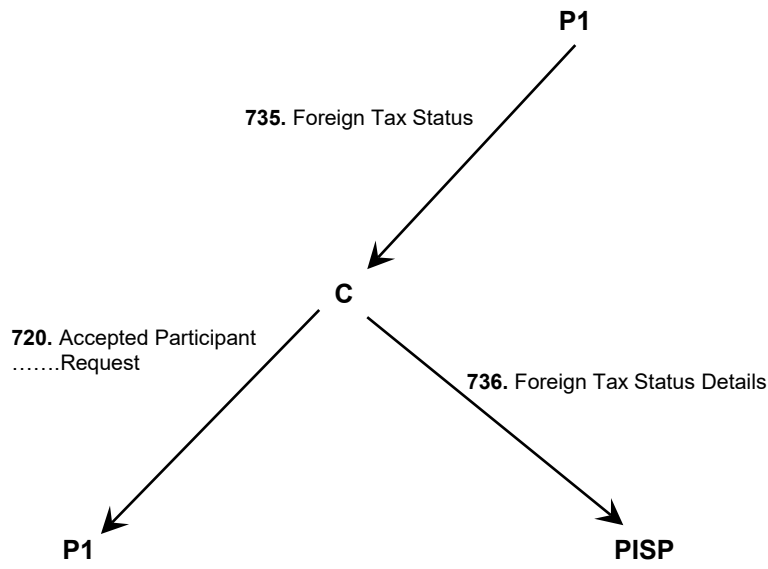


5.2.111. Fund Transfer

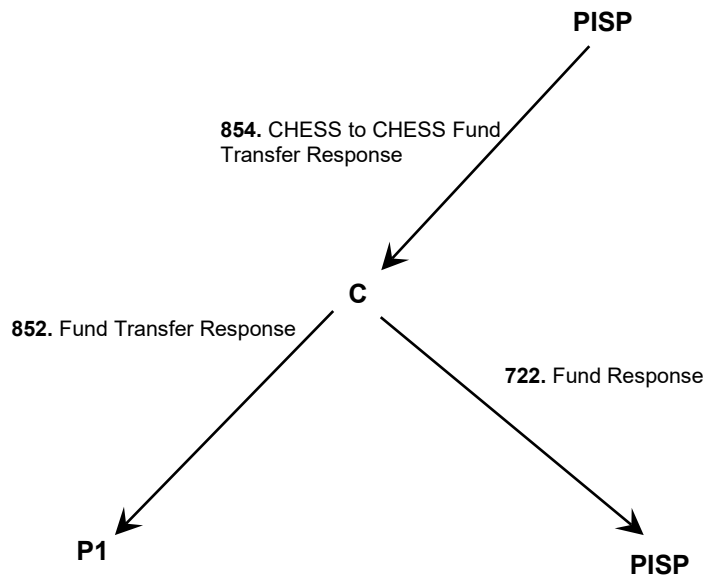
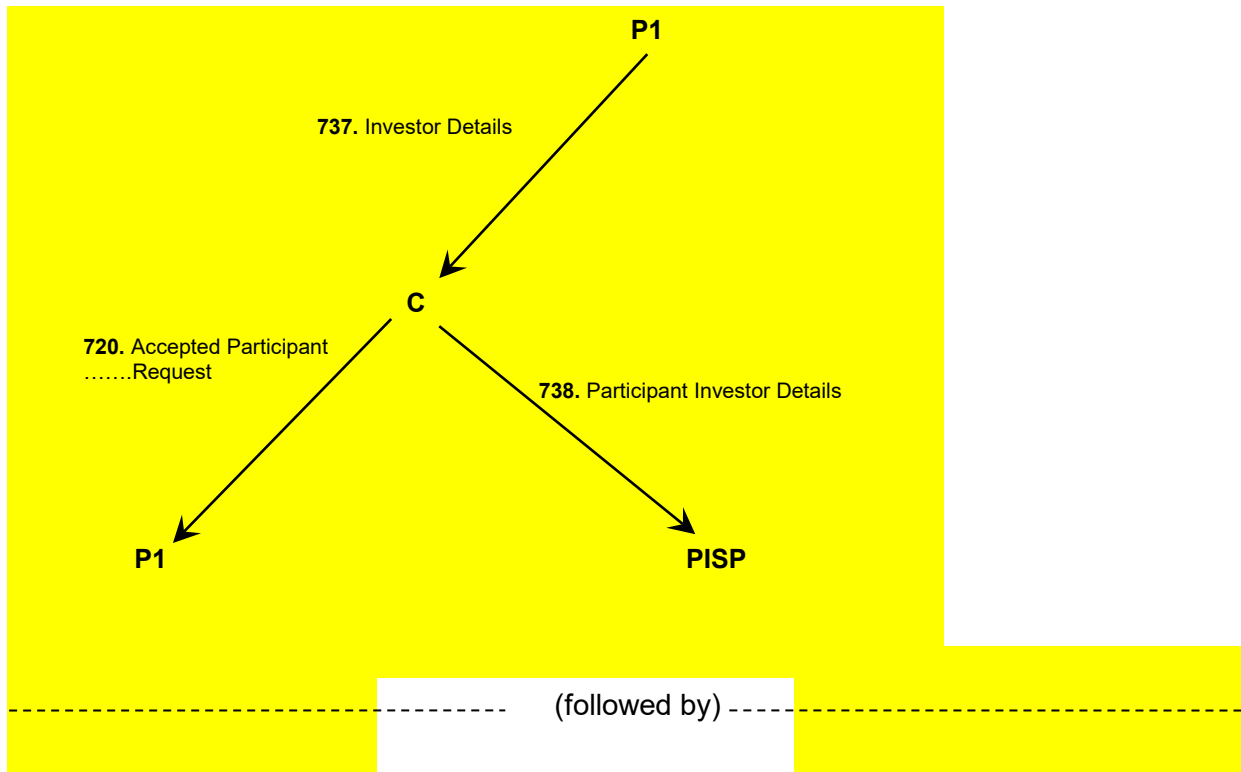


Note: For a transfer the MT735 Foreign Tax Status and MT737 Investor Detail messages must be provided by the Participant to ensure that the transfer has the appropriate supporting data to be accepted by the PISP

----- (followed by) -----



----- (followed by) -----



Section 6. Transaction ID Usage Examples

The purpose of this section is to provide examples of the various transaction identifiers used throughout CHES and their relationship with each other across different messages.

Section 5.2 shows various relationships between messages, but the use of the transaction identifiers within these is common across many of those diagrams. Hence a representative example has been chosen from section 5.2 to illustrate the different types of transaction identifier usage. The subsections below are referenced from section 5.2.

To understand the usage of transaction identifiers in a given message in a diagram from section 5.2, relate that message to the one in the referenced example in section 6 which occupies the same physical position in the corresponding diagram.

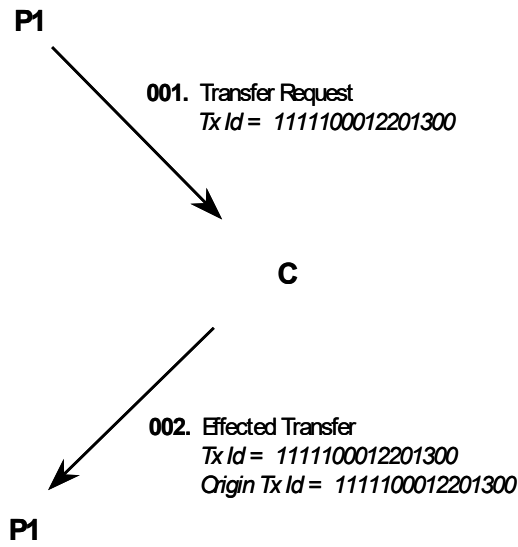
The following conventions have been adopted in the examples:

- The UIC for Participant 1 is 11111;
- The UIC for Participant 2 is 22222;
- The UIC for the Registry is 33333 (assuming that the same registry is used throughout all of these examples);
- The UIC for ASX Clearing Corporation is 44444;
- The UIC for Payment Provider 1 is 55555; and
- The UIC for Approved Market Operators is 66666

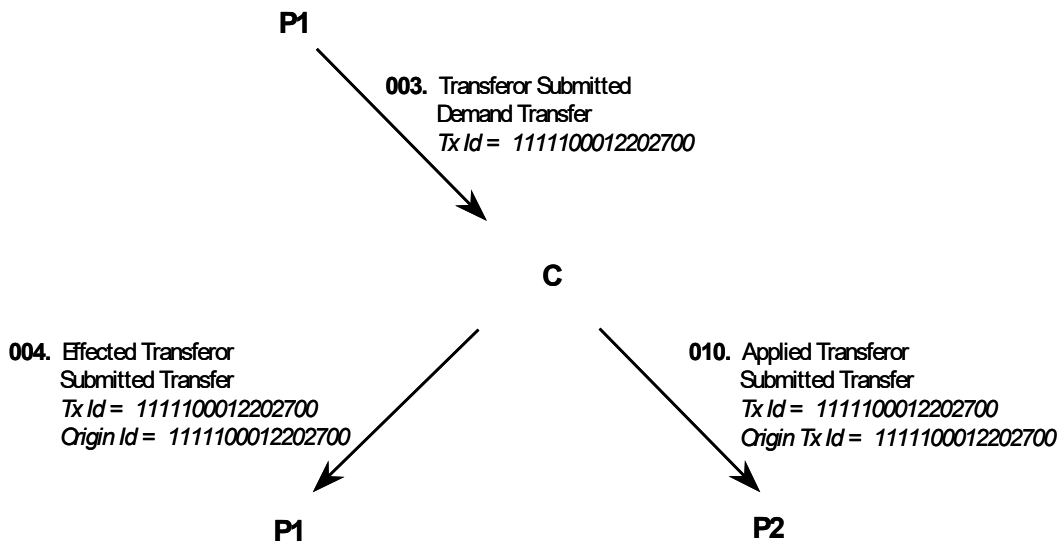
The descriptions of transaction identifiers and their usage in section 8.3 should be read prior to analysing the following examples.

The values for the 9 character user component of the transaction identifiers in the following examples have been chosen randomly and have no significance other than to demonstrate the relationship between identifiers on different messages within a sequence.

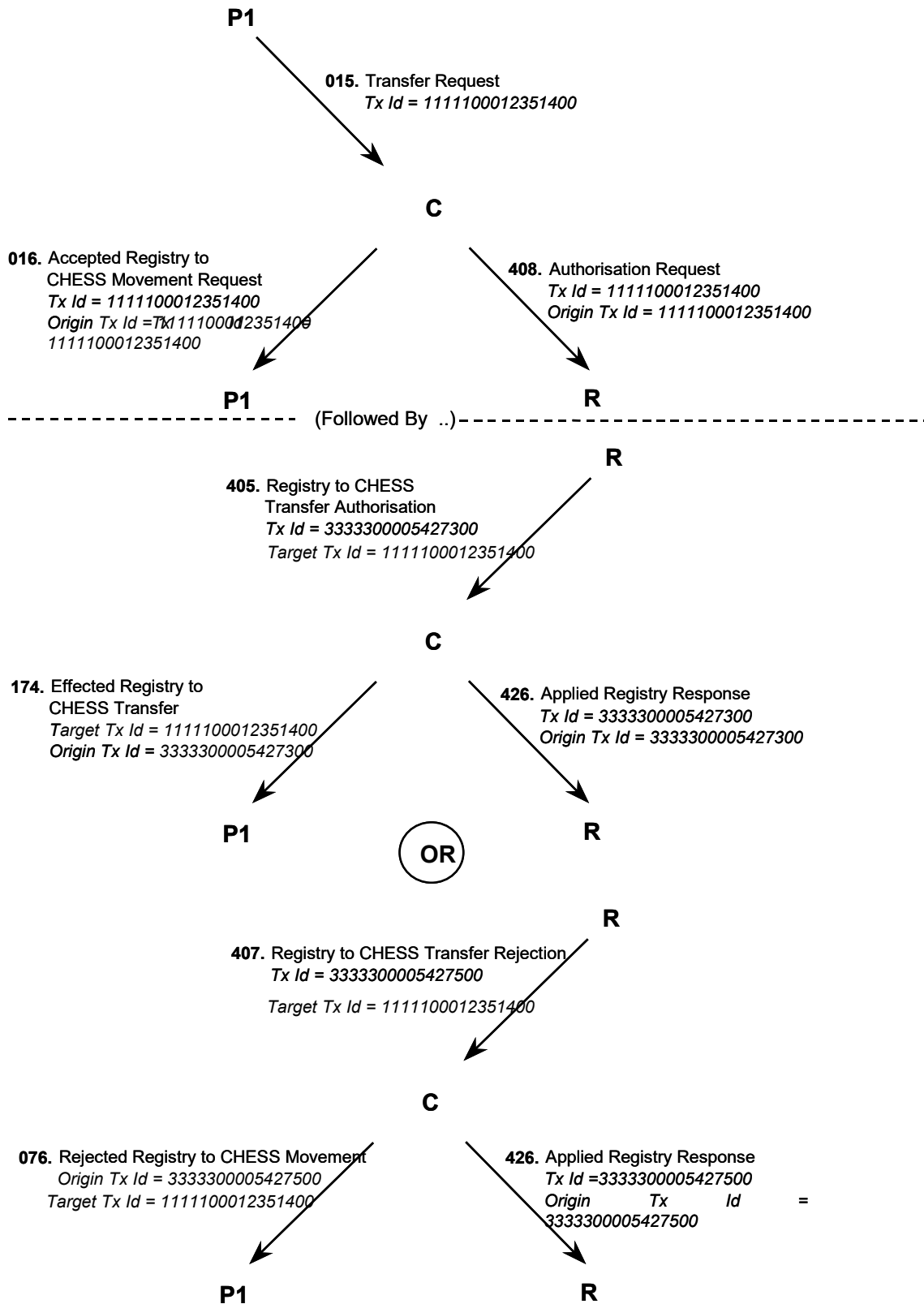
6.1. Type 1 (Demand Single Entry CHESS to CHESS Transfer)



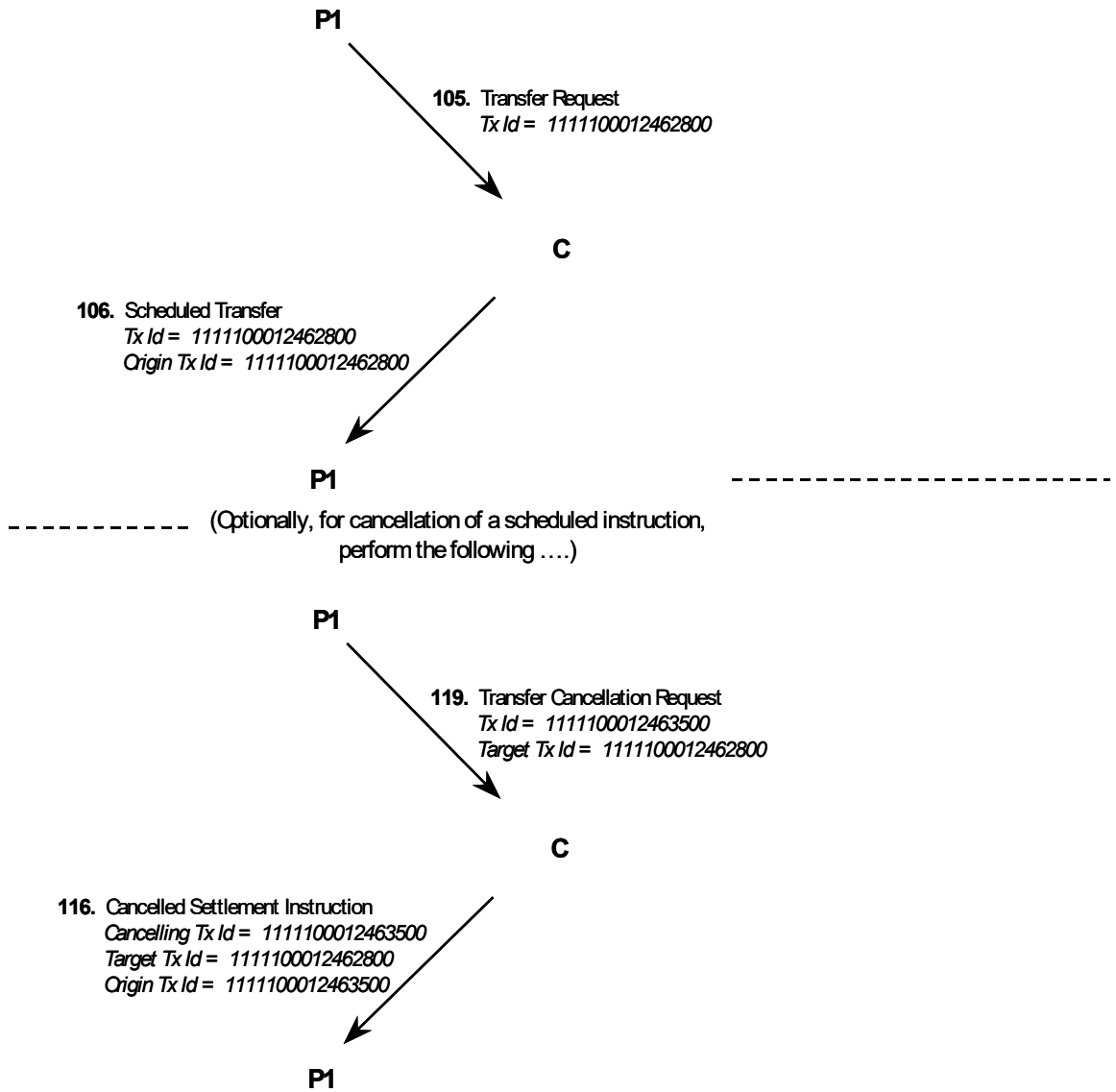
6.2. Type 2 (Transferor Submitted Demand Transfer)



6.3. Type 3 (Issuer Sponsored to CHES Transfer)

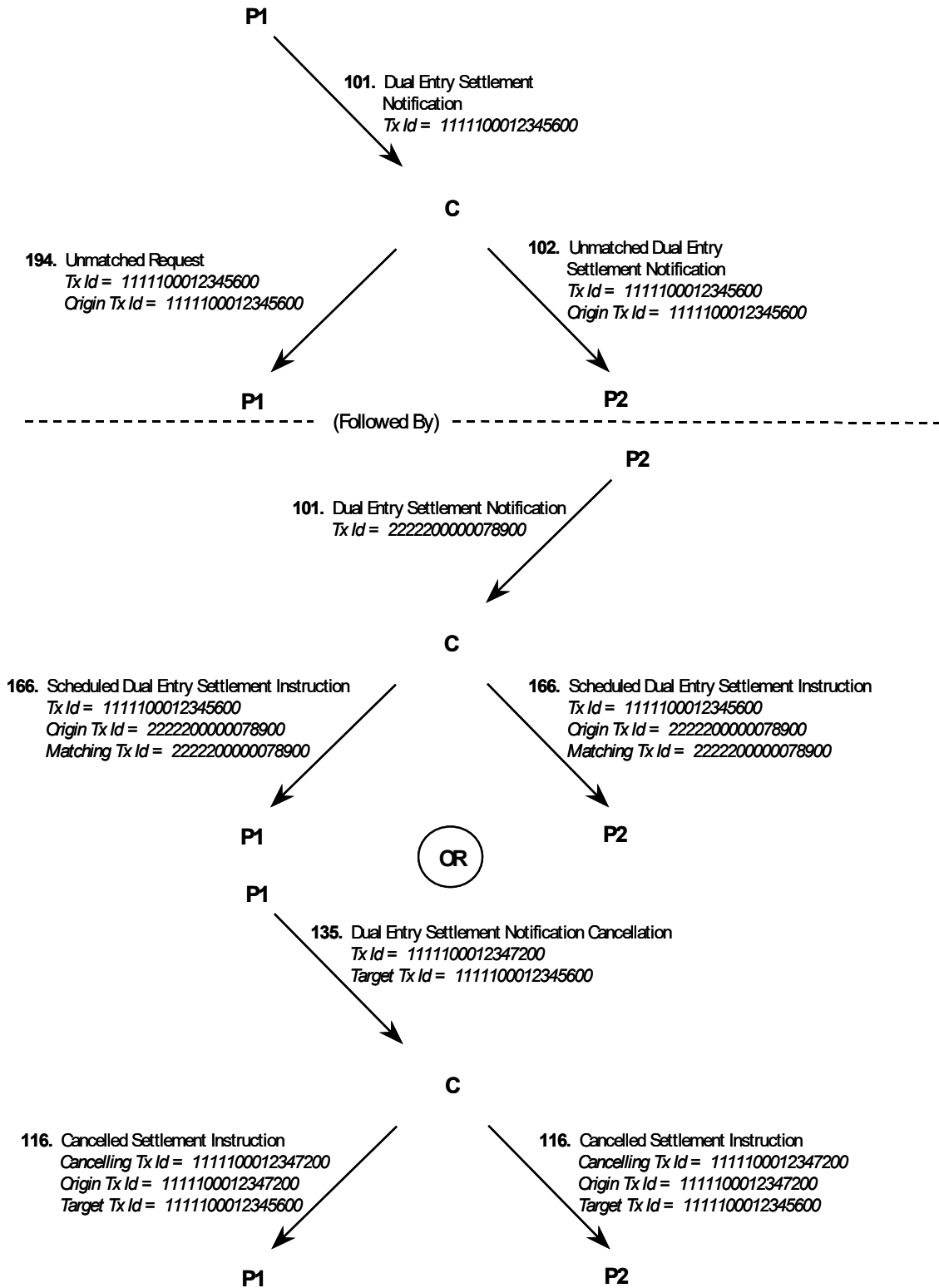


6.4. Type 4 (Single-Entry Settlement CHES to CHES Transfer)



6.5. Type 5 (Dual Entry Settlement Notification)

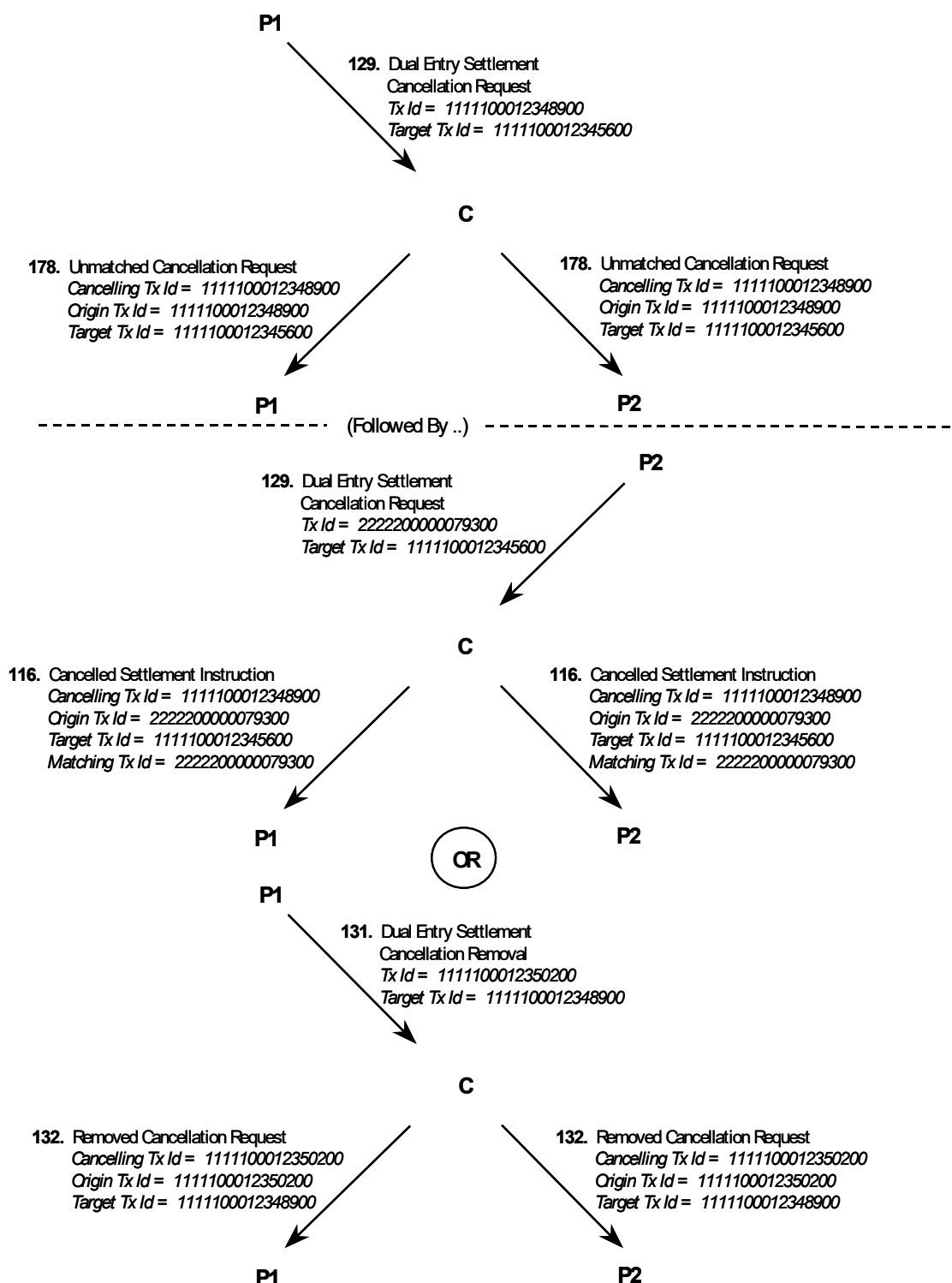
6.5.1. Type 5.1 (Entry of Matching Dual Entry Data)



6.5.2. Type 5.2 (Entry of Matching Cancellation Requests for Matched Data)

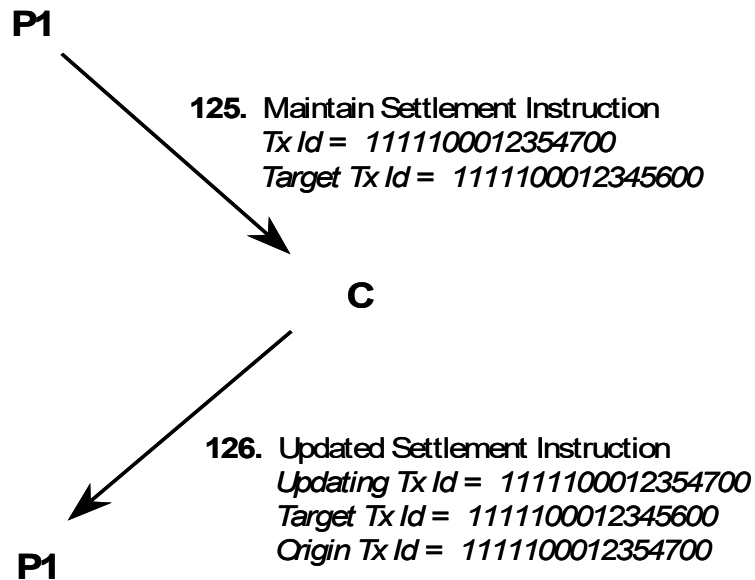
The transaction identifiers in this example refer to those used in Type 5.1. That is, this example follows on from the point of successfully matching initial dual entry details.

