

Matching Best Practice

2012 Working Document

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DISCLAIMER

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Document History

Version #	Change Date	Description of Change	Page	Author
1.0	05/20/2011	Creation of draft Matching Best Practice		Genevy Dimitrion
2.0	06/01/2011	Updates provided from J. Cronin	Multiple	Genevy Dimitrion
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1.0 Background

The post-execution trade enrichment space has finally begun to receive the attention that we Operations folks always knew it deserved.

No longer is the front-, middle- and back-offices considered separate when the Investment cycle is discussed.

Increasingly, CIOs and trading staff are aware of all downstream processes.

Several factors are influencing this:

- The volume of cross border trading continues to grow, retail investors are getting exposure as well
- Settlement cycles are shortening
- Penalties for exceptions and failed trades are high in many markets
- The transaction cost of all of the components of the trade life cycle are being considered from a cumulative view
- More 'Frontier' markets have been added to the repertoire of execution venues
- Market participants exist from across all time zones
- Closer scrutiny of operational performance by clients and regulators

It has become generally accepted that pre-settlement trade matching between counterparts has positive downstream effects.

There are no formal business practices for matching between various constituents today. The process is often governed by SLAs implemented on a firm to firm basis, often driven by Investment Managers.

A great deal of investment has occurred, especially in the Equity space over the last 10 years, leading to a high degree of automation.

This has been bolstered by a convergence of data standards, making connectivity between the different stages easier to achieve.

But without a Best Practice for Trade Matching, these positive initiatives may not be enough.

ISITC believes that if all industry constituent's work together to develop a best practice for trade matching continued growth can be achieved without an increase in trade exceptions. This has always been the goal of ISITC – to facilitate dialogue within the industry and push our market forward in developing standards that will benefit all participants.



The goal of this document is to highlight to ISITC member firms the high level business process flows. The end result is to showcase that options do exist within the industry around matching which include Central Matching and Local/Bilateral Matching. Firms can use this document as a reference tool in the design and implementation of their own internal matching needs. It is also strongly recommended that matching occur on Trade Date.

1.1 Scope

The scope of this document covers the following:

- Approaches local / bilateral matching and central matching
- Financial instrument types/asset classes/product types
- Markets Our intent is to define best practices that can be applied across all markets globally
- Process flow starting point: notice of execution; ending point: agreement between counterparties on trade details at the allocation level, including settlement instructions
- Message Syntax in accordance with the Investment Roadmap

Processes deemed out of scope include:

- Trade order/Pre-Trade (Although included in the workflow diagrams for informational purposes)
- Settlement

*As part of the creation of this document discussions were held around matching a block/allocation or allocation level only and it was determined that both options are viable. We do want to emphasize that the preferred would be block/allocation level matching due to the inherent risks related to Fixed Income transactions which are high valued transactions. The process to aggregate the underlying allocations into a block at the Broker is extremely manual and does not guarantee all transactions have been captured.



1.2 Definitions

Central Matching – Identified as an automated approach to process the details that must be agreed to between the two parties in a trade. Instead of communicating with each other in a conversational mode and waiting for a reply, the Central Match model allows each party to the trade to specify their own version of the trade details whenever they are ready. It is not necessary that the buy side and sell side take turns. Each can submit their information without regard to whether or not the counterparty has submitted any information about the trade. The Central Match system collects information from both sides, and compares the pertinent details to see if the two parties are in agreement.

Local/Bilateral Matching – Is defined as when the buy side and sell side bilaterally agree to communicate transaction details to/from each other and perform the matching internally.

FIX - The Financial Information eXchange (FIX) Protocol is a messaging standard developed specifically for the real-time electronic exchange of securities transactions. FIX is a public-domain specification owned and maintained by FIX Protocol, Ltd.

SWIFT - The Society for Worldwide Interbank Financial Telecommunication, a member-owned cooperative through which the financial world conducts its business operations with speed, certainty and confidence. More than 9,000 banking organizations, securities institutions and corporate customers in 209 countries trust us every day to exchange millions of standardized financial messages.