For optional Matched Trade Cancellation



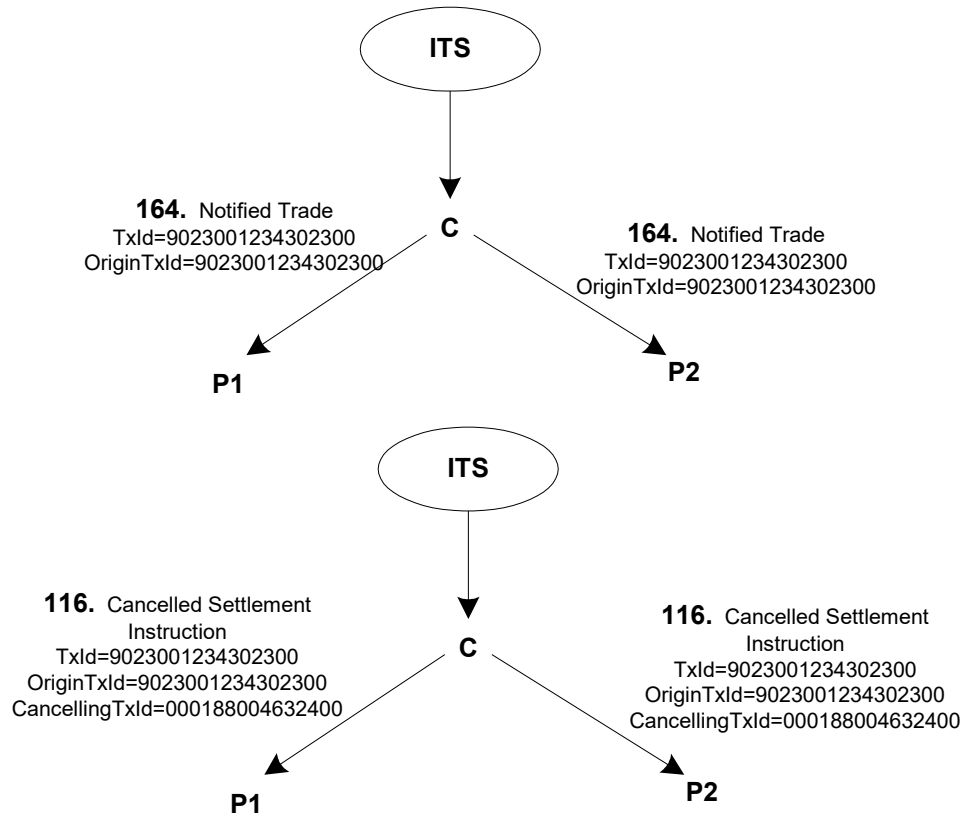
6.6. Type 6 (Maintain Settlement Instruction)

The transaction identifiers in this example refer to those used in Type 5.1. That is, this example follows on from the point of successfully matching initial dual entry details.

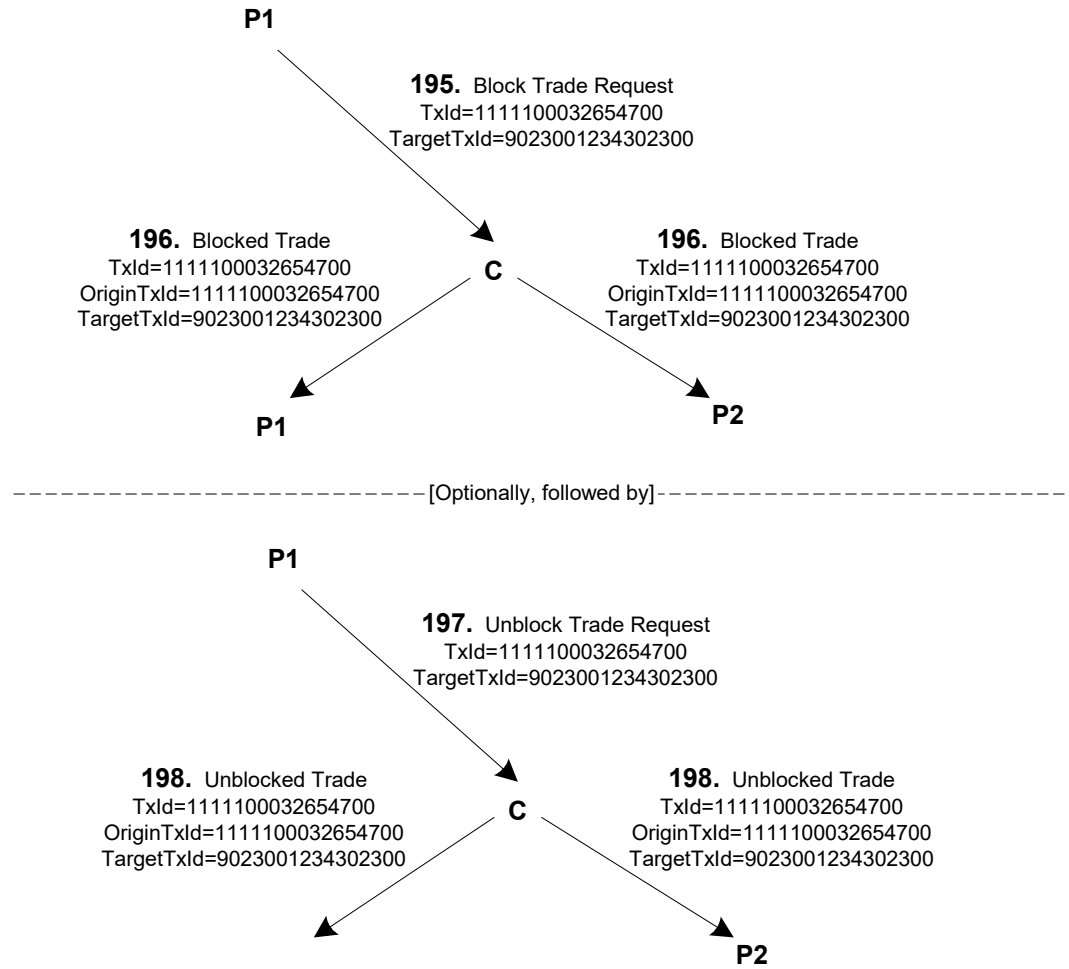


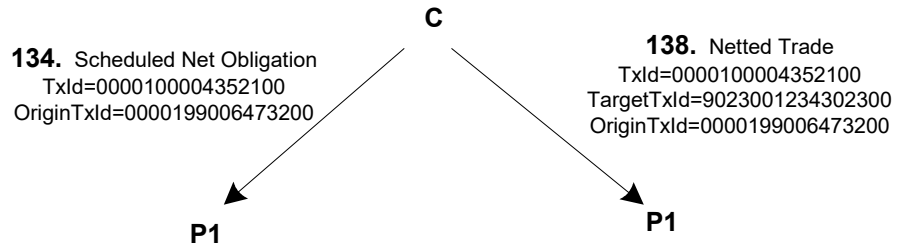
6.7. Type 7 (Notified Broker Broker Trade and Cancellation)

The transaction identifier in this example refers to the unique identifier allocated by CHES.

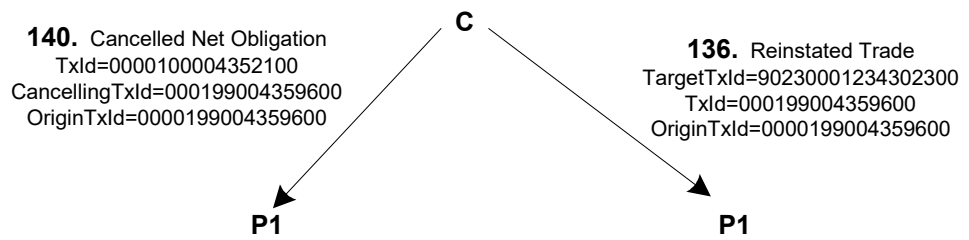


6.8. Type 8 (Blocked / Unblocked Trade)

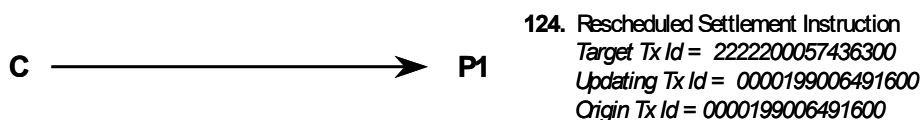


6.9. Type 9 (Netting/Netting Removal)

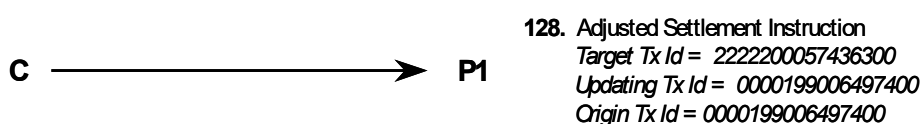
-----[Optionally, followed by]-----



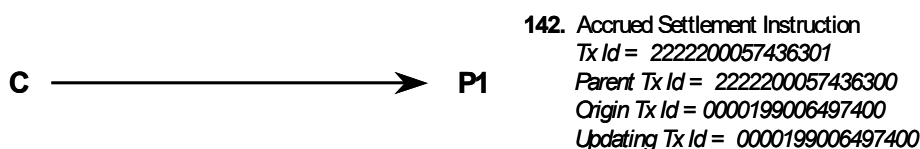
6.10. Type 10 (Corporate Actions)



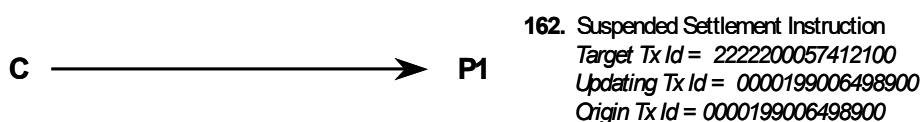
The settlement instruction with Transaction Id of 2222200057436300 has been rescheduled due to a corporate action. Transaction Id 0000199006491600 has been allocated by CHES to the transaction that recorded the rescheduling action.



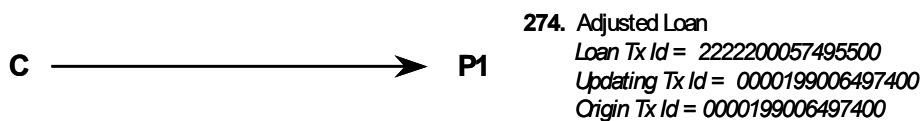
The settlement instruction with Transaction Id of 2222200057436300 has been diary adjusted due to a corporate action. Transaction Id 0000199006497400 has been allocated by CHES to the transaction that performed the adjustment. There is no Matching Transaction Id in this situation.



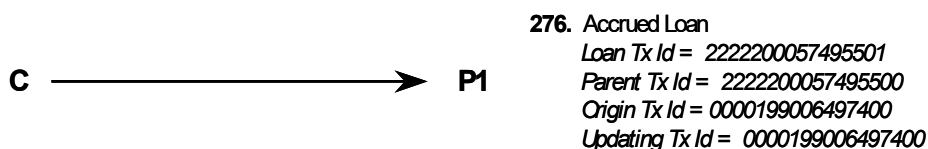
The settlement instruction with Transaction Id of 2222200057436300 has been diary adjusted resulting in an accrued settlement instruction with Transaction Id of 2222200057436301 being generated. Transaction Id 0000199006497400 has been allocated by CHES to the transaction that recorded the adjustment. A message 142 will always have a corresponding message 128 and they will have the same Origin and Updating Transaction Ids. In the above example, the Parent Transaction Id of the message 142 is the same as the Target Transaction Id of the message 128. (Note that the reverse is not true - a message 128 does not always have a corresponding message 142.)



The settlement instruction with Transaction Id of 2222200057412100 has been suspended due to a corporate action. Transaction Id 0000199006498900 has been allocated by CHESSE to the transaction that performed the suspension.

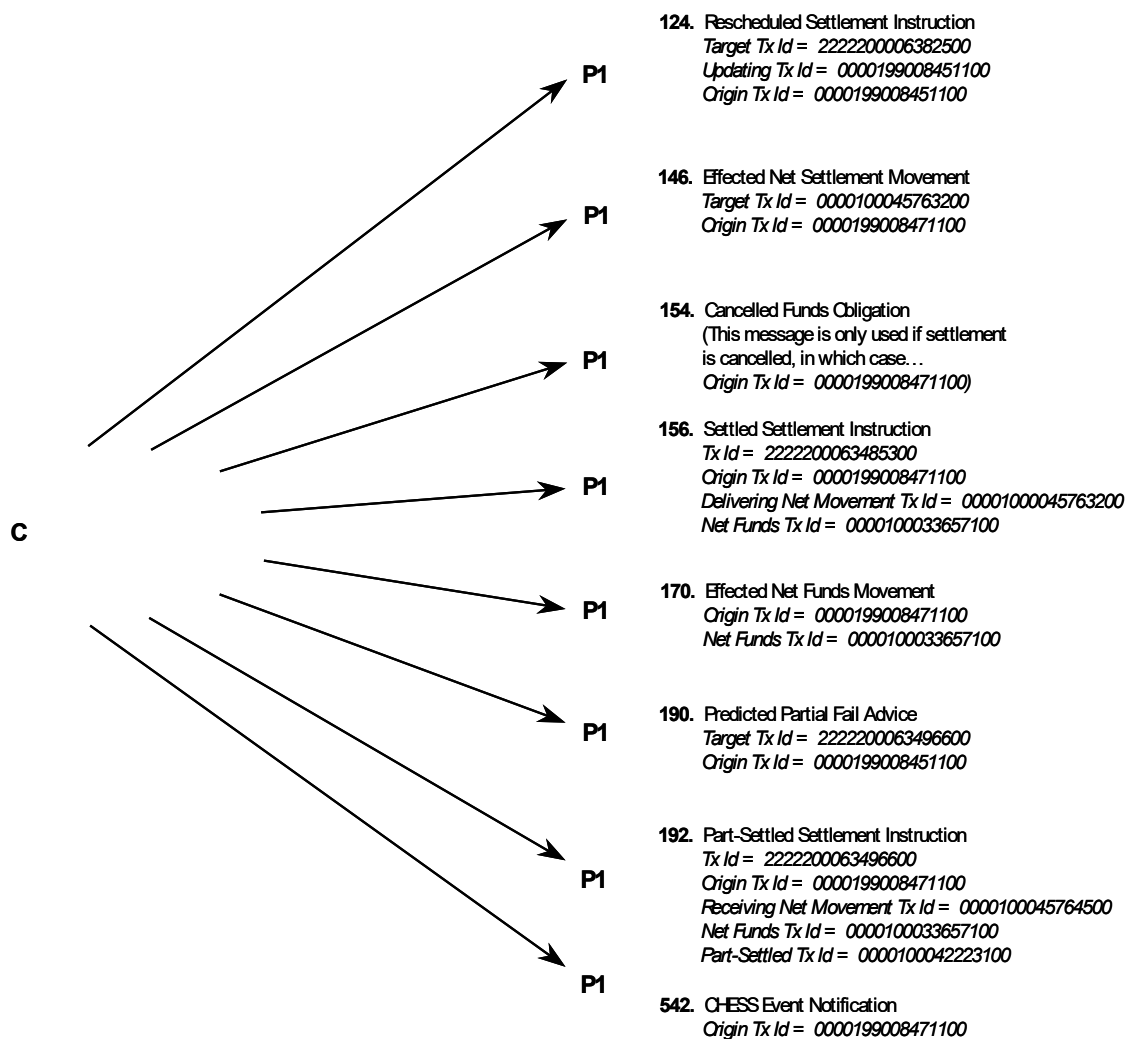


The loan instruction with Transaction Id of 2222200057495500 has been diary adjusted due to a corporate action. Transaction Id 0000199006497400 has been allocated by CHESSE to the transaction that performed the adjustment.



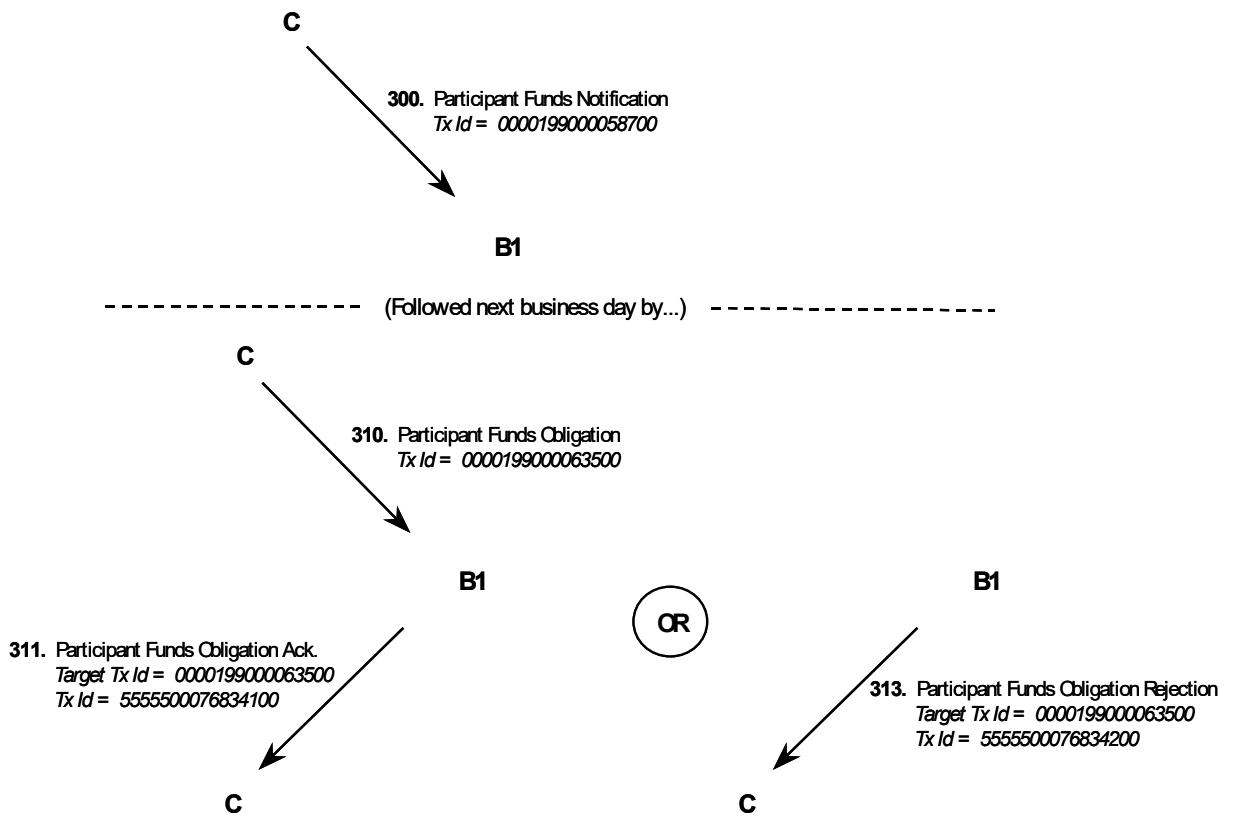
The loan instruction with Transaction Id of 2222200057495500 has been diary adjusted resulting in an accrued loan instruction with Transaction Id of 2222200057495501 being generated. Transaction Id 0000199006497400 has been allocated by CHESSE to the transaction that recorded the adjustment. A message 276 will always have a corresponding message 274 and they will have the same Origin and Updating Transaction Ids. In the above example, the Parent Transaction Id of the message 276 is the same as the Loan Transaction Id of the message 274. (Note that the reverse is not true - a message 274 does not always have a corresponding message 276.)

6.11. Type 11 (Settlement)

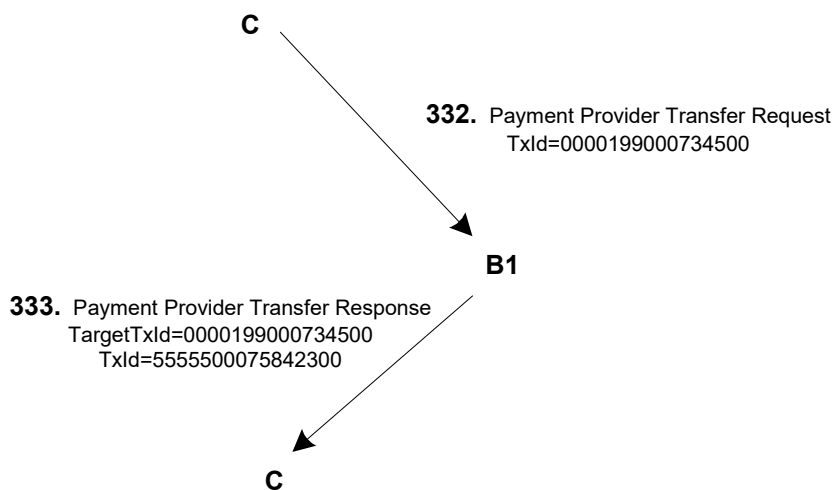


The above diagram indicates that the settlement instruction with Transaction Id 2222000063485300 was settled as part of a Net Settlement Movement with a Delivering Transaction Id of 0000100045763200 and Net Funds Movement with Transaction Id 0000100033657100. As shown above, the settlement instruction was delivering units. The settlement instruction with Transaction Id 222200006382500 could not be settled and has been rescheduled. All the above messages, other than the Rescheduled Settlement Instruction and Predicted Partial Fail Advice, were sent as a result of the settlement process which was allocated a Transaction Id of 0000199008471100 (which changes daily). The other messages were sent as part of a pre-settlement process with a Transaction Id of 0000199008451100. The part-settlement example shows the settlement instruction with Transaction Id 2222000063496600 was part-settled - the identifier 0000100042223100 was allocated to the part settlement which was part of a Net Settlement Movement with a Receiving Transaction Id of 0000100045764500 and Net Funds Movement with Transaction Id 0000100033657100. The settlement instruction was receiving units.

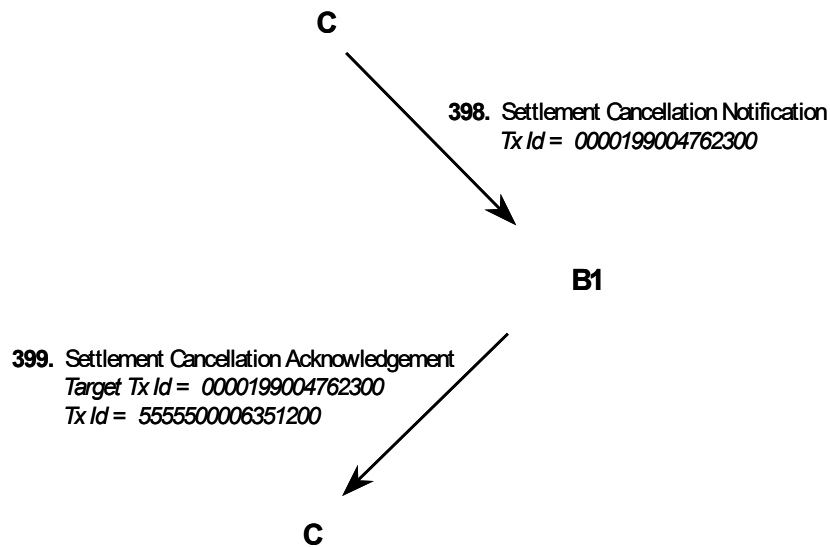
6.12. Type 12 (Funds Notification and Authorisation)



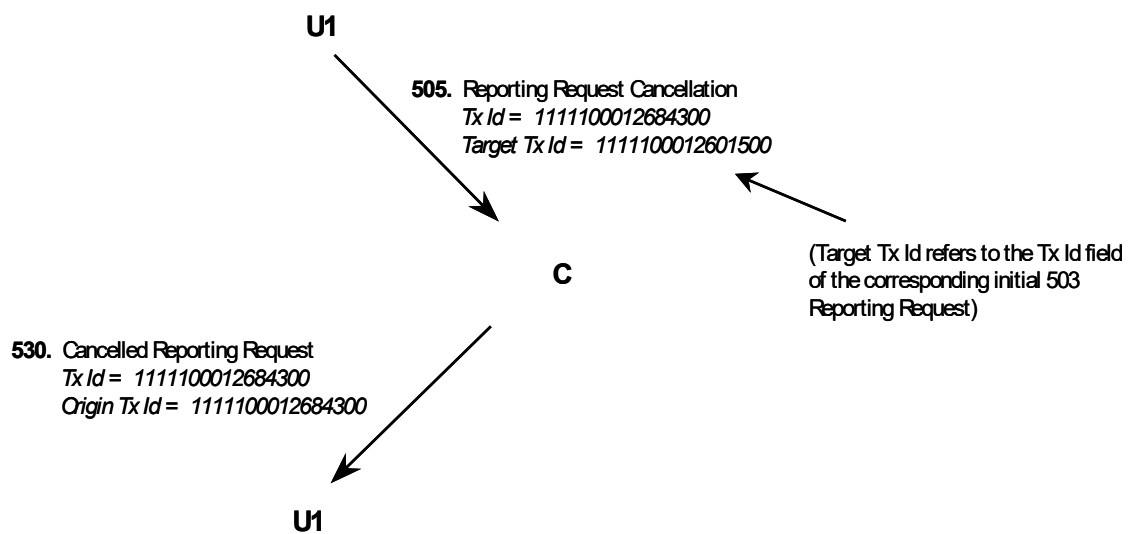
6.13. Type 13 (Funds Transfer)



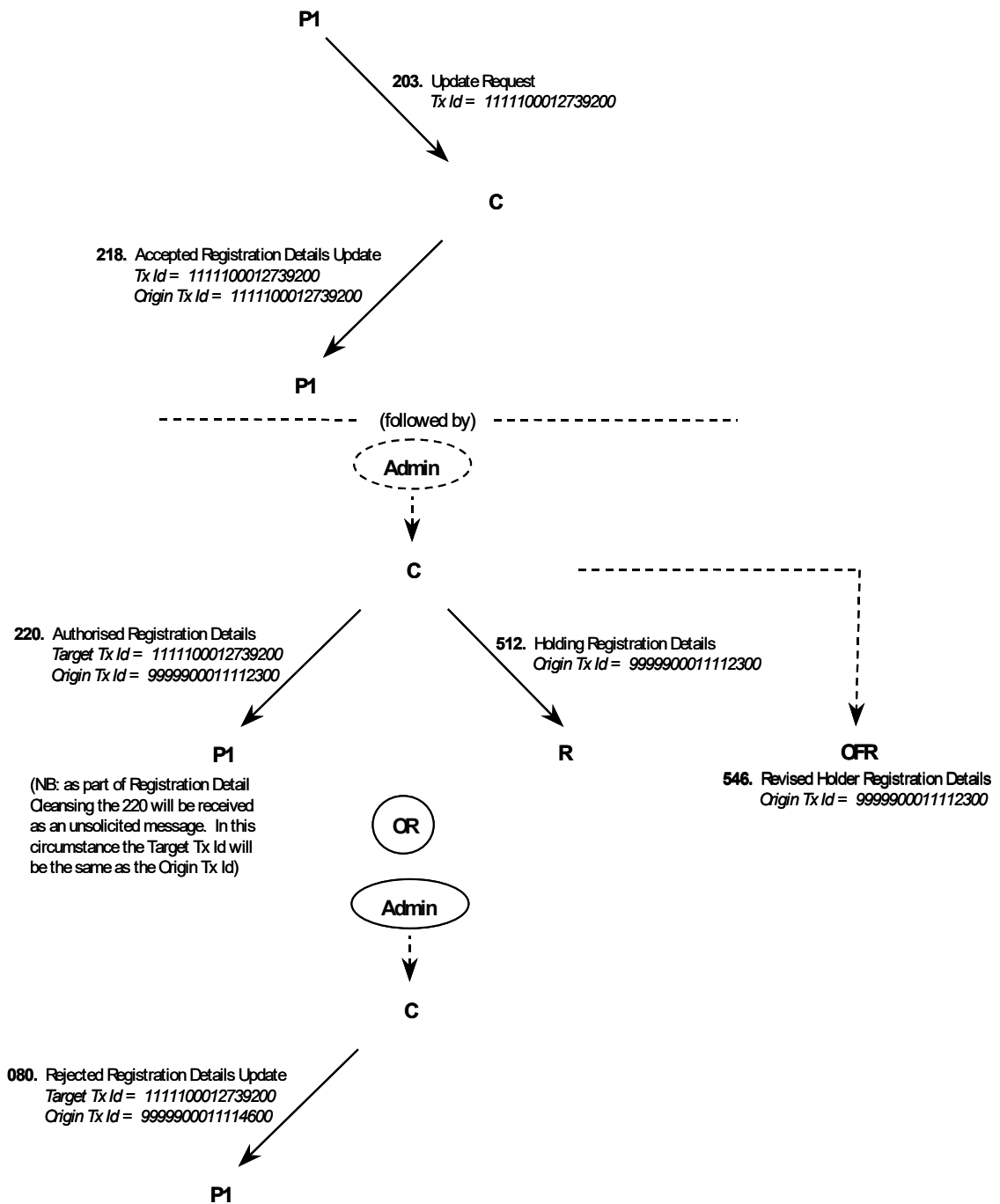
6.14. Type 14 (Funds Cancellation)



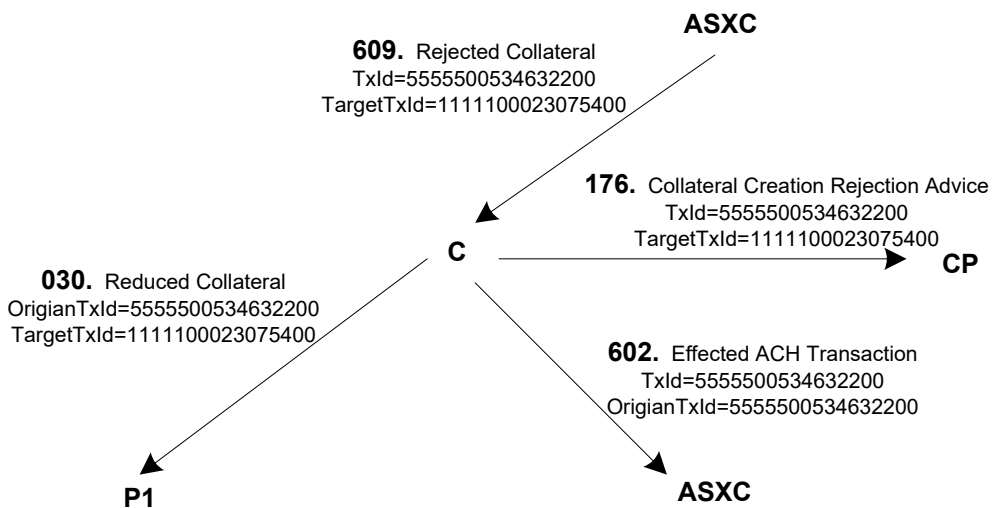
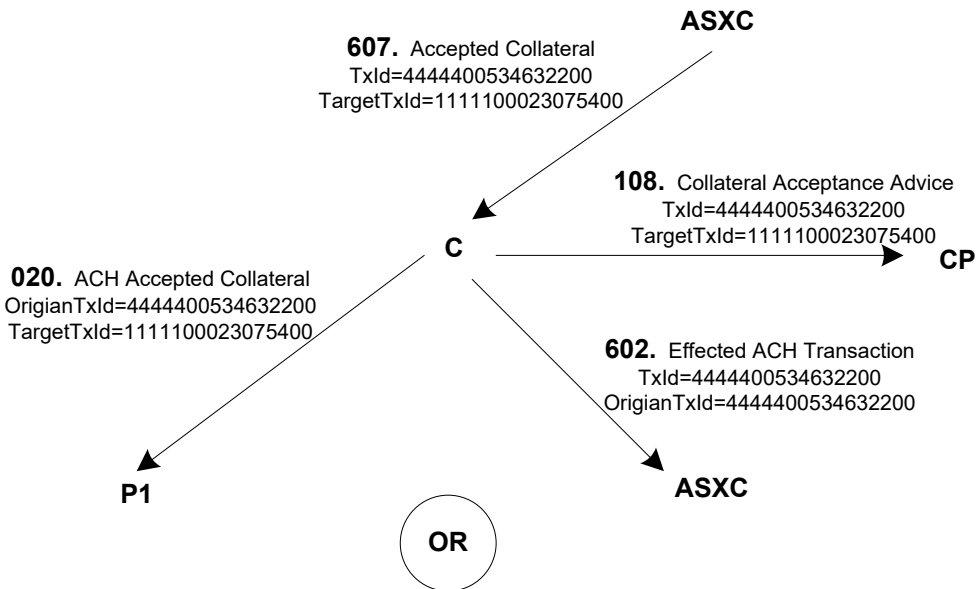
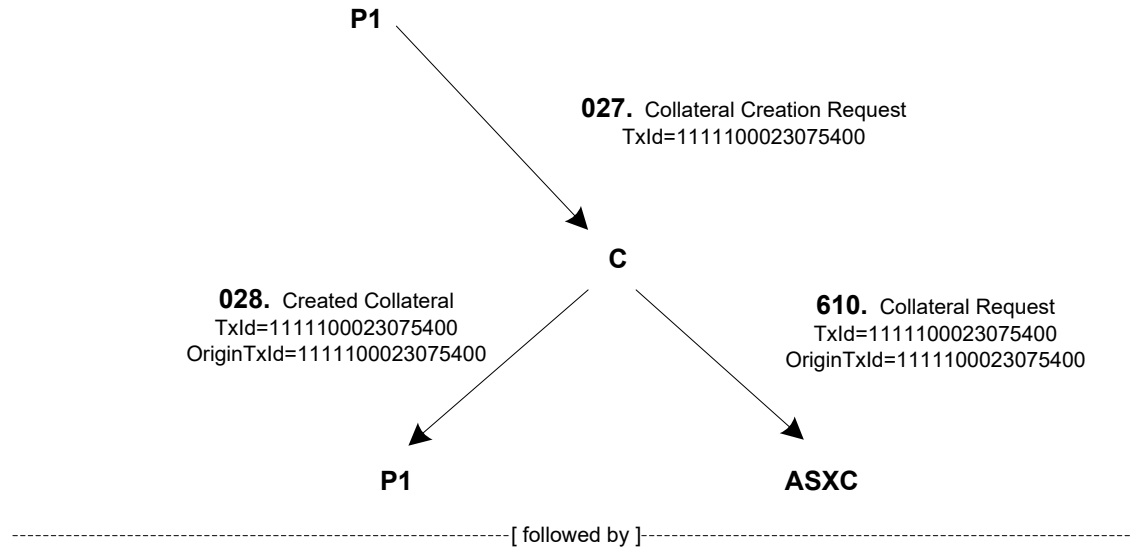
6.15. Type 15 (Reporting Request Cancellation)



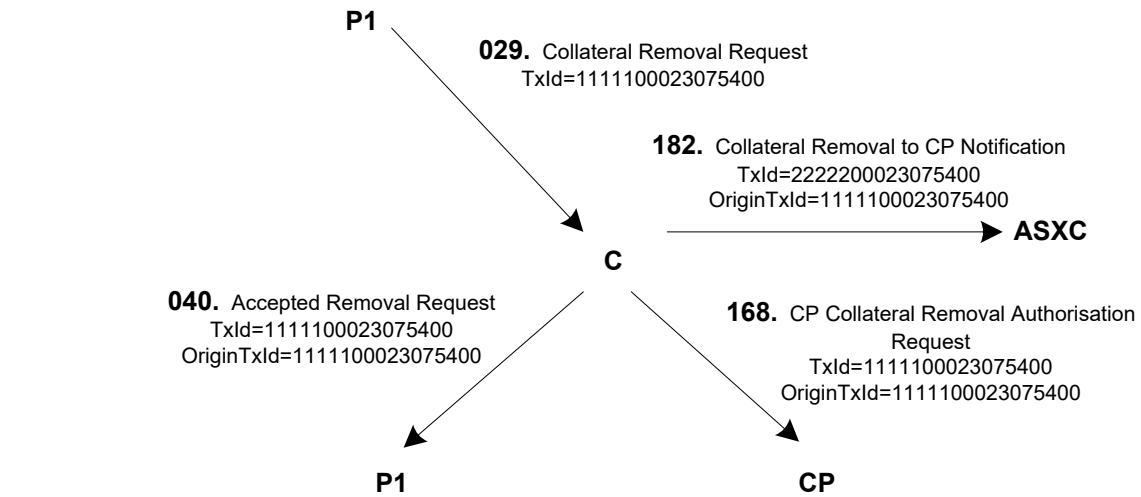
6.16. Type 16 (Registration Details Update)



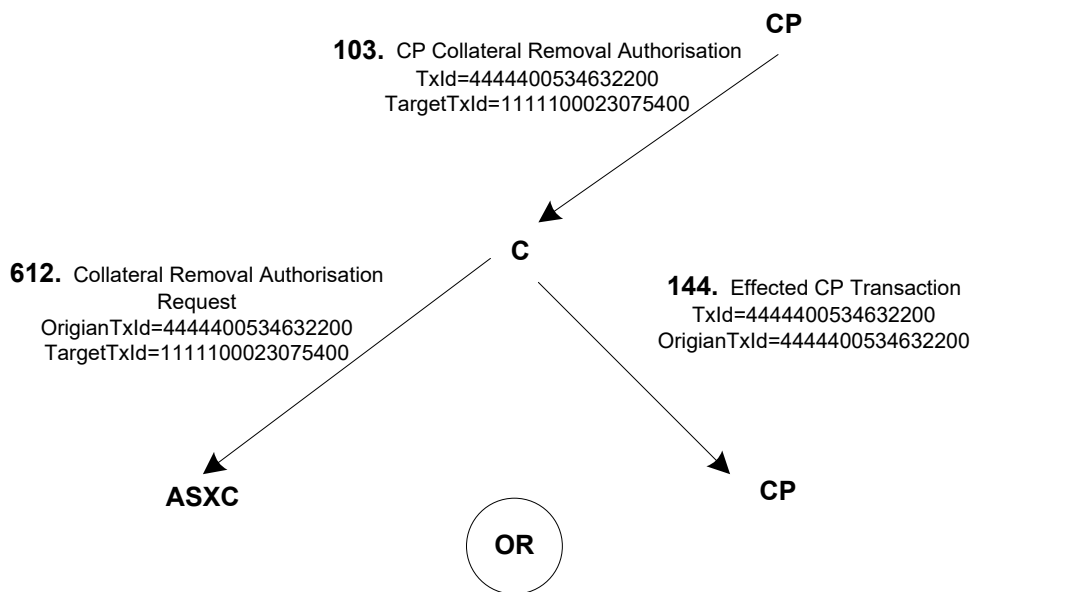
6.17. Type 17 (Collateral Creation)



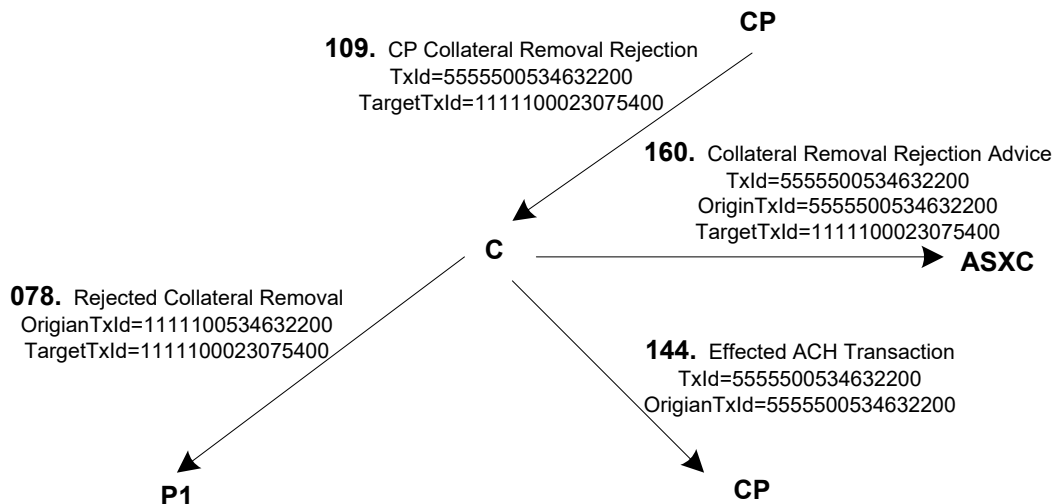
Type 18 (Collateral Removal) (Controlling Participant & Clearing Participant Differ)



[followed by]