ISO - International Organization for Standardization is the world's largest developer and publisher of International Standards. ISO is a network of the national standards institutes of 162 countries, one member per country, with a Central Secretariat in Geneva, Switzerland, that coordinates the system.

Omgeo - Omgeo was formed in 2001 as a wholly owned, global joint venture between the Depository Trust & Clearing Corporation (DTCC) and Thomson Reuters. Omgeo automates trade lifecycle events, including allocation, confirmation/affirmation, settlement notification, enrichment, operational analytics and counterparty risk management between trade counterparties.



1.3 Actors and Roles

There are 3 distinct roles involved in the matching process.

- Buy side A firm concerned with buying assets or securities.
- Sell side A firm that sells investment services to asset management firms, typically referred to as the buy side, or corporate entities.
- Matching Utility A platform used by both the buy side and sell side firms to match transactions.

There are multiple actors involved in the process.

Buy side	Sell side	Matching Utility	
Investment Manager			
Prime Broker	Broker Dealer	Central Matching	
Outsourcer		Utility	

1.4 Product Coverage

ISITC Classification Code Description Classification Code							
Equities							
CS	Common Stock						
ETF	Exchange Traded Fund						
MF	Mutual Fund						
PS	Preferred Stock						
RTS	Rights						
WAR	Warrant						
	Fixed Income and Debt						
ВА	Bankers Acceptance						
СВО	Collateralized Bond Obligation						
CD	Certificate of Deposit						
CDO	Collateralized Debt Obligation						
CLO	Collateralized Loan Obligation						
СМО	Collateralized Mort. Obl. (incl. sinking funds)						
CORP	Corporate Bond						
СР	Commercial Paper						
СРР	Corporate Private Placement						
DISC	Discount Note						
FAD	Federal Agency Discount						
FRN	Floating Rate Note						
GOVT	Treasuries and Agency Debentures						



IET	Mortgage IO-ette
MPP	Mortgage – Private Placement
MUNI	Municipal Bond
SL	Student Loan Marketing Association
STF	Short Term Investment Fund
STRP	Treasury Strips
TIPS	Treasury inflation Protected Security
TN	Treasury Note
TRPS	Trust Preferred Stock
UBWW	Unitized Bonds with Warrants
UNBD	Unitized Bonds
USTB	US Treasury Bill
VRDN	Variable Rate Discount Note
	Factor Based - MBS Products
FHA	Federal Housing Authority
FHL	Federal Home Loan
FN	Federal National Mortgage Association
GN	Government National Mortgage Association
	Time Deposit Products
TD	Time Deposit
	Structured Products
RP	Repurchase Agreement*
RVRP	Reverse Repurchase Agreement*
	Bond Forward Products
BFW	Forwards - Bond
Excl	nange Traded Derivatives Products
FUT	Futures
OPT	Option
L	

^{*}Although the document highlights matching at both the block and allocation level, some of the above products are not allocated and are just matched at the block level.



Future Deliverables:

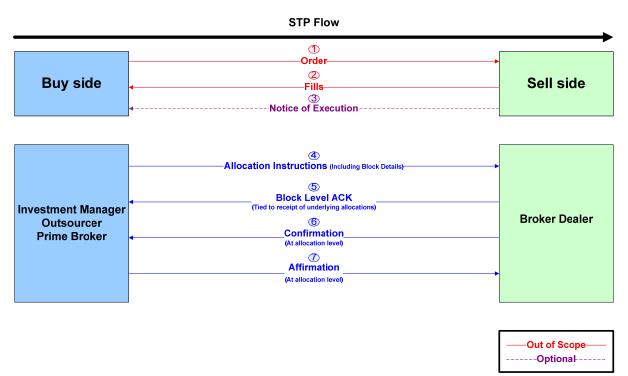
- 1.4.1 **Matching Attributes** Group will look to consider the identification of matching level data elements by product within the document.
- 1.4.2 **Matching Timeframe Recommendations –** The recommendation from the group is to match on Trade Date.
- 1.4.3 **Product Coverage** Additional product will be included within the Best Practice as they are defined. Added FX Options
- 1.4.4 **Securities Lending Flows –** TBD Inclusion of Sec Lending matching flows in the document. (Refer to Appendix A for flow diagram)
- 1.4.5 **TriParty Agent Matching Flows –** TBD on how to integrate into document.
- 1.4.6 **Payments Matching:** TBD if it needs to be considered.
- 1.4.7 Foreign Exchange Matching: To be added.