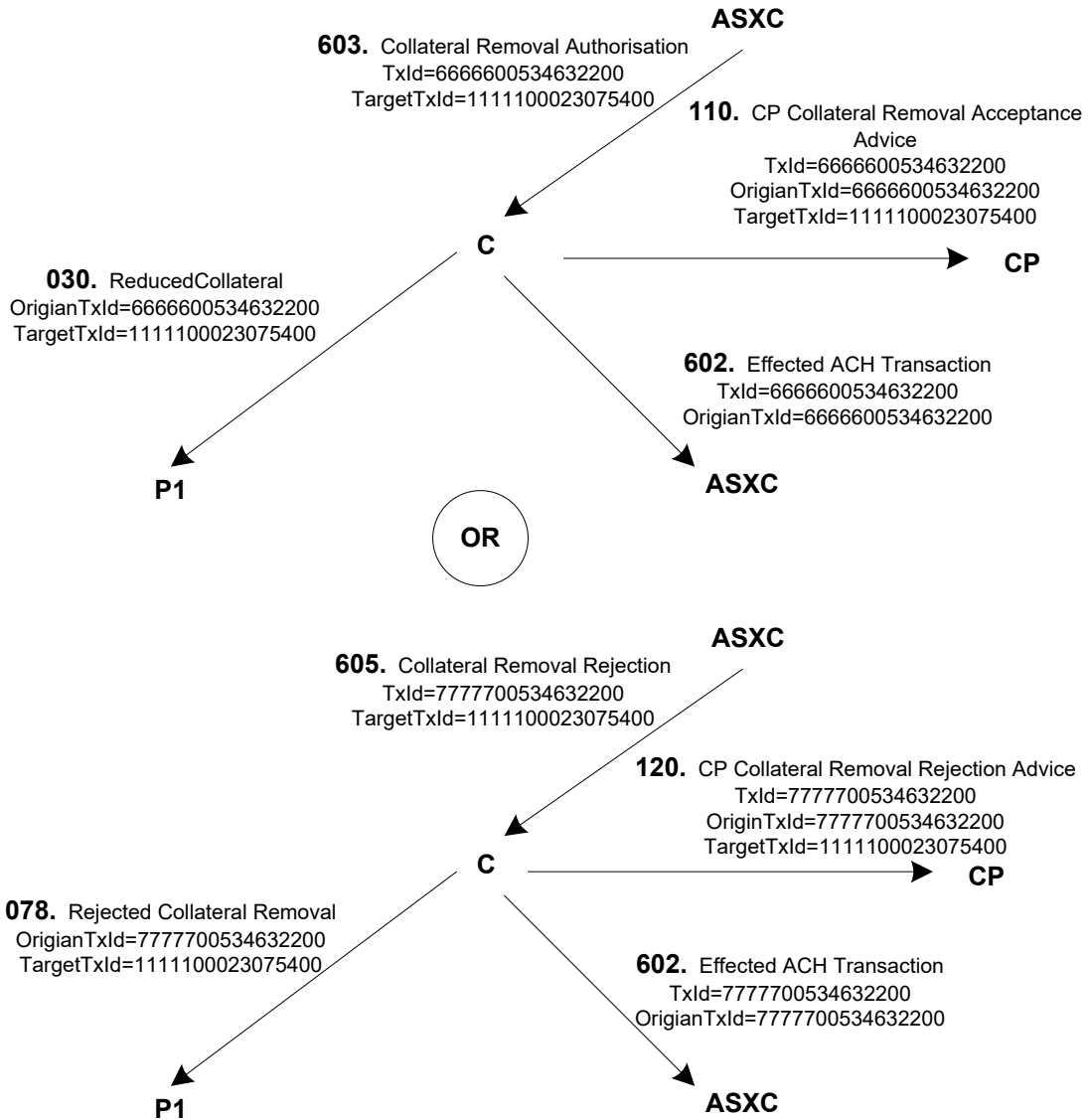


OR

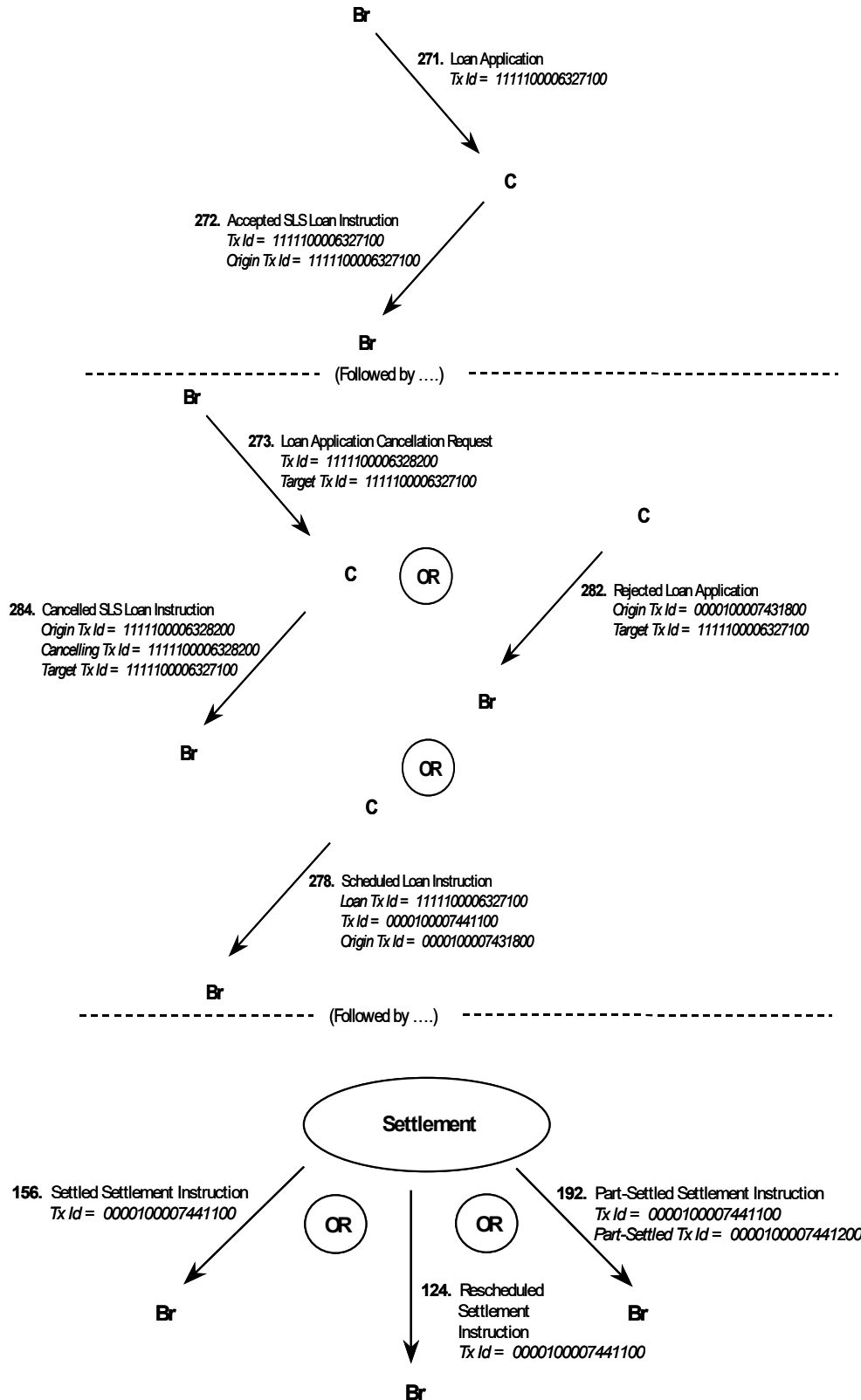


**6.18 Type 18 (Collateral Removal)
(Controlling Participant & Clearing Participant Differ)
(continued)**

----- [followed by] -----

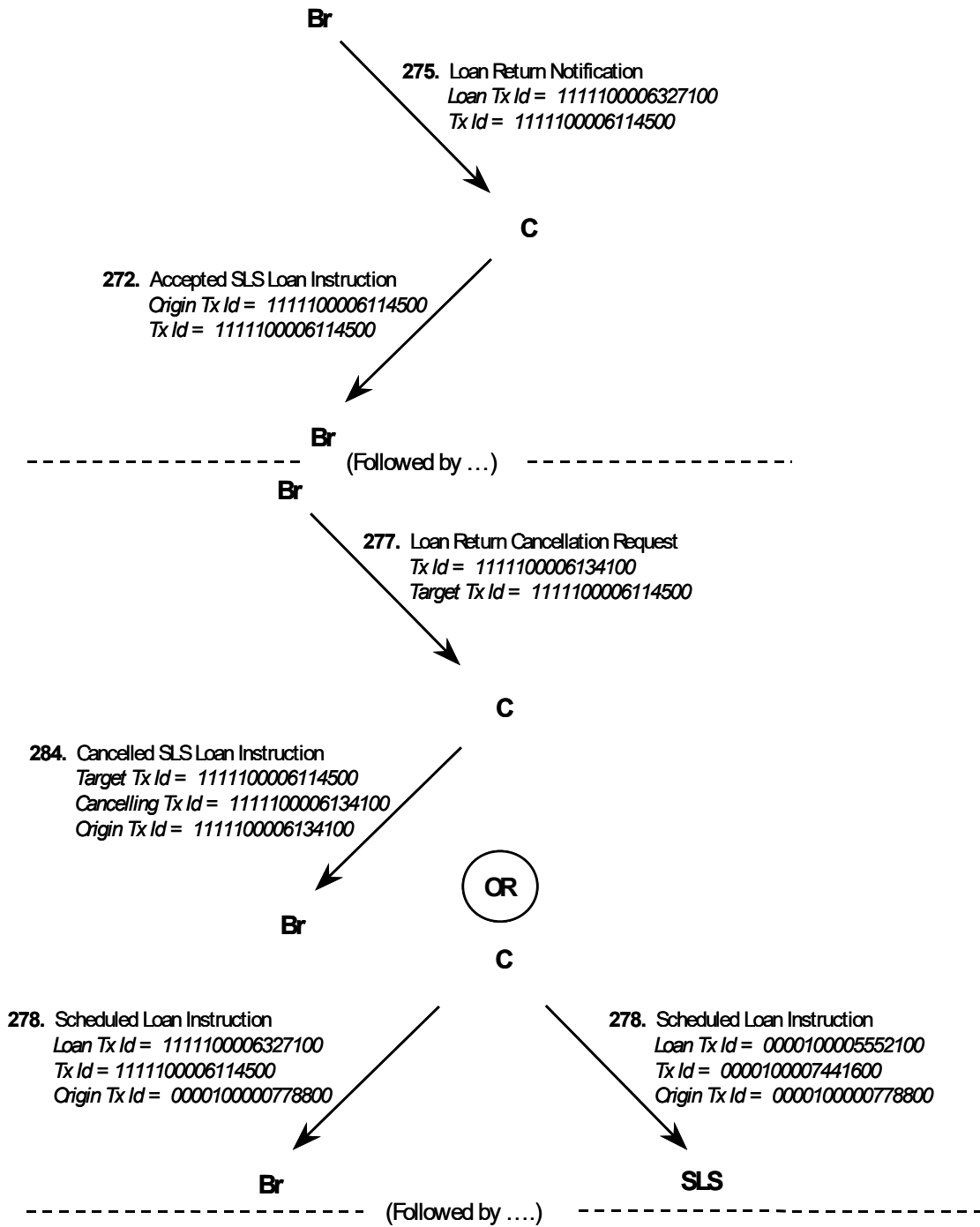


6.19. Type 19 (Loan Application)



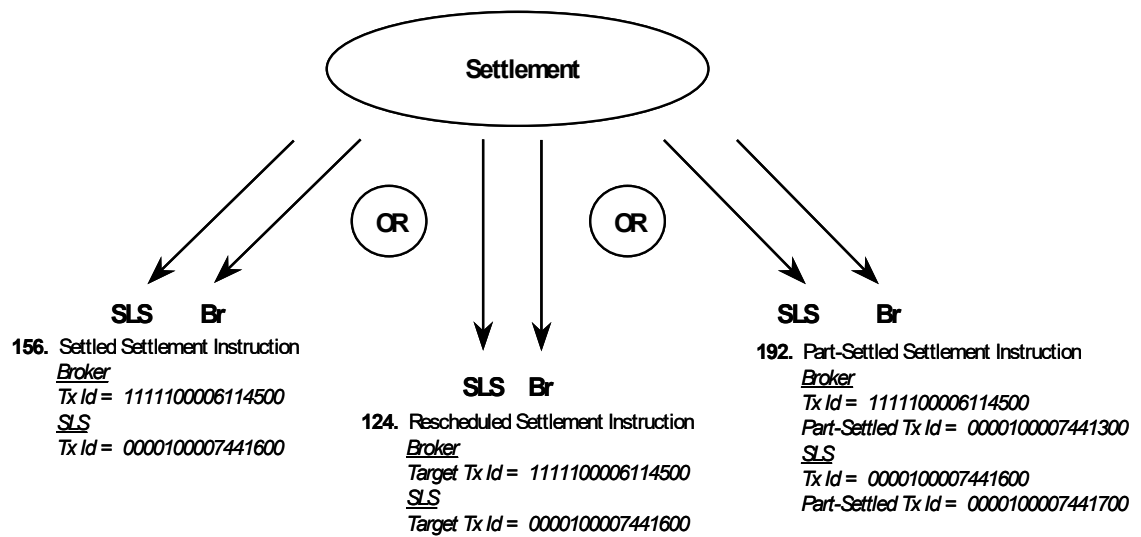
(Refer to section 5.3.11 for full example of Transaction Id usage in Settlement Process)

6.20. Type 20 (Loan Return)



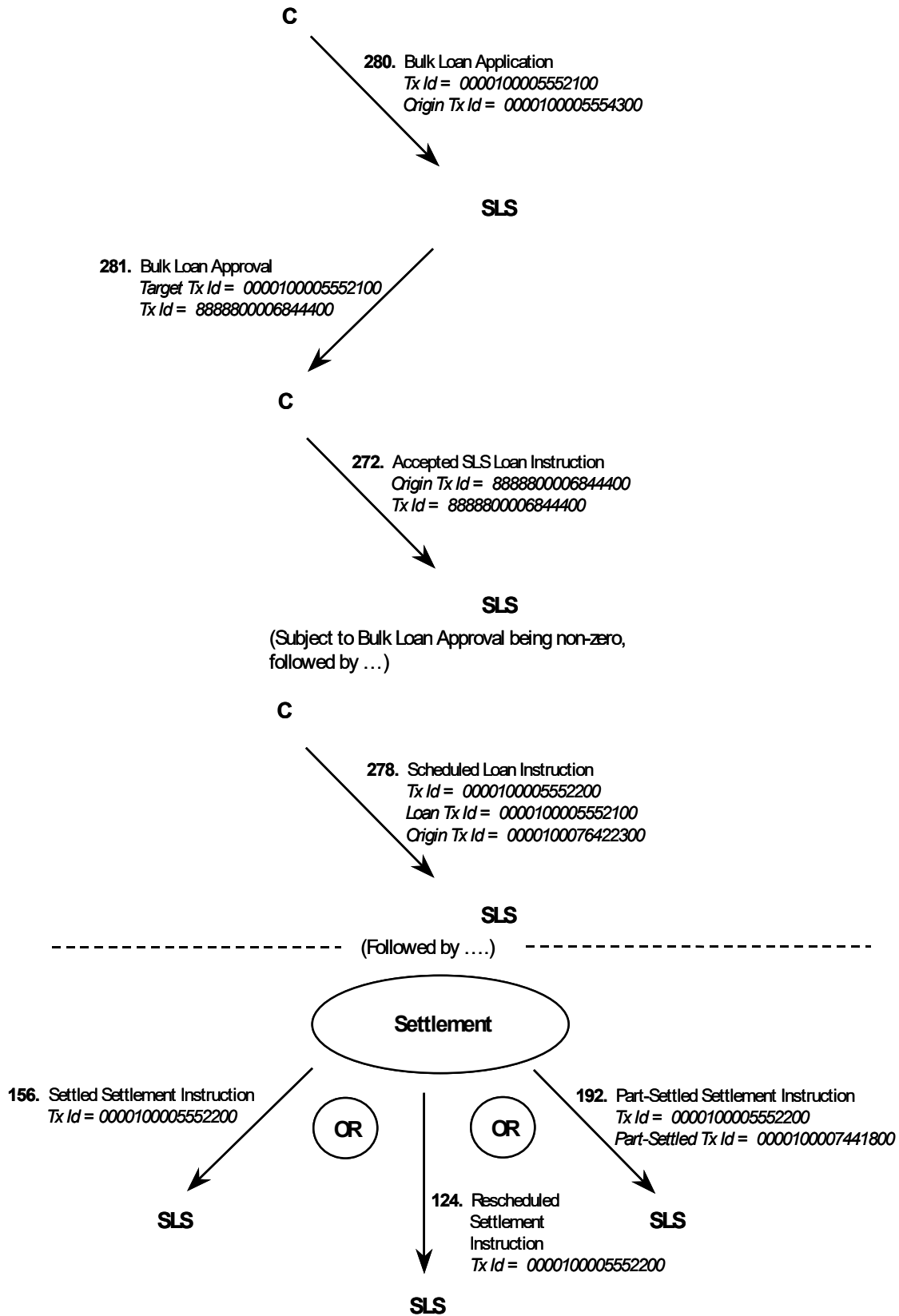
(Continued on the following page)

6.20. Type 20 (Loan Return) - (continued...)



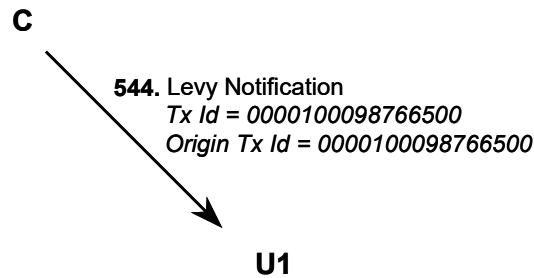
(Refer to section 5.3.11 for full example of Transaction Id usage in Settlement Process)

6.21. Type 21 (Bulk Loan Application)

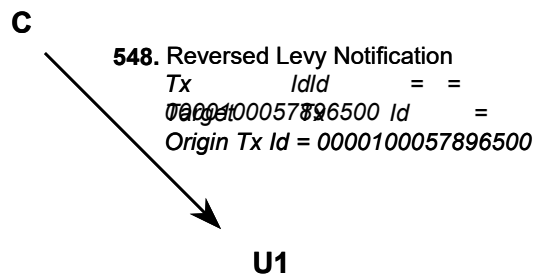


(Refer to section 5.3.11 for full example of Transaction Id usage in Settlement Process)

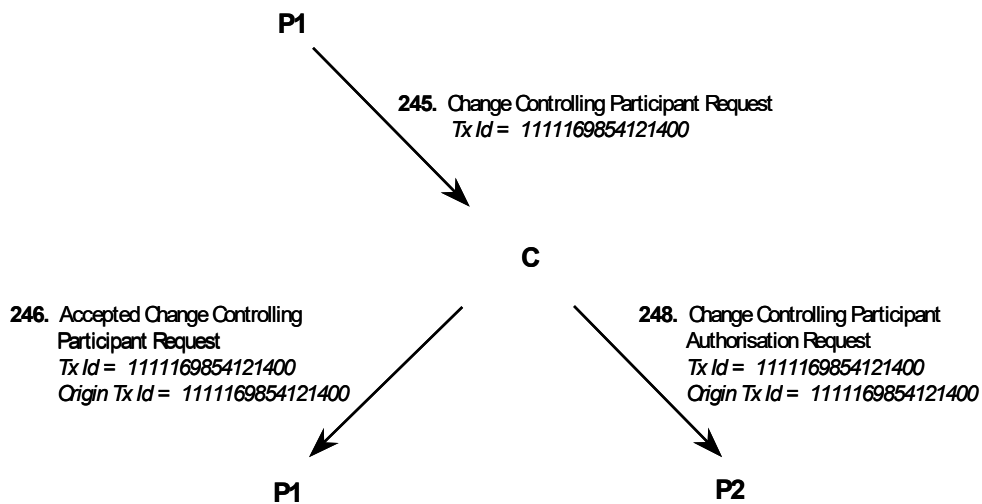
6.22. Type 22 (Levy Notification and Reversal)



----- (Optionally, where Settlement Administration reverses the Levy)



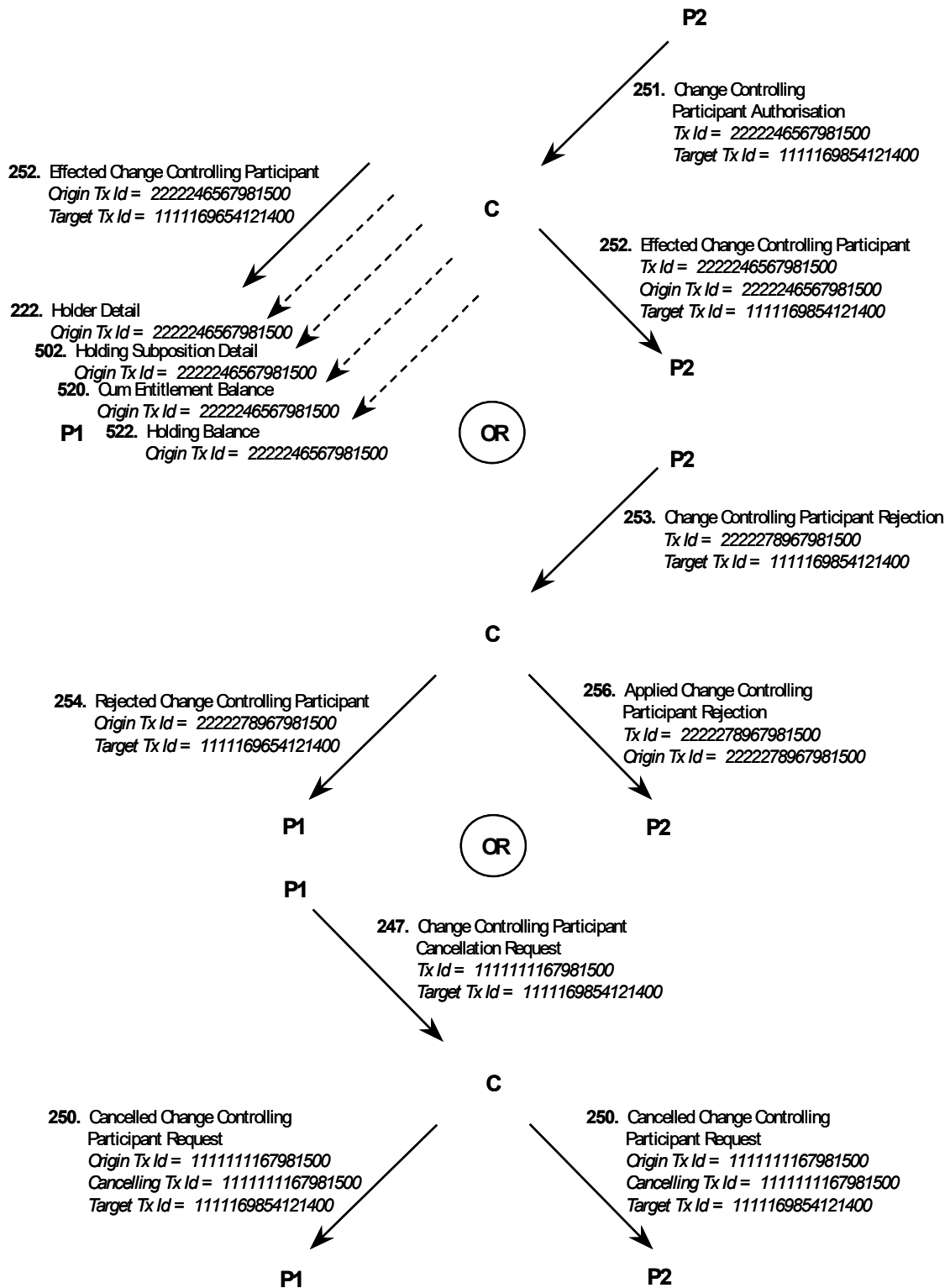
6.23. Type 23 (Change Controlling Participant and Cancel Change Controlling Participant)



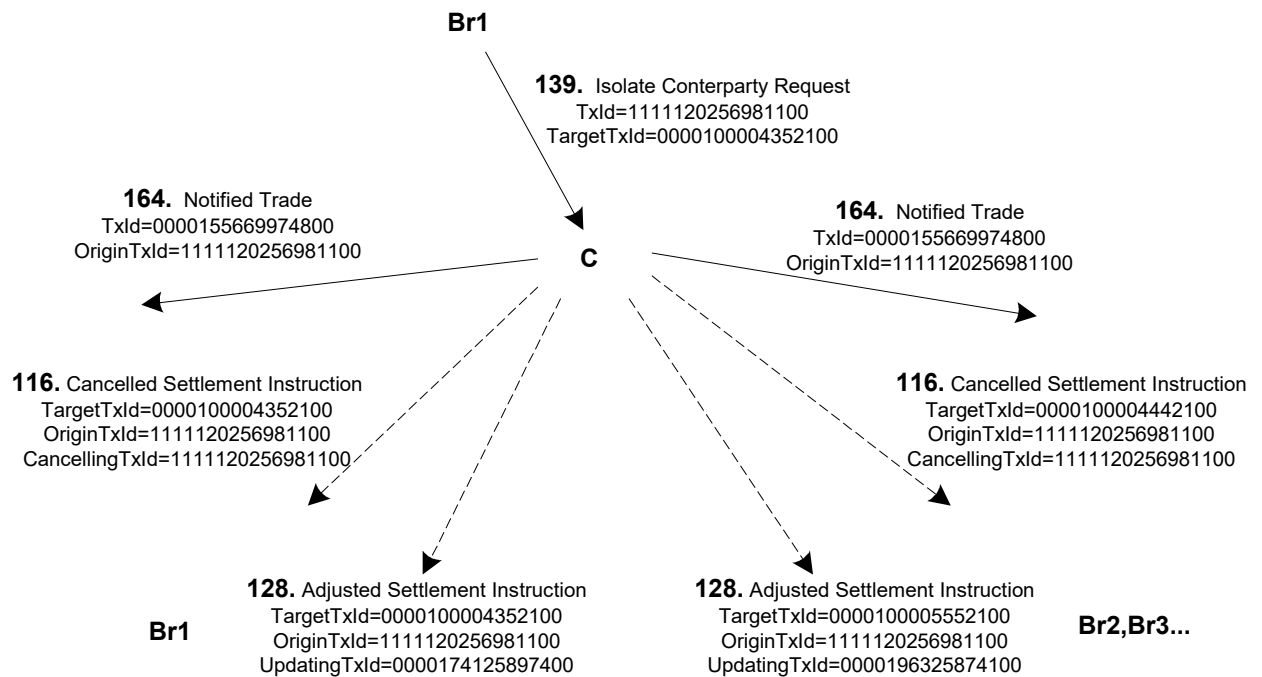
----- (followed by) -----

(Continued on the following page)

6.23. Type 23 (Change Controlling Participant and Cancel Change Controlling Participant) - (continued...)

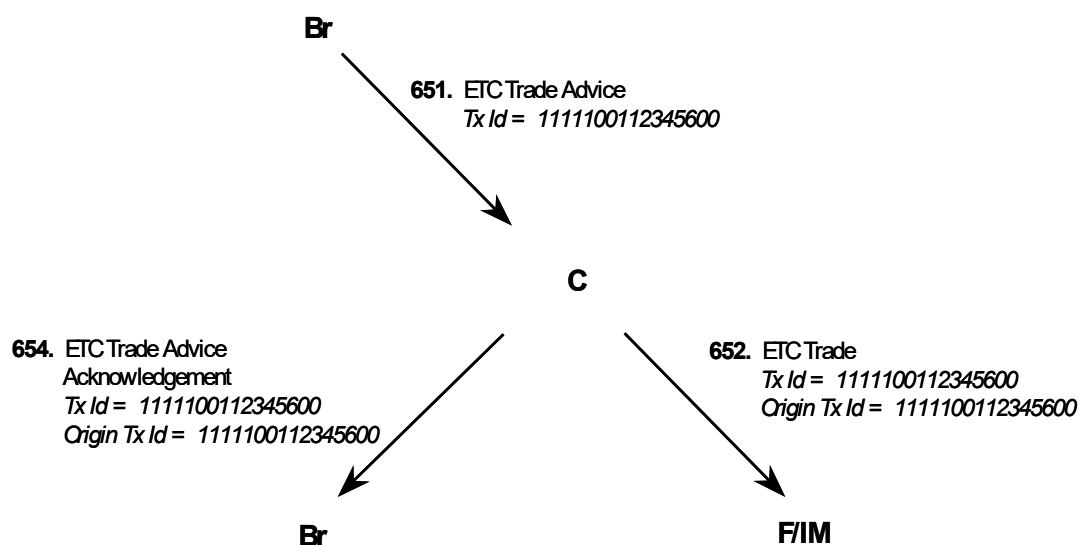


6.24. Type 24 (Isolate Counterparty)

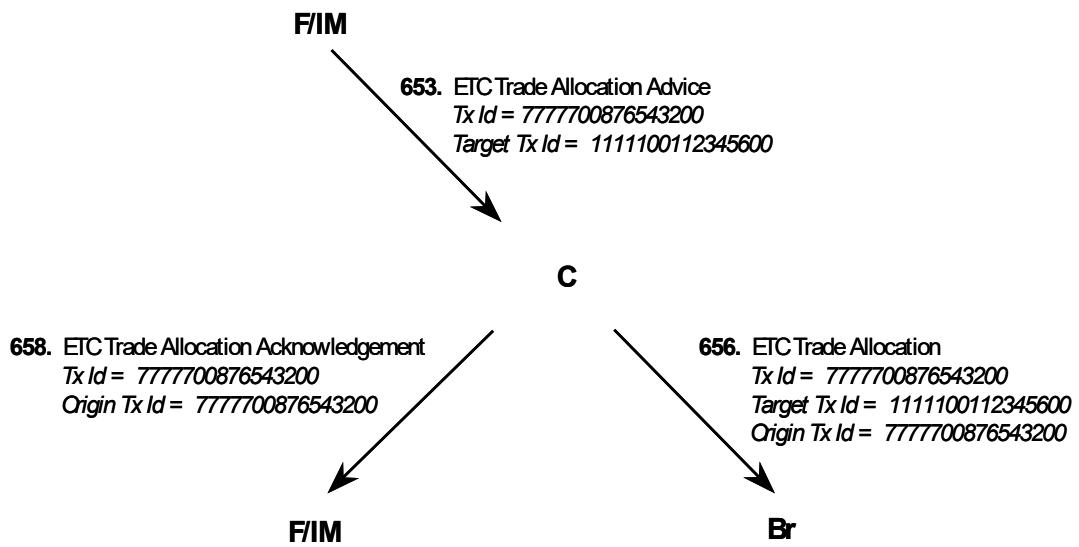


6.25 Type 25 (ETC Messages)

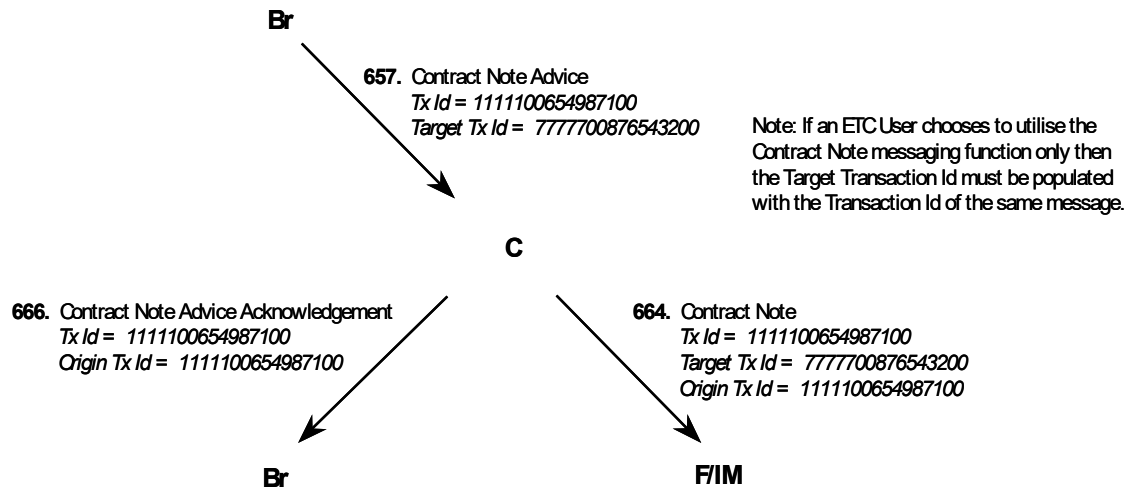
(a) Advising a Fund Investment Manager of a Block Trade



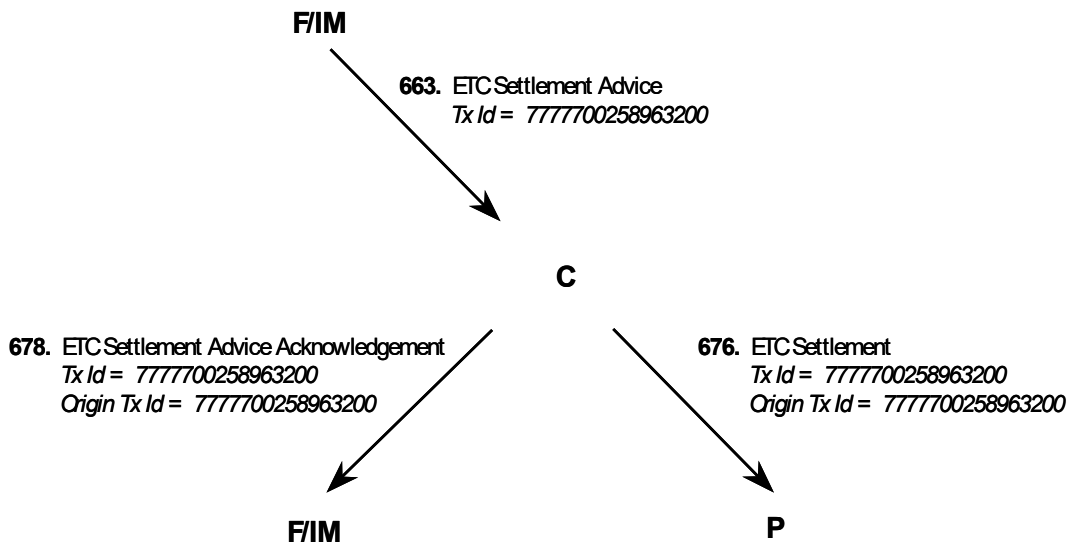
(b) Allocating a Block Trade



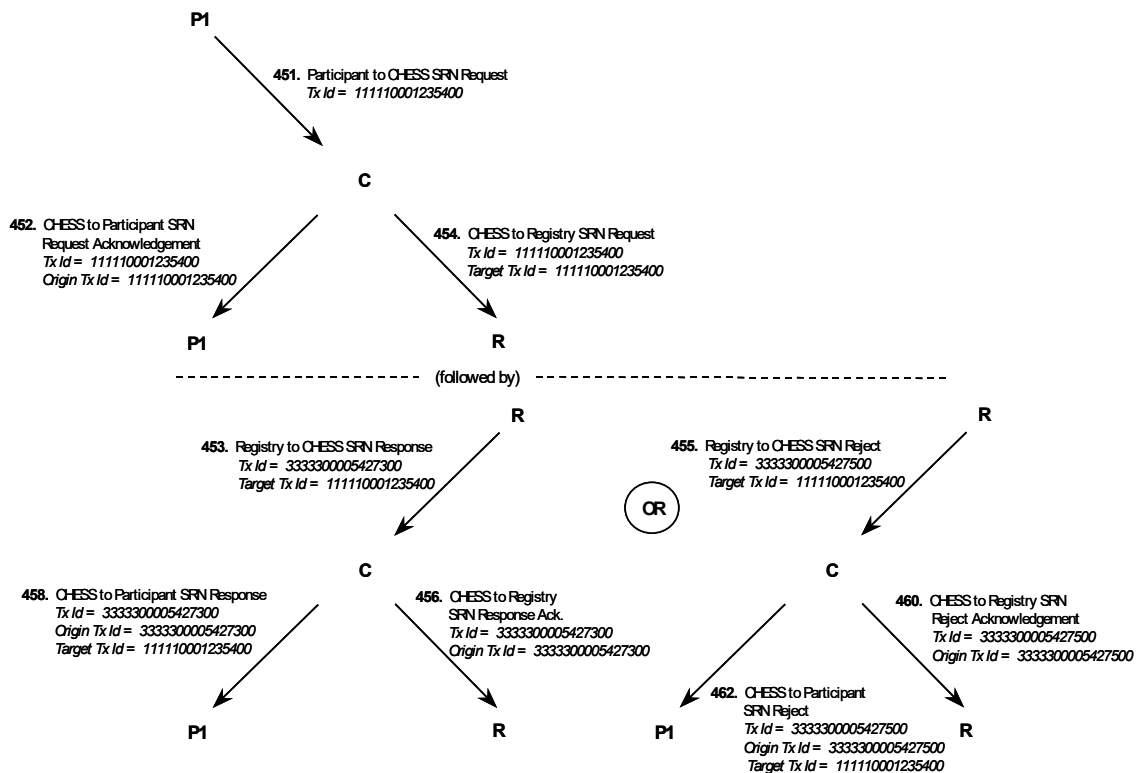
(c) Advising a Fund/Investment Manager of Contract Note details



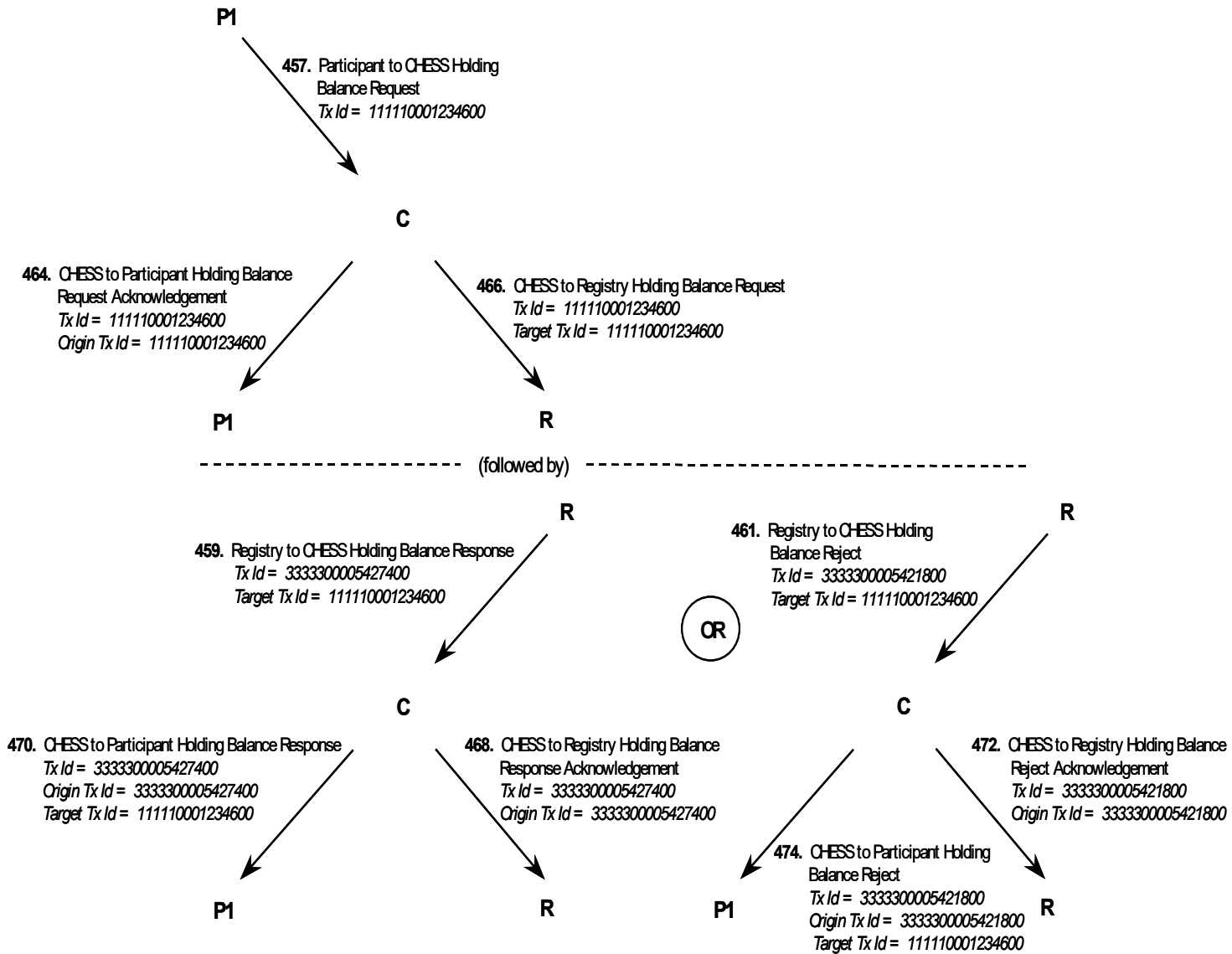
(d) Advising a Settlement Agent of Settlement Details



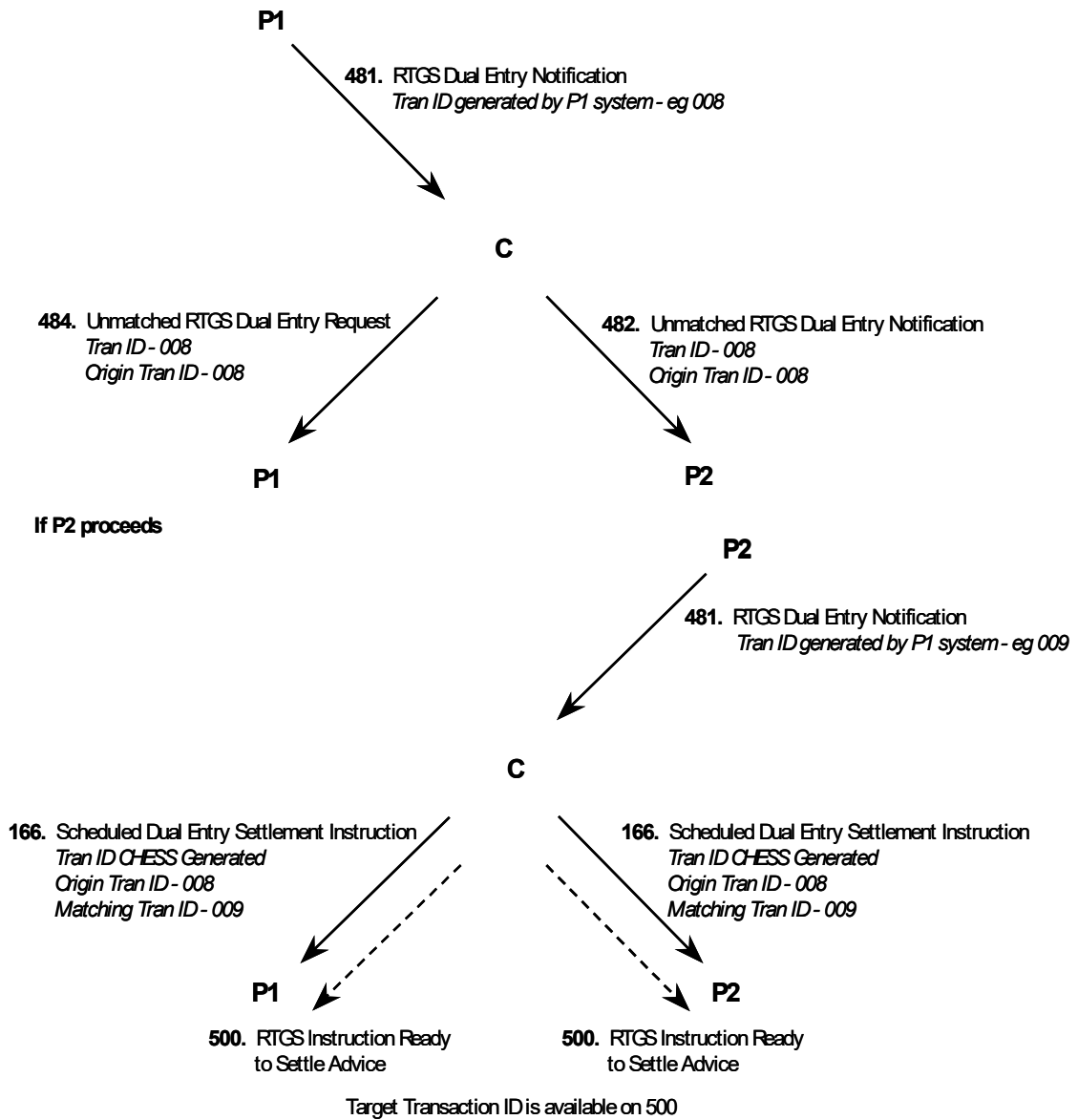
6.26. Type 26 (Issuer Sponsored SRN Enquiry)



6.27. Type 27 (Issuer Sponsored Holding Balance Enquiry)

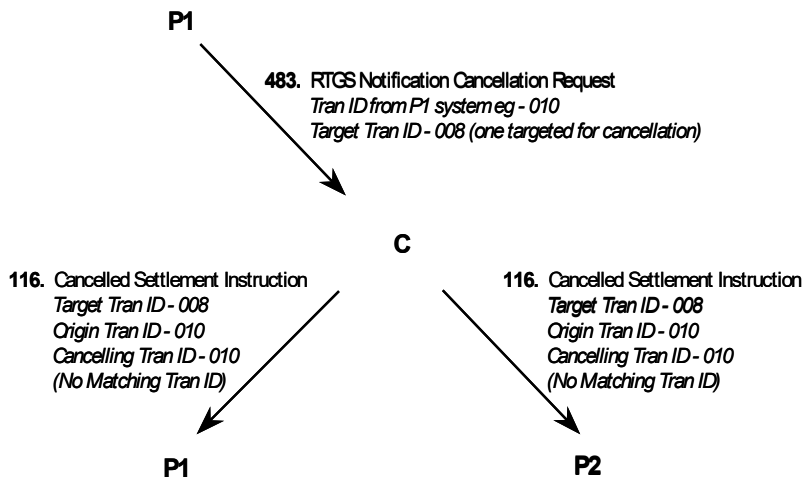


6.28. Type 28 (Creation of RTGS Settlement Instruction)

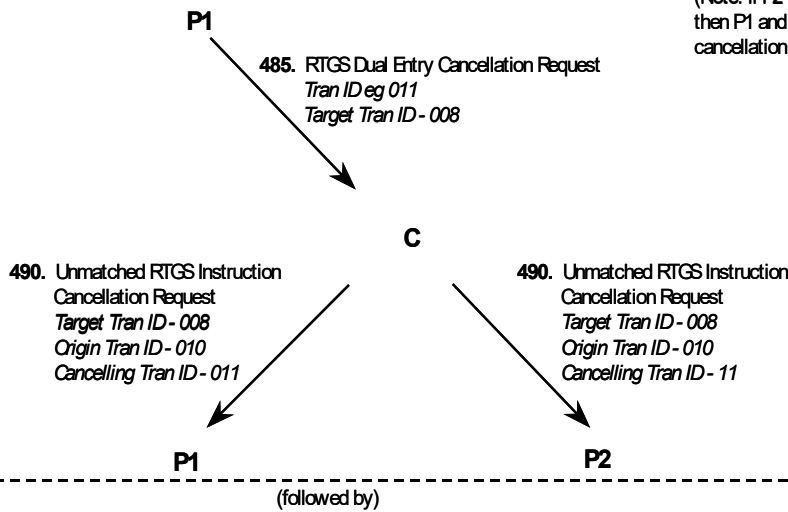


6.29. Type 29 (Cancellation of RTGS Settlement Instruction)

If P1 cancels before P2 has sent 481 'RTGS Dual Entry Notification' matching message



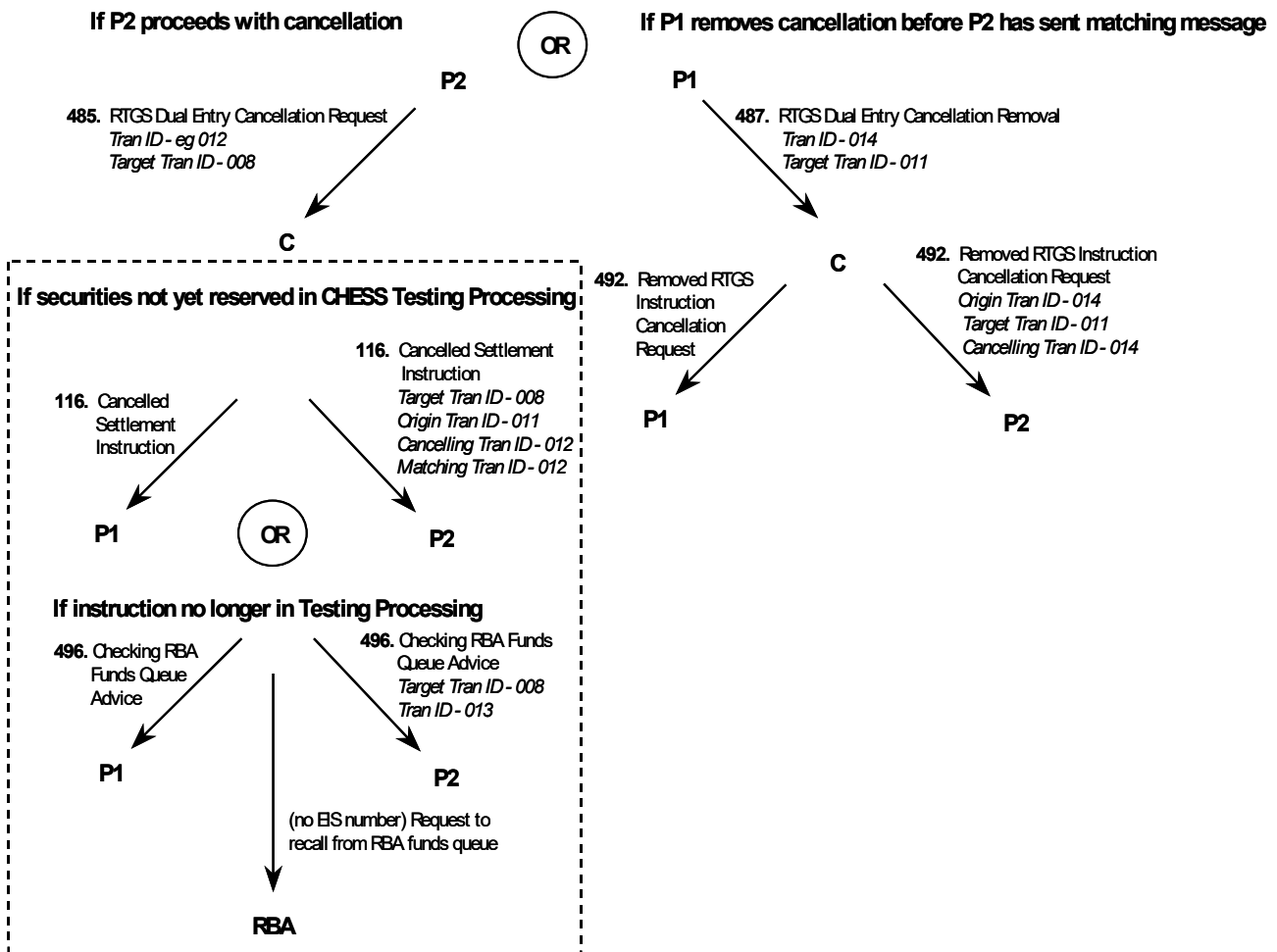
If either party decides to cancel after settlement instruction has been scheduled



(Note: If P2 wishes to initiate the cancellation, then P1 and P2 are interchanged in the following cancellation sets.)