High Level Flows

1.5 Local /Bilateral Matching - STP Flow

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which all details are accurate and the transaction successfully flows through the matching process.

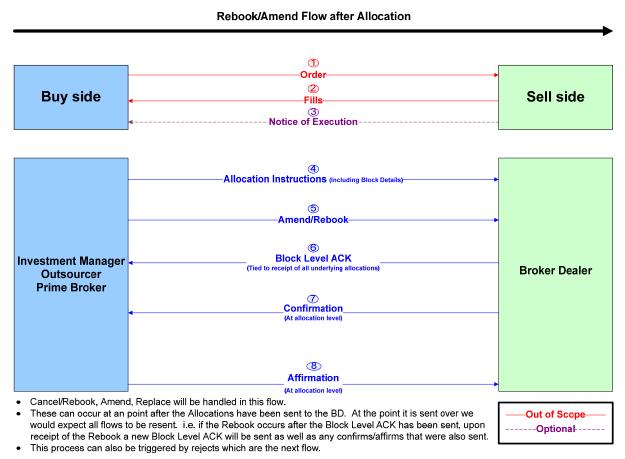


- 1.5.1 Buy side firm sends order to sell side
- 1.5.2 Sell side firm submits fills to buy side.
- 1.5.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.5.4 Buy side firm allocates order to underlying accounts and submits the details to the Sell side. This includes the overall total for the block with the underlying allocation breakdown. This can be instructed in a single message or multiple depending on the preferred syntax.
- 1.5.5 Sell side firm acknowledges receipt of block with allocations.
- 1.5.6 Sell side firm confirms details of all allocation transactions.
- 1.5.7 Buy side affirms the details of the confirmation and the transaction is considered matched.



1.6 Local/Bilateral Matching – Rebook/Amend Flow after allocation

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which an amendment or cancel/rebook transaction is initiated by the buy side after allocations are sent.

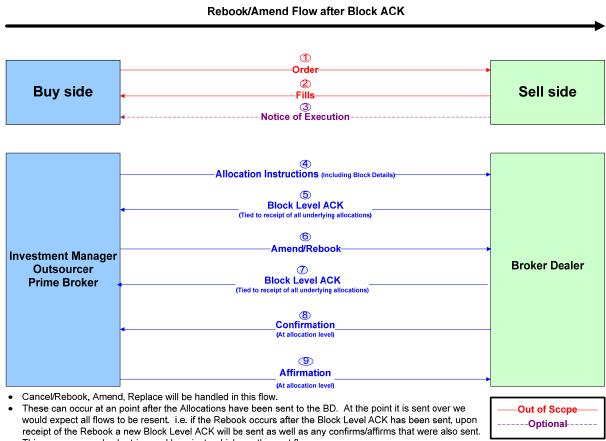


- 1.6.1 Buy side firm sends order to sell side
- 1.6.2 Sell side firm submits fills to buy side.
- 1.6.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.6.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.6.5 Buy side firm sends amendment or cancel/rebook instruction(s) to sell side.
- 1.6.6 Sell side firm acknowledges receipt of block with allocations.
- 1.6.7 Sell side firm confirms details of all allocation transactions.
- 1.6.8 Buy side firm sends affirmation details to sell side.



1.7 Local/Bilateral Matching – Rebook/Amend Flow after block ACK

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which an amendment or cancel/rebook transaction is initiated by the buy side after block ACK.

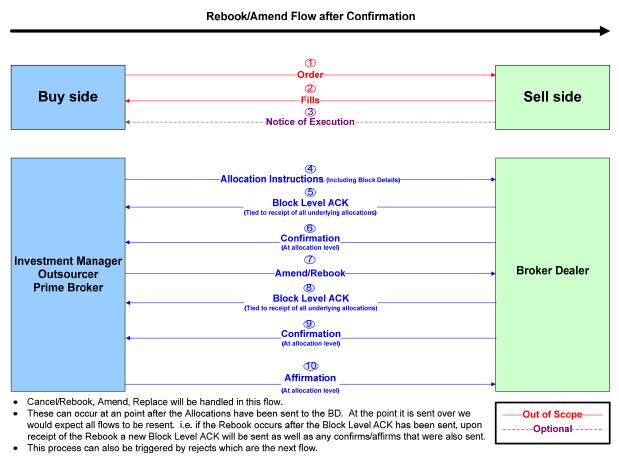


- This process can also be triggered by rejects which are the next flow.
- 1.7.1 Buy side firm sends order to sell side
- 1.7.2 Sell side firm submits fills to buy side.
- 1.7.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.7.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.7.5 Sell side firm acknowledges receipt of block with allocations.
- 1.7.6 Buy side firm sends amendment or cancel/rebook instruction(s) to sell side.
- 1.7.7 Sell side firm acknowledges receipt of block with allocations.
- 1.7.8 Sell side firm confirms details of all allocation transactions.
- 1.7.9 Buy side firm sends affirmation details to sell side.



1.8 Local/Bilateral Matching – Rebook/Amend Flow after confirmation

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which an amendment or cancel/rebook transaction is initiated by the buy side after confirmation.

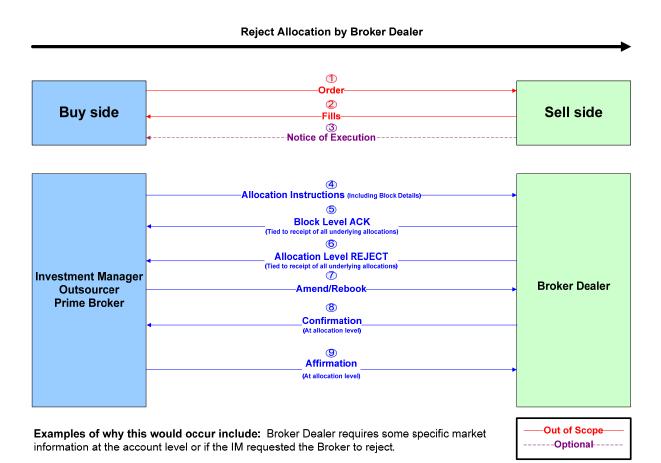


- 1.8.1 Buy side firm sends order to sell side
- 1.8.2 Sell side firm submits fills to buy side.
- 1.8.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.8.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.8.5 Sell side firm acknowledges receipt of block with allocations.
- 1.8.6 Sell side firm confirms details of all allocation transactions.
- 1.8.7 Buy side firm sends amendment or cancel/rebook instruction(s) to sell side.
- 1.8.8 Sell side firm acknowledges receipt of block with allocations.
- 1.8.9 Sell side firm confirms details of all allocation transactions.
- 1.8.10 Buy side firm sends affirmation details to sell side.



1.9 Local /Bilateral Matching – Reject Allocation by Broker Dealer

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which the sell side firm rejects an allocation(s) to the buy side.



- 1.9.1 Buy side firm sends order to sell side
- 1.9.2 Sell side firm submits fills to buy side.
- 1.9.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.9.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.9.5 Sell side firm acknowledges receipt of block with allocations.
- 1.9.6 Sell side firm rejects allocation(s) details back to buy side.
- 1.9.7 Buy side firm sends amendment or cancel/rebook instruction(s) to sell side.
- 1.9.8 Sell side firm confirms details of all allocation transactions.
- 1.9.9 Buy side firm sends affirmation details to sell side.



-Optional-

1.10 Local/Bilateral Matching – Reject Block by Broker Dealer

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which the sell side firm rejects the block to the buy side.