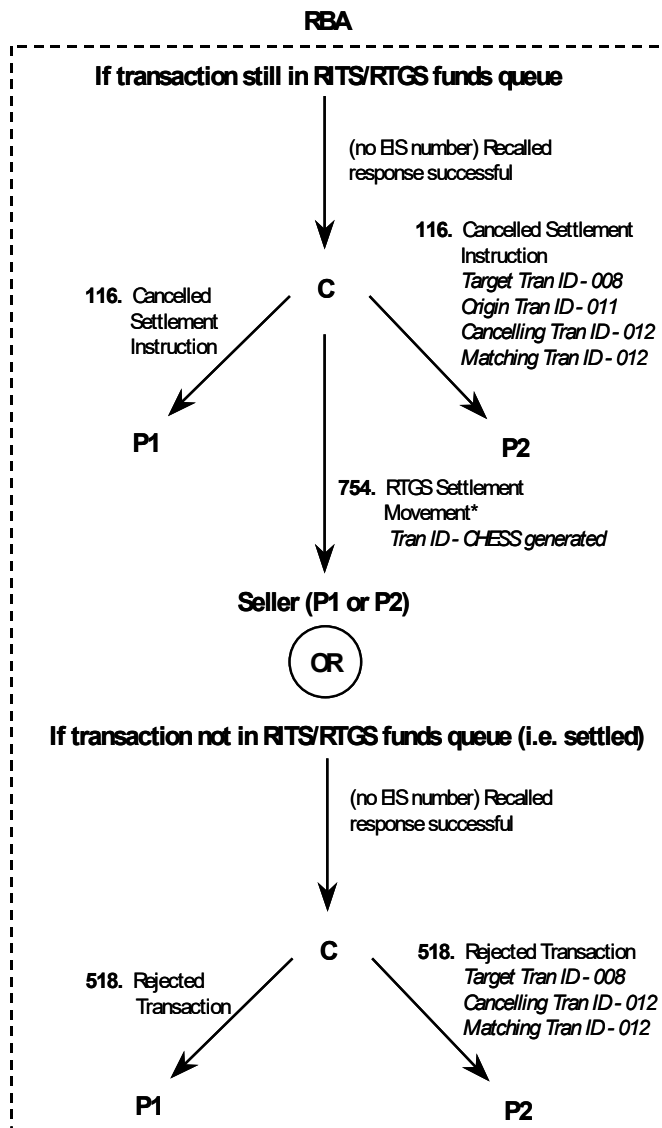
(Continued on the following page)

**6.29. Type 29 (Cancellation of RTGS Settlement Instruction)
(continued...)**



(Continued on the following page)

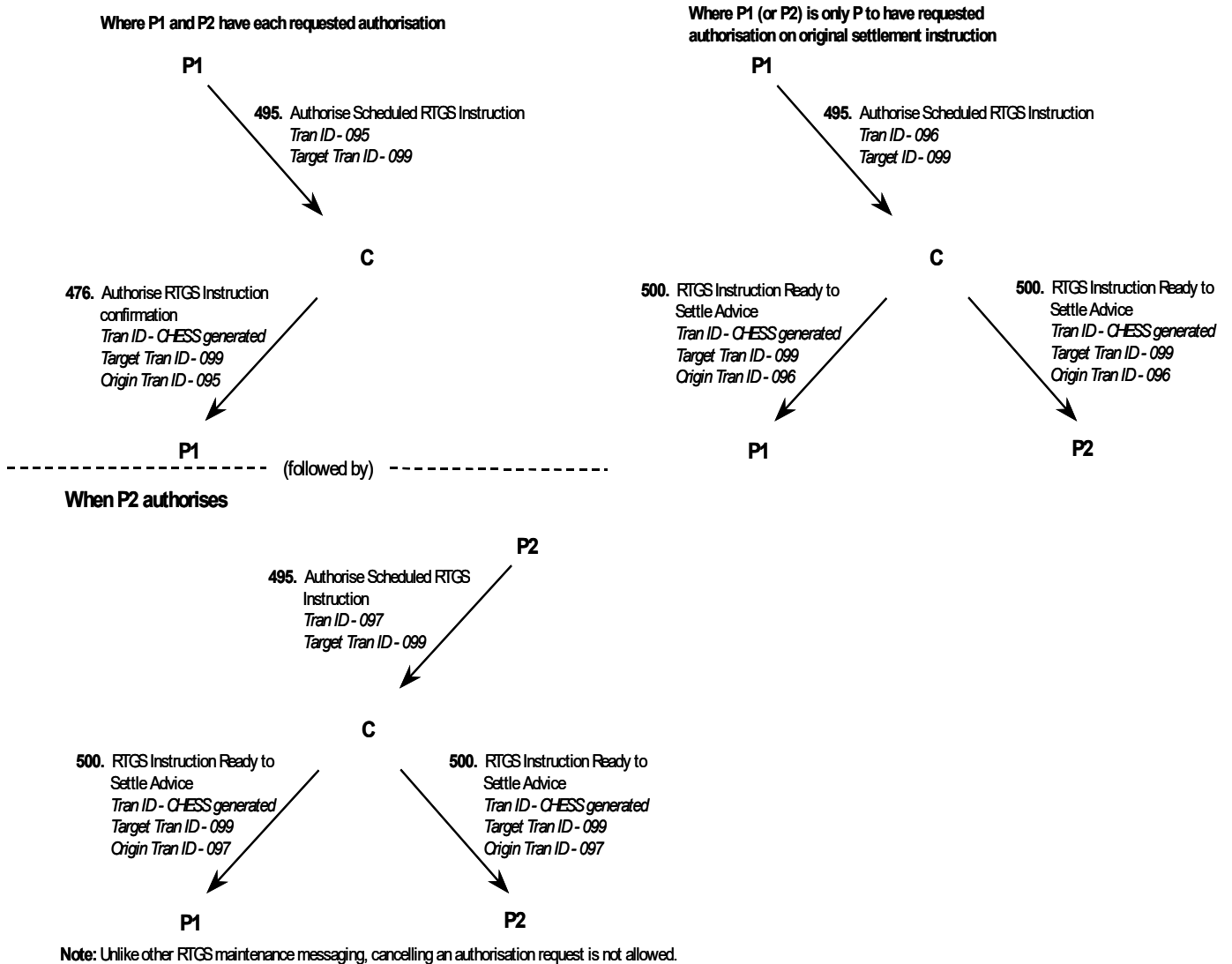
**6.29. Type 29 (Cancellation of RTGS Settlement Instruction)
(continued...)**



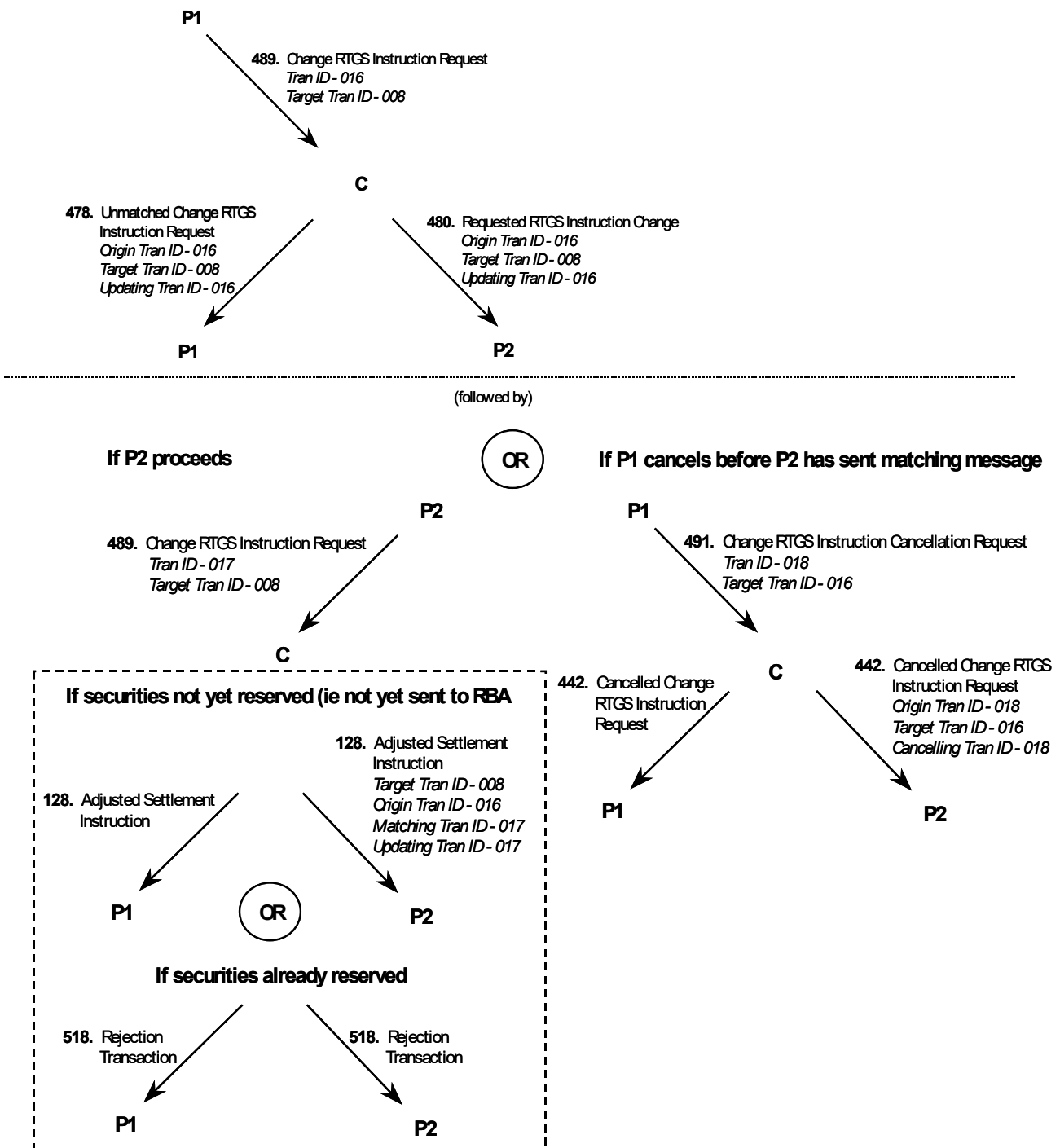
*Movement Type in the 754 message will indicate that the seller's securities have been released from reservation.

Note: Where a recall has been rejected because a transaction has settled, CHESS will have also sent the Participant an advice that settlement has been successfully completed.

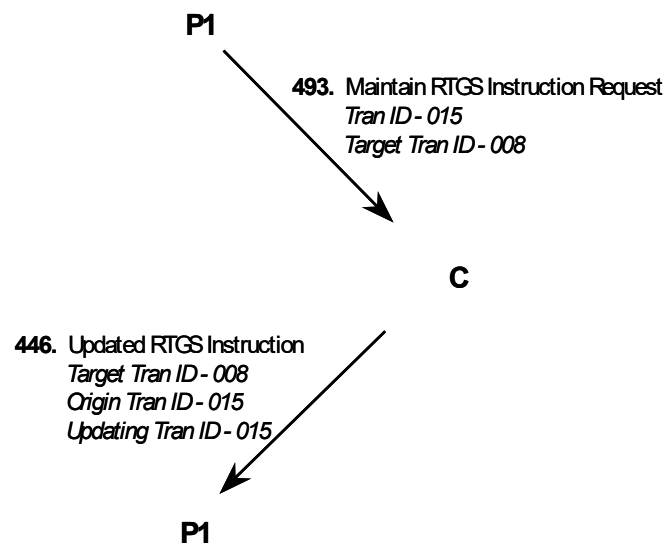
6.30. Type 30 (Authorization of RTGS Settlement Instruction)



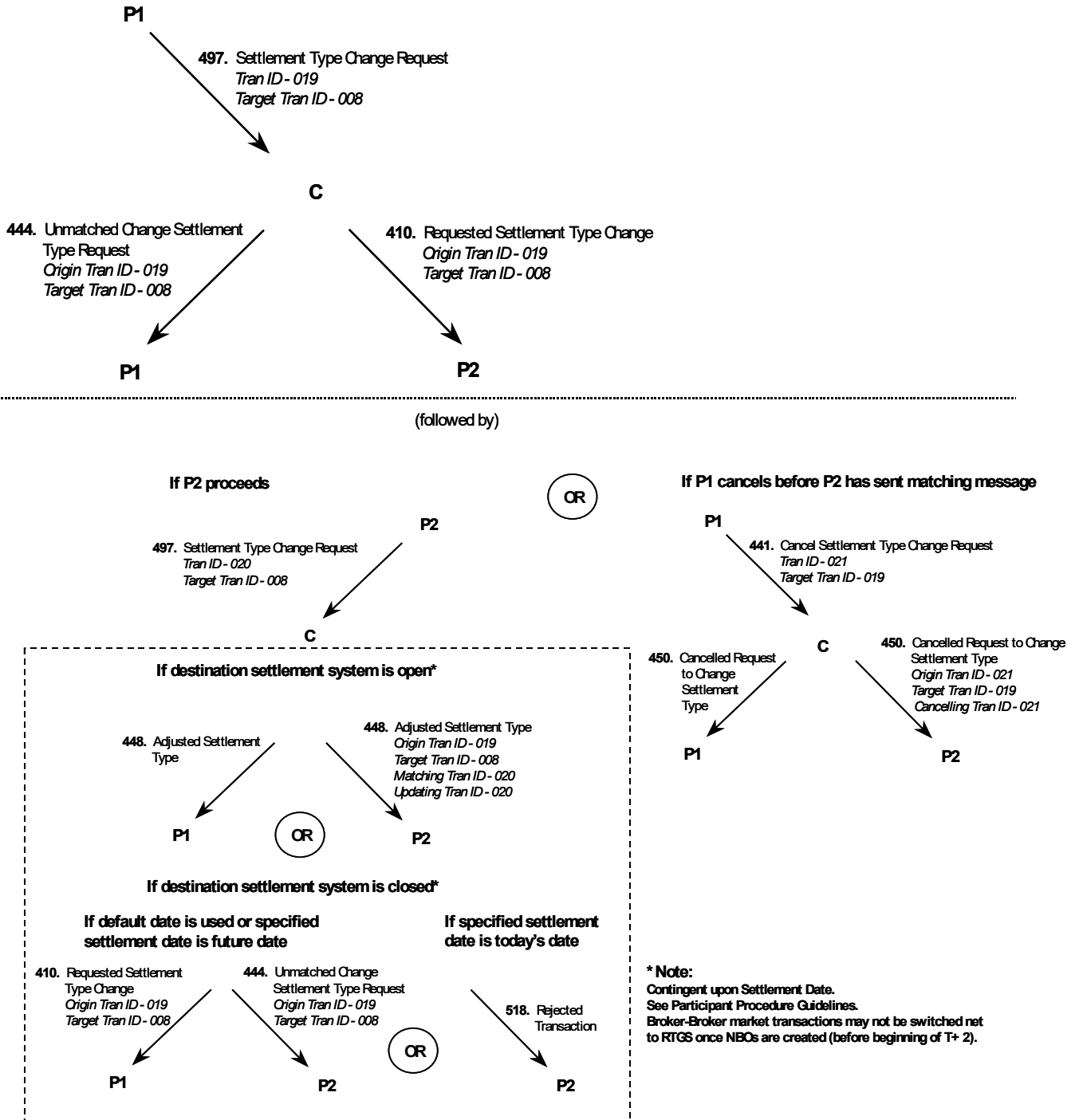
6.31. Type 31 (Dual Entry Change of RTGS Settlement Instruction)



6.32. Type 32 (Single Sided Change of RTGS Settlement Instruction)

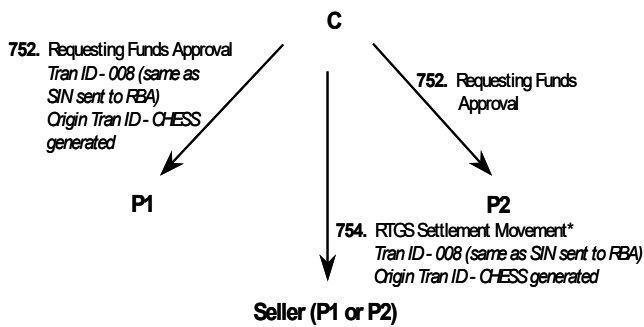


6.33. Type 33 (Change of Settlement Type - Dual Entry)



6.34. Type 34 (Settle RTGS Transaction)

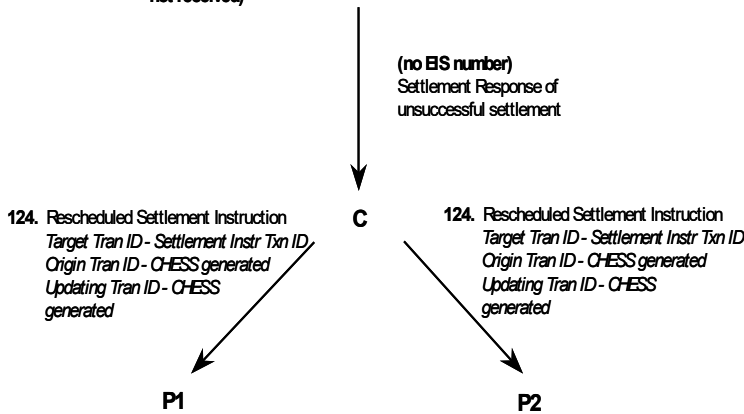
Initiating Settlement: Send CHES-Processed Transaction to RBA



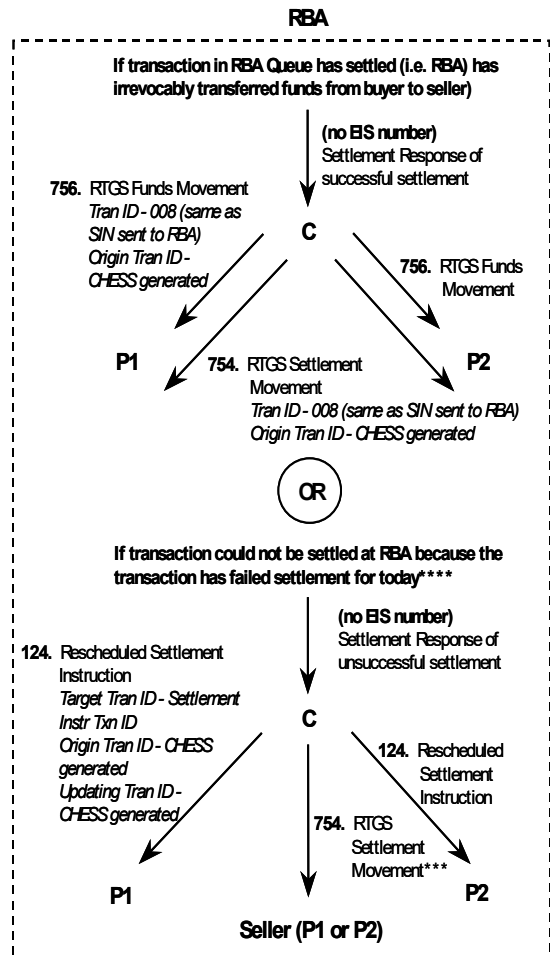
- * Sent to seller to indicate reservation of securities.
- ** Sent to buyer and seller to indicate transfer of securities.
- *** Sent to seller to indicate un-reservation of securities.
- **** If the transaction was not settled at RBA because of a system problem, CHES may send a 754 message to the seller re un-reservation of securities, and 'reinject' transaction into processing once problem is corrected.

Finalising Settlement: Fail in CHES

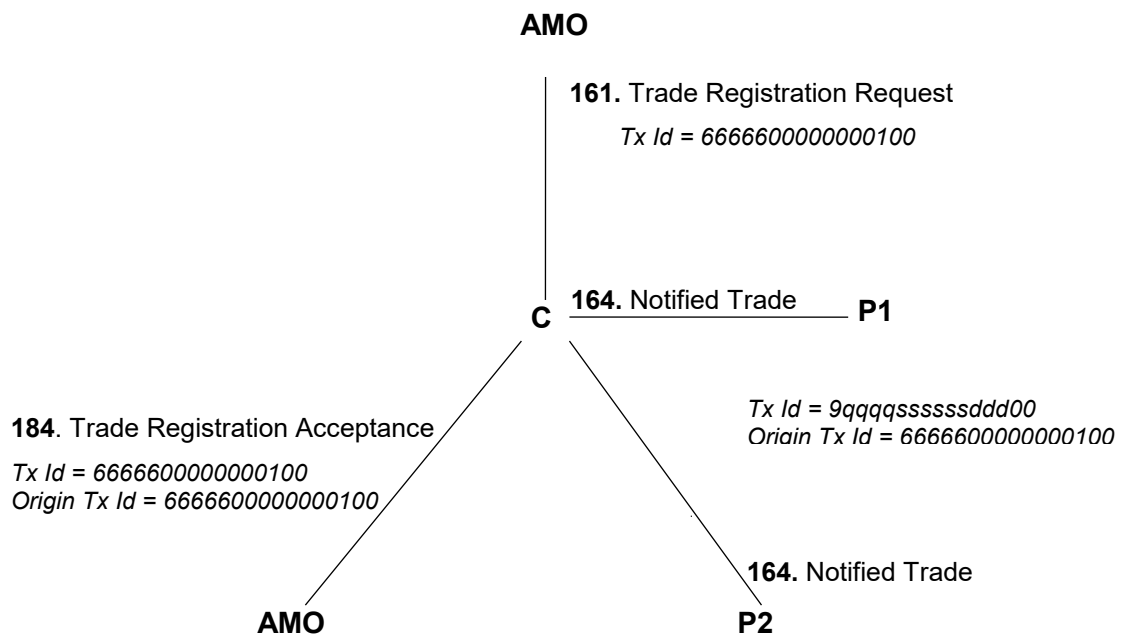
If the transaction has failed settlement at CHES level (funds/securities unavailability or required authorisation/s not received)



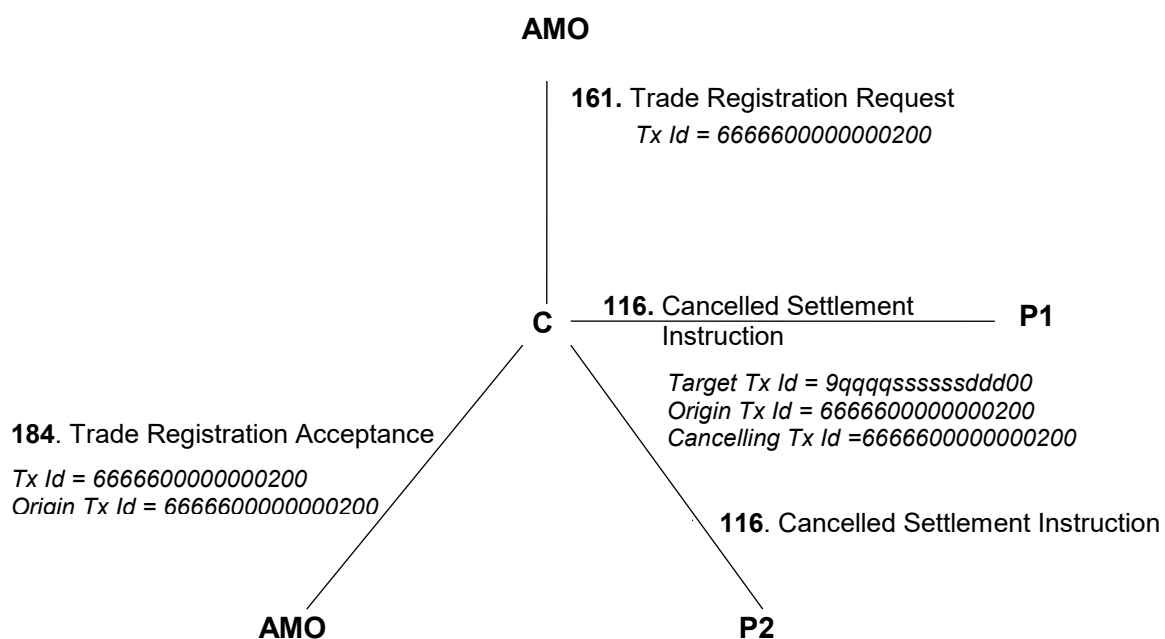
Finalising Settlement: Receive Advice from RBA and Complete Processing in CHES



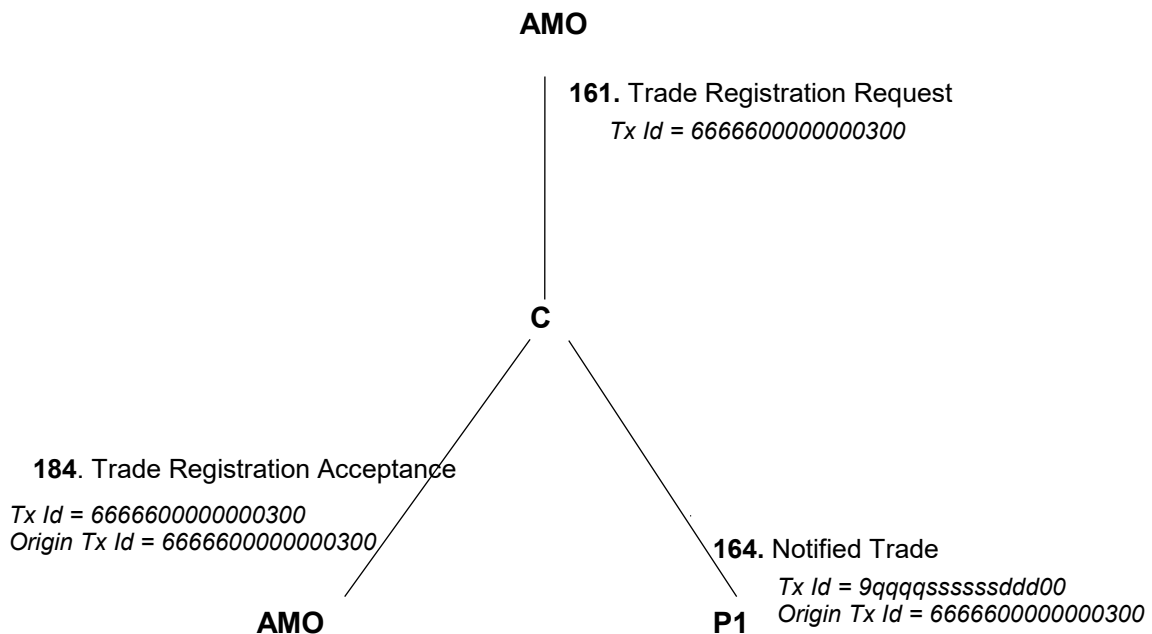
6.35. Type 35 (Trade Registration Request – Acceptance (Non-Crossing))