Reject Block by Broker Dealer 1 2 **Buy side** Sell side Fills ③ Notice of Execution Allocation Instructions (Including Block Details **Block Level REJECT** (Tied to receipt of all underlying allocations **6** Amend/Rebook **Investment Manager Block Level ACK Broker Dealer** Outsourcer **Prime Broker** Confirmation **Affirmation** (At allocation level) Examples of why this would occur include: Any of the primary block level fields do not Out of Scope

- 1.10.1 Buy side firm sends order to sell side
- 1.10.2 Sell side firm submits fills to buy side.
- 1.10.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.10.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.10.5 Sell side rejects block transaction back to buy side.
- 1.10.6 Buy side firm sends amendment or cancel/rebook instruction(s) to sell side.

match, potential duplicate transaction, attempting to cancel trade but it is too late to send, the

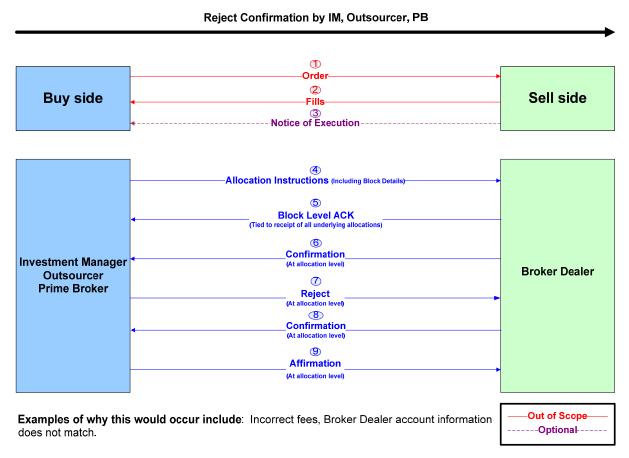
sum of allocations does not equal the block values, missing account information, etc.

- 1.10.7 Sell side firm acknowledges receipt of block with allocations.
- 1.10.8 Sell side firm confirms details of all allocation transactions.
- 1.10.9 Buy side firm sends affirmation details to sell side.



1.11 Local/Bilateral Matching – Reject Confirm by Investment Manager/Outsourcer/Prime Broker

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which the buy side firm rejects a confirm to the sell side.



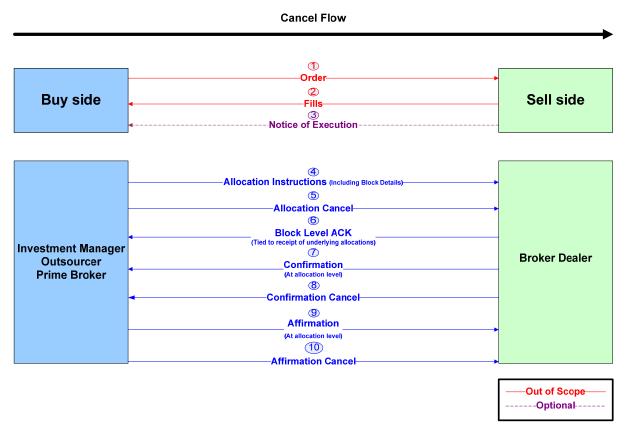
- 1.11.1 Buy side firm sends order to sell side
- 1.11.2 Sell side firm submits fills to buy side.
- 1.11.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.11.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.11.5 Sell side firm acknowledges receipt of block with allocations.
- 1.11.6 Sell side firm confirms details of all allocation transactions.
- 1.11.7 Buy side firm rejects confirm(s) back to sell side
- 1.11.8 Sell side firm provides updated confirm(s) back to buy side.
- 1.11.9 Buy side firm sends affirmation details to sell side.

^{*}Note that the Broker Dealer can choose to reject the IM reject.



1.12 Local/Bilateral Matching – Cancel Flow

The below flow provide the overall interaction between the buy side and sell side firms in local/bilateral matching in which a cancel transaction is initiated from either party.



Outright Cancel can occur at any point during the below process but can only happen if with the Buyside and Sellside agree.