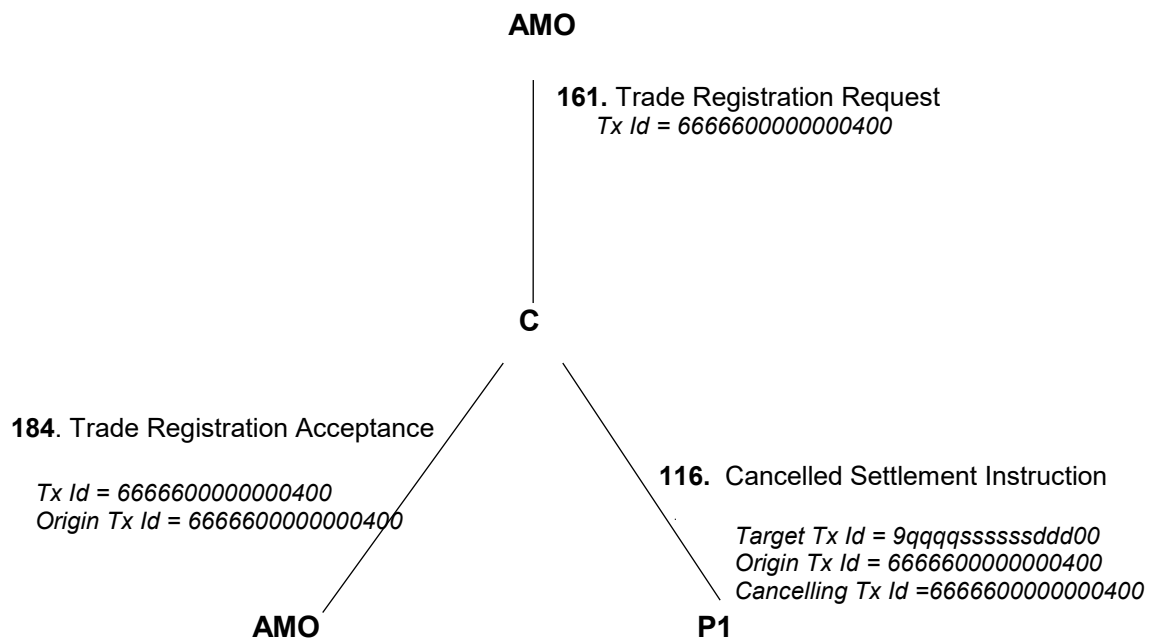
6.36. Type 36 (Trade Registration Request – Cancellation (Non-Crossing))



6.37. Type 37 (Trade Registration Request – Acceptance (Crossing1))



6.38. Type 38 (Trade Registration Request – Cancellation (Crossing2))

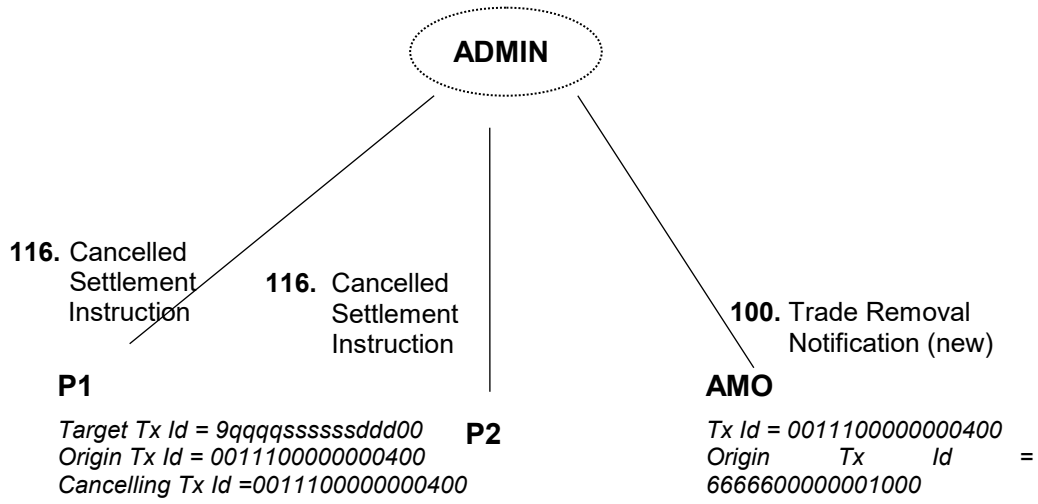


¹ Relates to same CP/SP as P1

² Relates to same CP/SP as P1

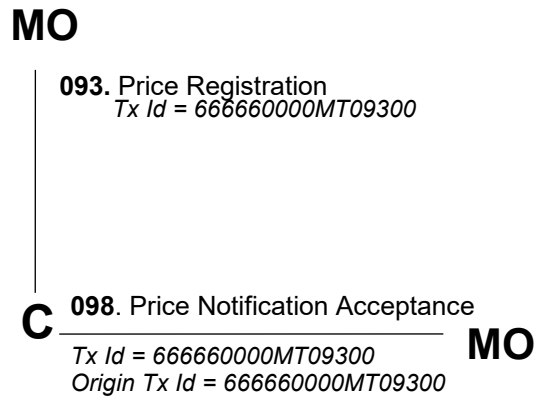
6.39 Type 39 (Trade Registration Request – Rejection)**AMO****161. Trade Registration Request***Tx Id = 666660000000500***C****518. Rejected Transaction***Tx Id = 666660000000500**Origin Tx Id = 666660000000500***AMO**

6.40. Type 40 (Trade Removal Notification)

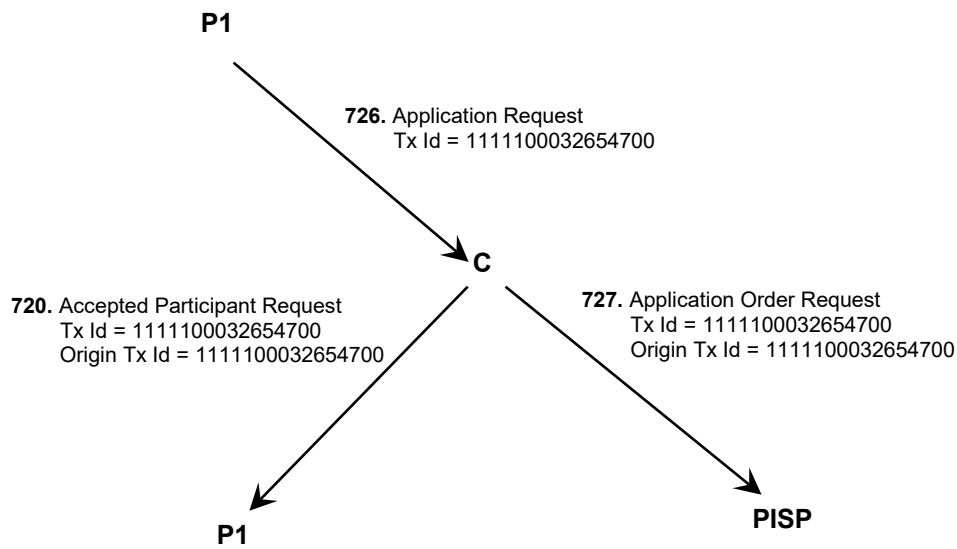


6.41. Type 41 (Price Notification Registration – Acceptance)**AMO****097. Price Notification Registration***Tx Id = 6666600000000600***C****098. Price Notification Acceptance***Tx Id = 6666600000000600**Origin Tx Id = 6666600000000600***AMO****6.42. Type 42 (Price Notification Registration – Rejection)****AMO****097. Price Registration Request***Tx Id = 6666600000000700***C****518. Rejected Transaction***Tx Id = 6666600000000700**Origin Tx Id = 6666600000000700***AMO**

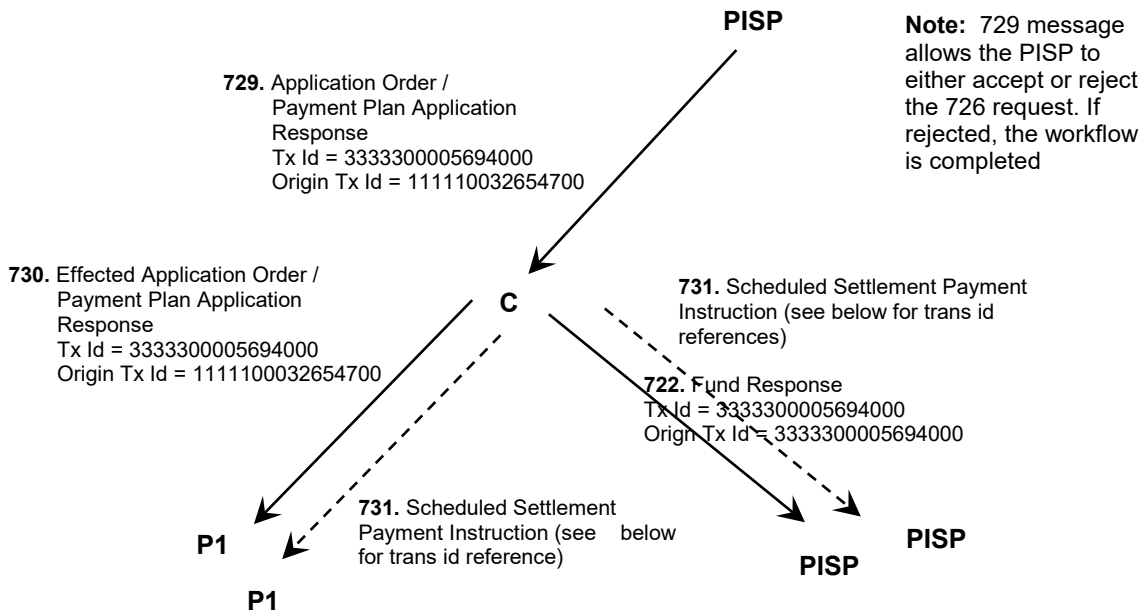
6.43. Type 43 (Price Registration)



6.44. Type 44 (Application for Fund Units)



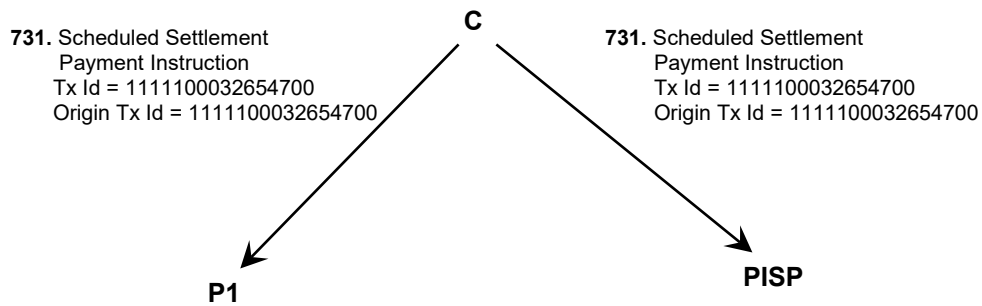
----- (optionally followed by) -----



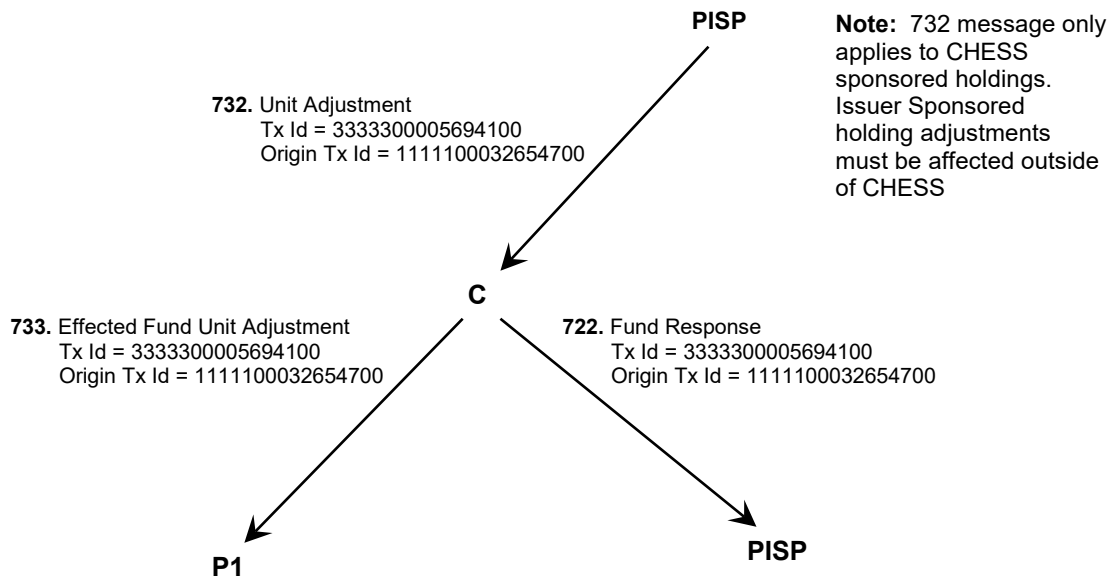
(Diagram is continued on next page)

(Diagram is continued from previous page)

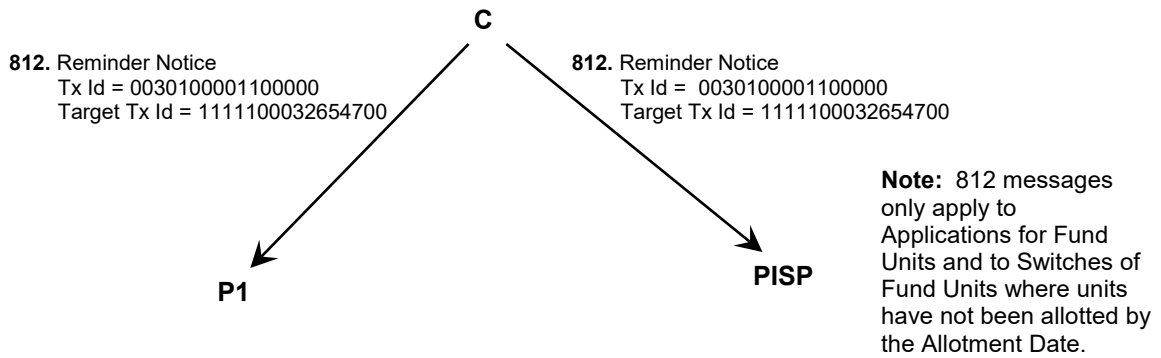
----- (followed by) -----



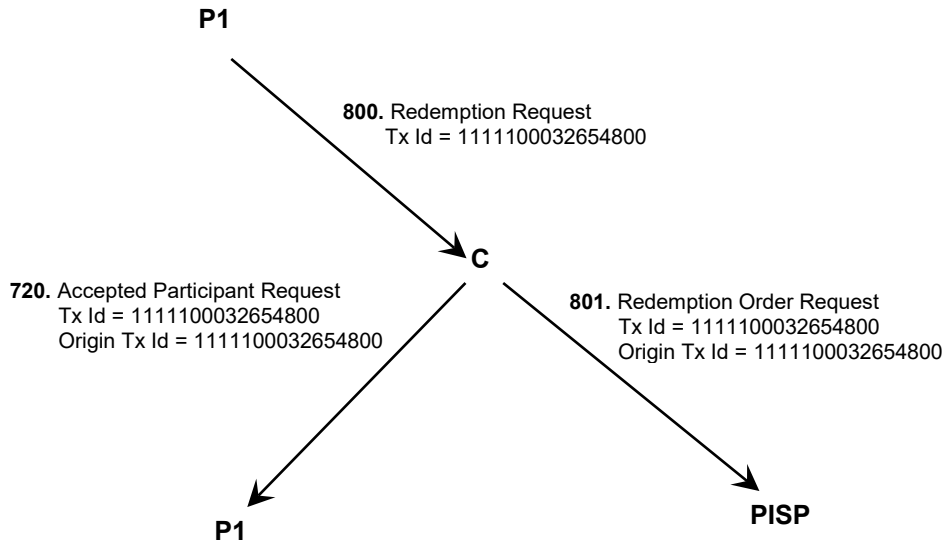
----- (optionally followed by) -----



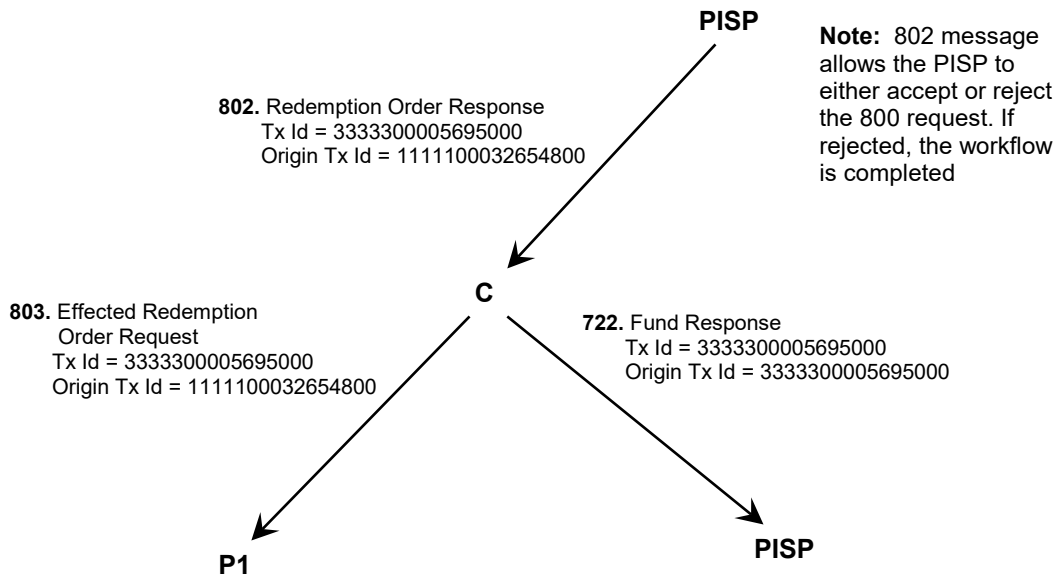
6.45. Type 45 (Fund Units Allotment Reminder)



6.46. Type 46 (Redemption of Fund Units)



----- (followed by) -----

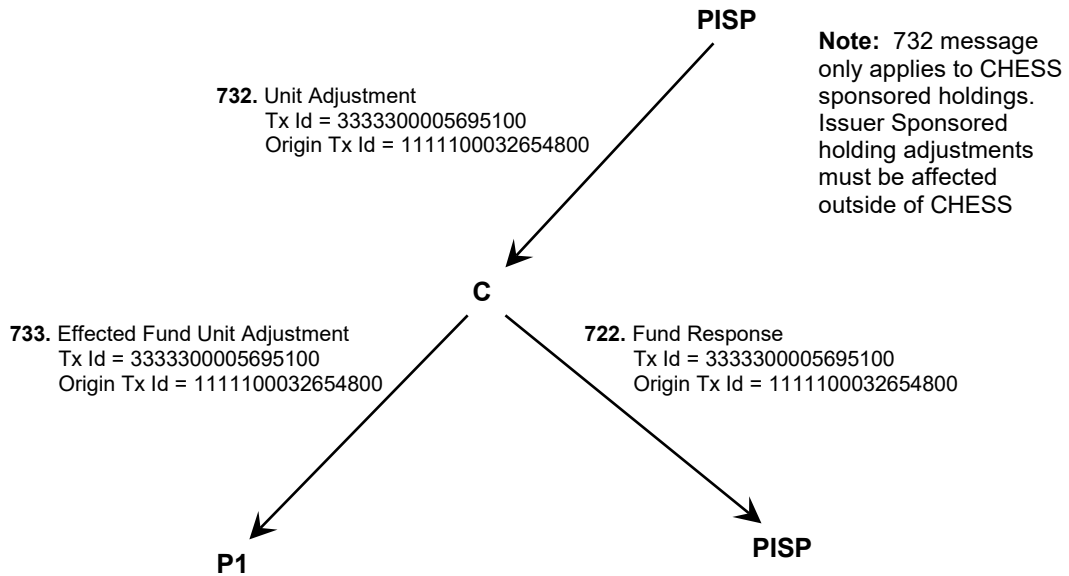


Note: 802 message allows the PISP to either accept or reject the 800 request. If rejected, the workflow is completed

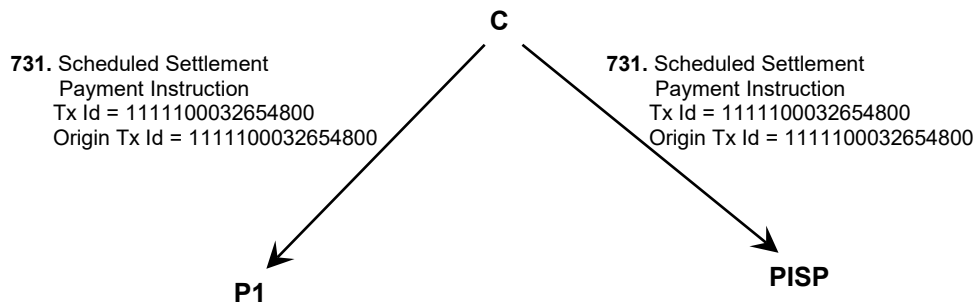
(Diagram is continued on next page)

(Diagram is continued from previous page)

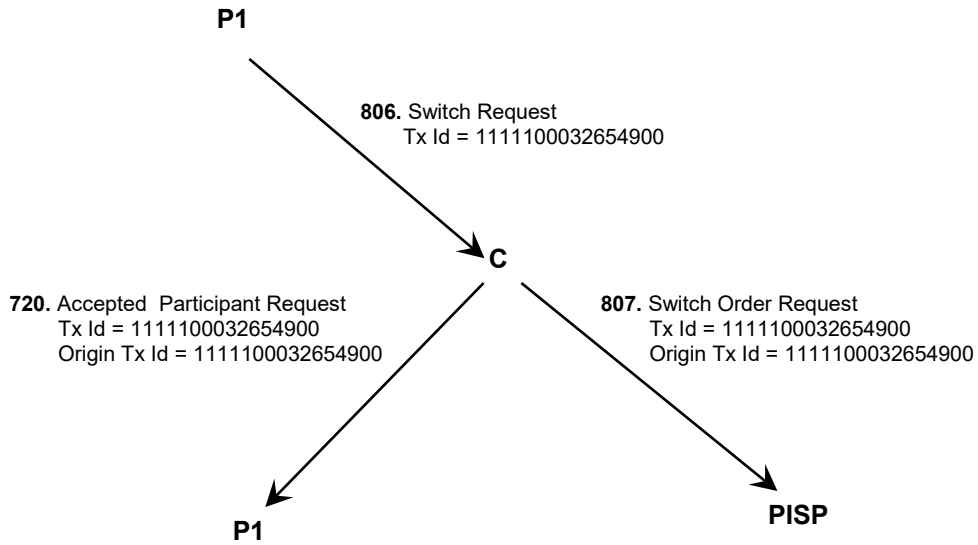
----- (optionally followed by) -----



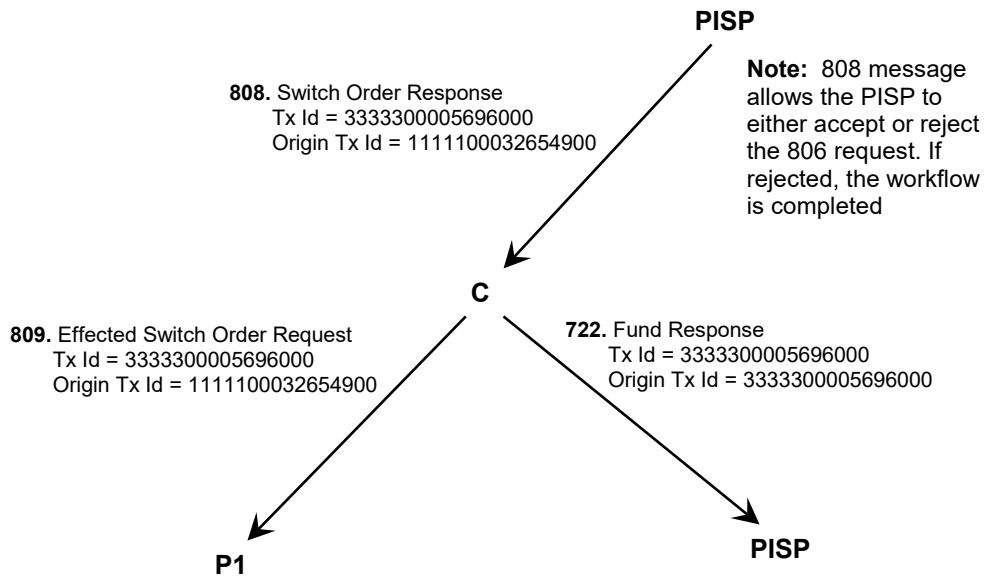
----- (followed) -----



6.47. Type 47 (Switch of Fund Units)



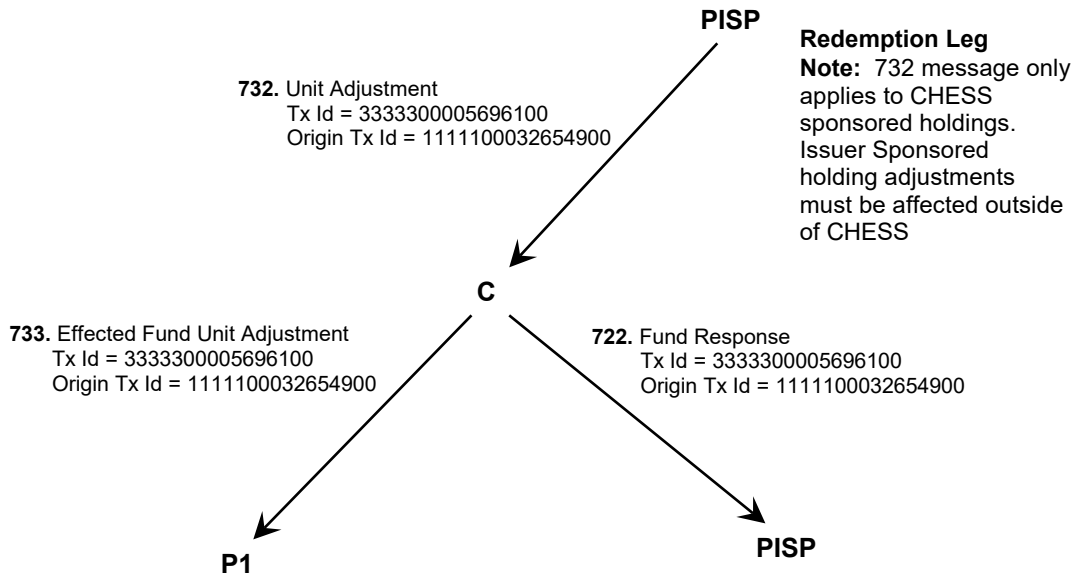
----- (followed by) -----



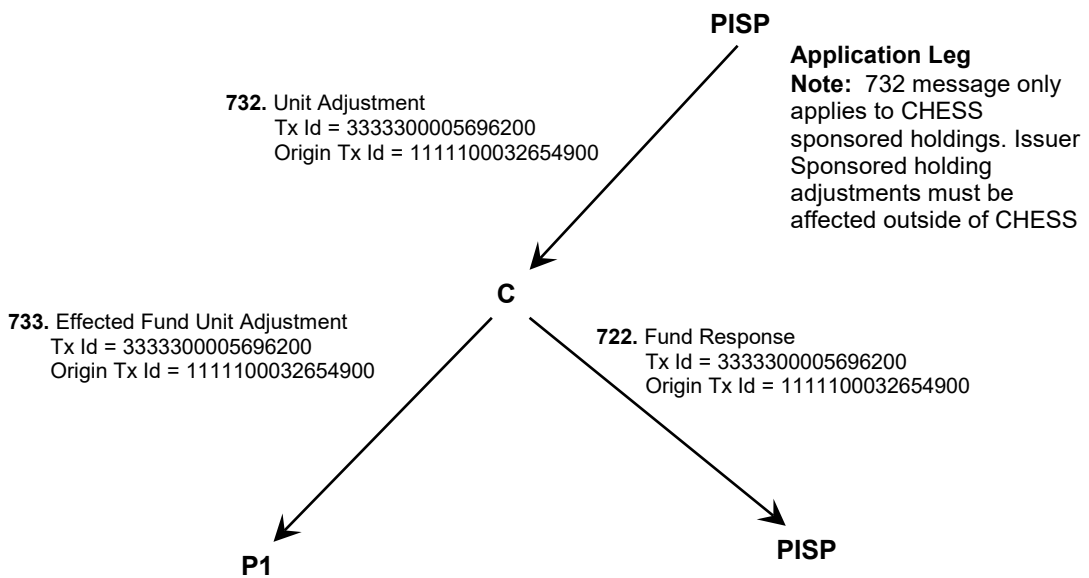
(Diagram is continued on next page)

(Diagram is continued from previous page)

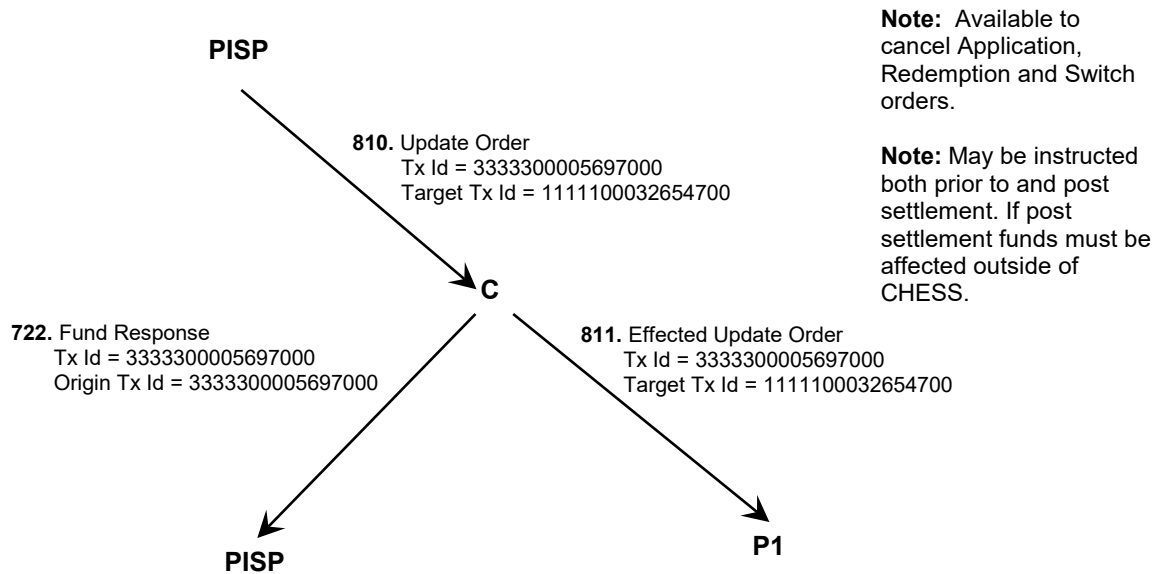
----- (optionally followed by) -----



----- (optionally followed by) -----



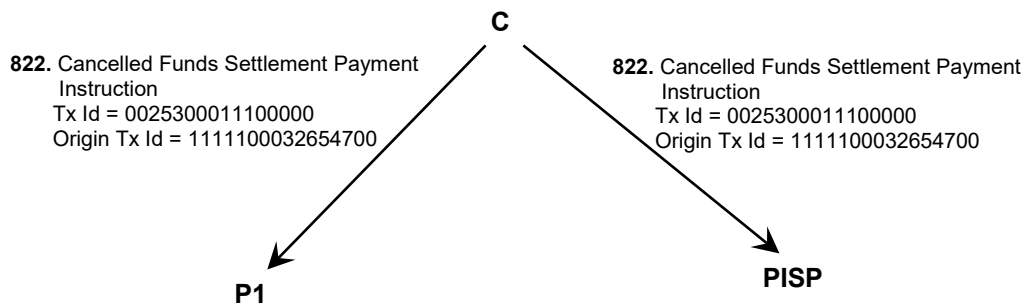
6.48. Type 48 (Fund Order Cancellation)



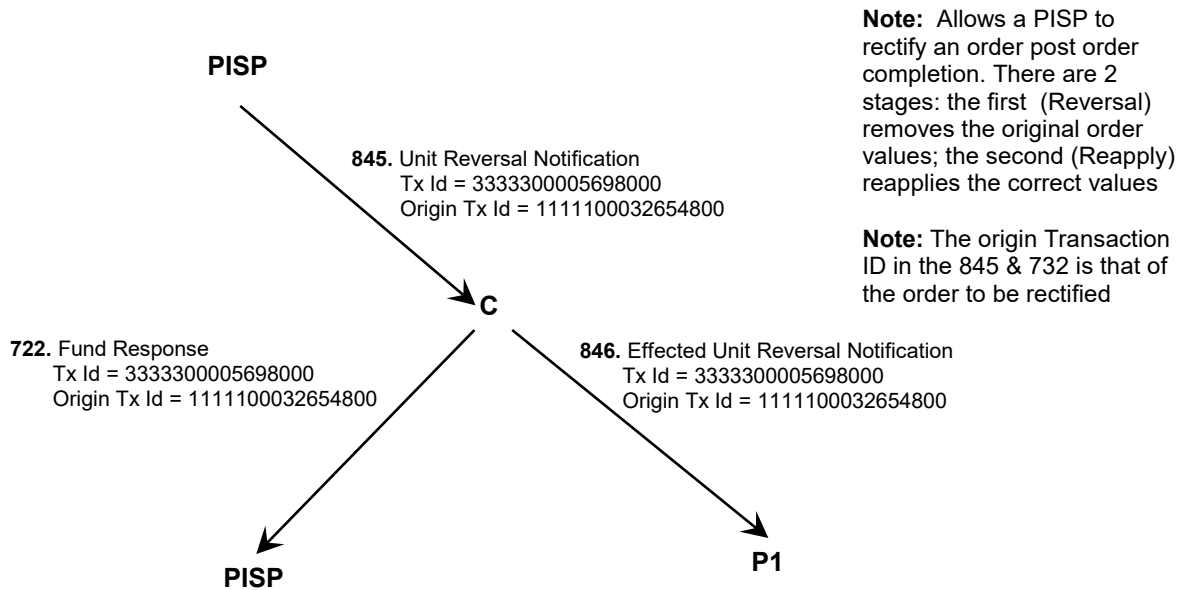
Note: Available to cancel Application, Redemption and Switch orders.

Note: May be instructed both prior to and post settlement. If post settlement funds must be affected outside of CHES.

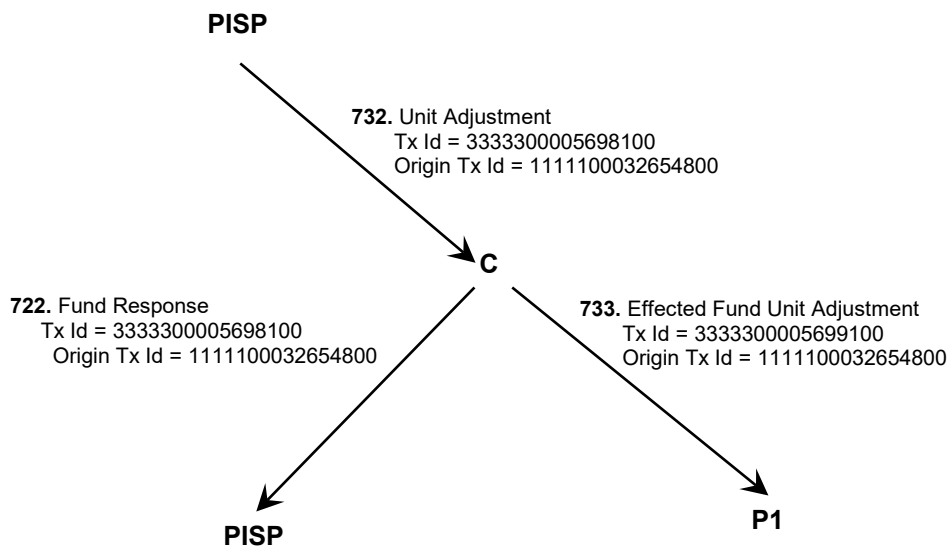
----- (followed by - where instruction is prior to settlement) -----



6.49. Type 49 (Order Reversal – Reversal)

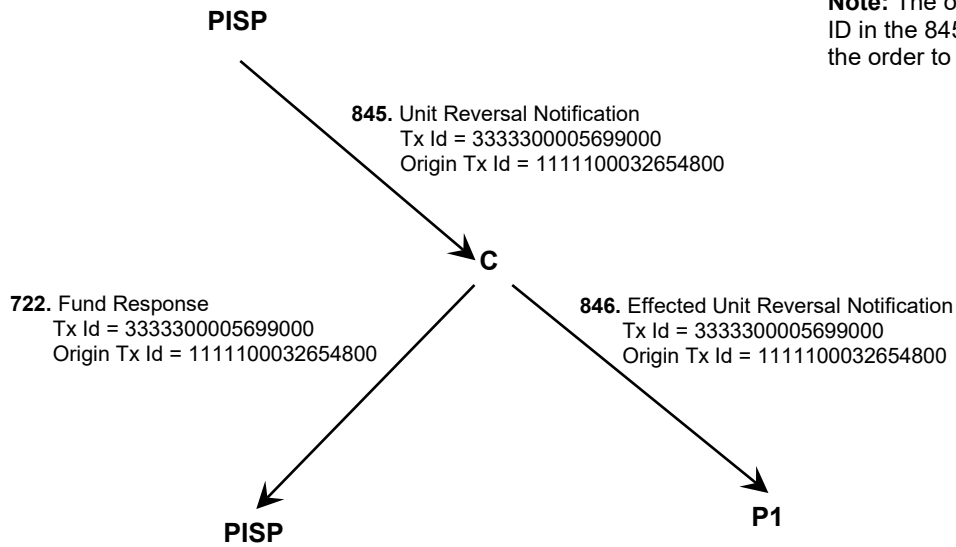


----- (followed by) -----

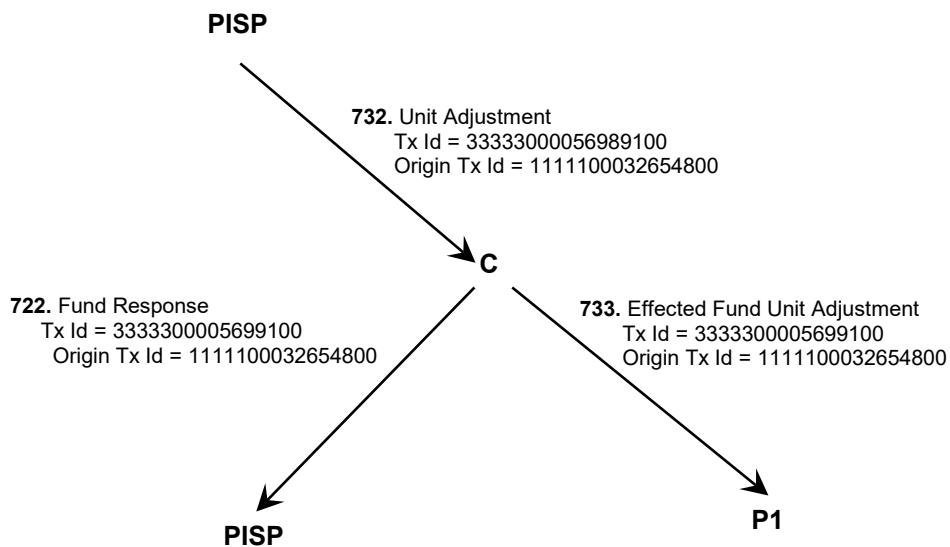


6.50. Type 50 (Order Reversal – Reapply)

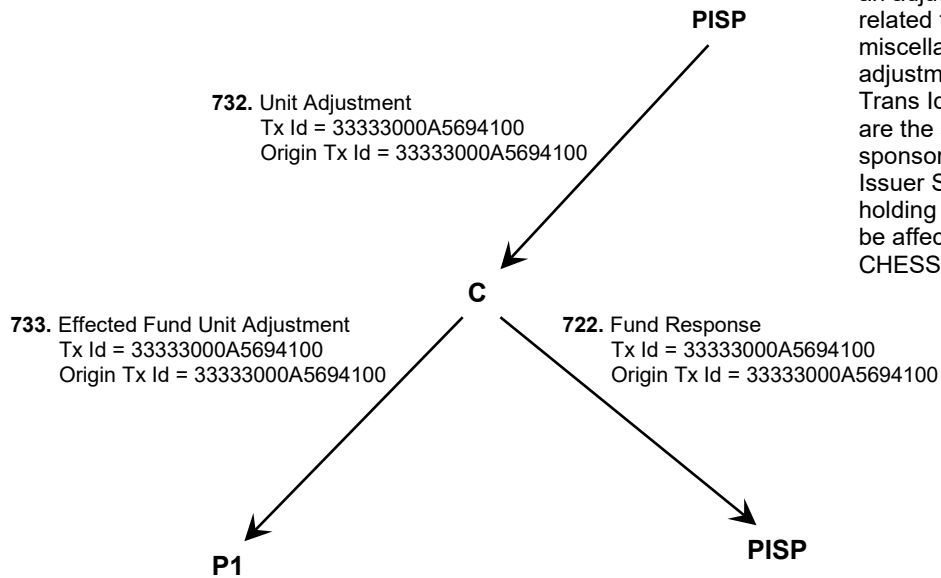
Note: The origin Transaction ID in the 845 & 732 is that of the order to be rectified



(followed by)



6.51. Type 51 (Unit Adjustment – Reason ADJ)



Note: Where the 732 message only applies to an adjustment not related to an order e.g. a miscellaneous adjustment the Origin Trans Id and Trans Id's are the same. CHES sponsored holdings. Issuer Sponsored holding adjustment must be affected outside of CHES

6.52. Type 52 (Annual Income Statement)

Note: Preceded by a Participant request, on behalf of the client (HIN) for an Annual Income Statement to be supplied by a Registry.

Note: The Origin Tx Id for all messages within the sets is the TX Id of the requesting **869.** Income Statement Request

- R** ----->

957. Registry Income Statement Part A
 Tx Id = 3333300005699000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

959. Registry Income Statement Part B
 Tx Id = 3333300005700000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

961. Registry Income Statement Part C AI
 Tx Id = 3333300005701000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

963. Registry Income Statement Part C CG
 Tx Id = 3333300005702000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

965. Registry Income Statement Part C FI
 Tx Id = 3333300005703000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

967. Registry Income Statement Part C NA
 Tx Id = 3333300005704000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

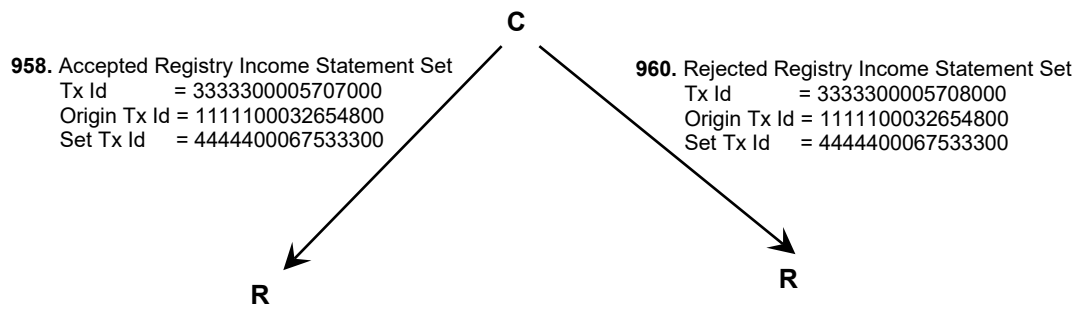
969. Registry Income Statement Part C OD
 Tx Id = 3333300005705000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300
- R** ----->

971. End Registry Income Statement Set
 Tx Id = 3333300005706000
 Origin Tx Id = 1111100032654800
 Set Tx Id = 4444400067533300

C

----- (followed by) -----

(Continued on the following page)



(Continued on the following page)

Note: Where accepted:

-----> **P**
962. Registry Income Statement Part A
Tx Id = 3333300005709000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
964. Registry Income Statement Part B
Tx Id = 3333300005710000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
966. Registry Income Statement Part C AI
Tx Id = 3333300005711000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
968. Registry Income Statement Part C CG
Tx Id = 3333300005712000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
970. Registry Income Statement Part C FI
Tx Id = 3333300005713000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
972. Registry Income Statement Part C NA
Tx Id = 3333300005714000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
974. Registry Income Statement Part C OD
Tx Id = 3333300005715000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

-----> **P**
976. End Registry Income Statement Set
Tx Id = 3333300005716000
Origin Tx Id = 1111100032654800
Set Tx Id = 5555500067533300

C

SECTION 7. DATA REPRESENTATION

7.1 Data Representation Principles

Data representation defines the way that message fields are described within CHES. It covers the format of fields (numeric, etc.) and the methods of justification and filling the various fields. The data representation standard adopted here is based on that of similar communications standards.

7.2 Field Presentation

Non-binary data is represented by ASCII characters in accordance with the following table.

Class	Description	Format
Alphabetic	Alphabetic characters (A-Z)	1 symbol/byte
Numeric	Numeric characters (0, 1...9)	1 symbol/byte
Alphanumeric	Alphabetic and Numeric characters	1 symbol/byte
Character	Alphabetic, Numeric and Special Characters (.,?% etc.). i.e. > 31 and < 127 decimal in the ASCII character set.	1 symbol/byte
Signed Numeric (or ±Numeric)	Character '+' or '-' preceding the numeric characters (0,1...9)	1 symbol/byte

Bitmapped fields are described as streams of bits.

In general, all fields are defined by their class and length.

Unless otherwise indicated, all decimal points are implied. The number of decimal places is indicated explicitly in the definition of a field.

Note that although five types of data are described above, only the 'character', 'numeric' and 'signed numeric' types are used throughout section 4 and 8 of the specification. Where more stringent definition is required (e.g., some special characters are not allowed within a character field), this is given in the definition for the field in section 8.

Examples:

- A field describing the ISIN code is a **character** field and has a size of **12** bytes.
- A field containing the holding balance for a security in CHES is a **numeric** field of **11** bytes.
- A field describing an amount may have a **total** length of **14** characters with two decimal places and an implied decimal point. It would be described as a **numeric** field of **14 bytes** with **2 decimal** places (included in the 14).

- Another type of field describing an amount to settle a trade has a **total** length of **15** characters with a sign, two decimal places and an implied decimal point. It would be described as a **signed numeric** field of **15 bytes** with **2 decimal** places (i.e., the sign character takes one position, the dollar amount takes the next 12 positions, and the cents occupy the remaining 2 positions of the total of 15). Note that in Section 4 these fields are shown as **15 ±Numeric, 2 decimal**.

Both bit and byte numbering begin at one.

7.3 Justification, Filling and Order

Each field is justified and filled in accordance with the following rules:

- All fields start on a byte boundary and are filled to a byte boundary.
- Numeric fields are right justified and filled with leading numeric zeros.
- Alphabetic and alphanumeric fields are left justified and filled with trailing spaces.
- Bitmap fields, described as bit streams, are a multiple of 8 bits and have no filler bits.

The order of transmission is leftmost bit or byte first.

For greater discussion of bitmap representation see section 3.

For example, a bitmap defined as 32 bits represented by the hexadecimal number X'ABC3FF12' would be represented in bit representation as

"	1010	1011	1100	0011	1111	1111	0001	0010
	A	B	C	3	F	F	1	2

The field would be transmitted as the leftmost bit first and then through to the right most bit.

A name field defined as 10 character containing the name "SMITH" would be transmitted in order as SMITH^^^^ where ^ represents a space.

7.4 Character Data

Alphabetic, numeric and special symbols follow Australian Standard 1776 (equivalent to the ANSI standard) with the leftmost bit of each byte set to zero.