- 1.12.1 Buy side firm sends order to sell side
- 1.12.2 Sell side firm submits fills to buy side.
- 1.12.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.12.4 Buy side firm allocates order to underlying accounts and submits the details to the sell side.
- 1.12.5 Buy side firm send cancel instruction(s) to sell side.
- 1.12.6 Sell side firm acknowledges receipt of block with allocations.
- 1.12.7 Sell side firm confirms details of all allocation transactions.
- 1.12.8 Sell side firm confirms cancel
- 1.12.9 Buy side firm sends affirmation details to sell side.
- 1.12.10 Buy side firm send affirmation cancel to sell side.

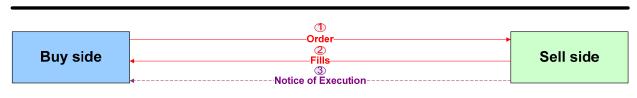
*It is important to note the order of the cancel can impact the order to the transaction flow and the types of message sent to and from parties and when.

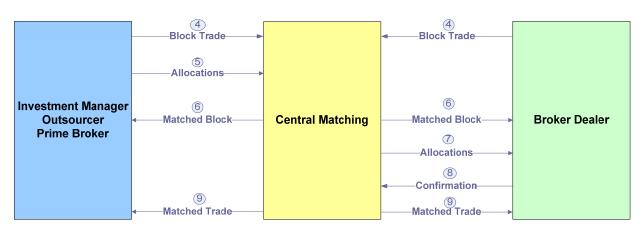


1.13 Central Matching – STP Flow

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which all details are accurate and the transaction successfully flows through the matching process.

STP Flow







- 1.13.1 Buy side firm sends order to sell side
- 1.13.2 Sell side firm submits fills to buy side.
- 1.13.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.13.4 Buy side and sell side firms send block trade to central matching utility.
- 1.13.5 Buy side firm sends allocation level details to central matching utility. (This can be done at the same time as the block or not.)
- 1.13.6 Central matching utility matches blocks and sends matched block status to buy side and sell side firms.
- 1.13.7 Central matching utility sends allocations to sell side
- 1.13.8 Sell side firm sends confirmations to central matching utility.
- 1.13.9 Central matching utility matches allocations and sends matched trade details to both buy side and sell side firms.

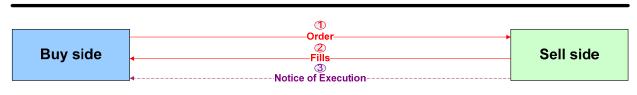


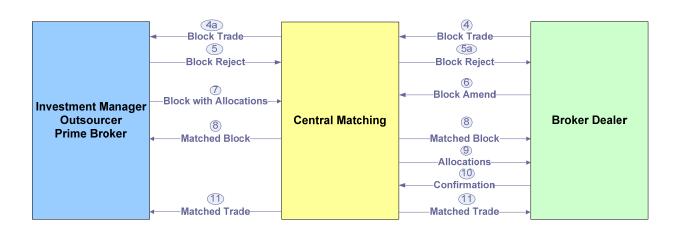
-Optional- --

1.14 Central Matching – Reject/Amend Flow at Block

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which either party rejects or amends a transaction at the block level.

Reject/Amend Flow at Block





- Rejects can be initiated by either the Broker Dealer or the IM/Outsourcer/PB. Typical reasons for this flow are when incorrect counterparty or account are provided.

 Out of Score.
- 1.14.1 Buy side firm sends order to sell side
- 1.14.2 Sell side firm submits fills to buy side.
- 1.14.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.14.4 Sell side firm sends block trade to central matching utility. Central matching utility sends block trade to buy side firm.
- 1.14.5 Buy side firm rejects block trade sent from sell side to central matching utility. Central matching utility sends reject to sell side firm.
- 1.14.6 Sell side firm sends block amendment to central matching utility.
- 1.14.7 Buy side firm send block and allocation level details to central matching utility.
- 1.14.8 Central matching utility matches blocks and sends matched block status to buy side and sell side firms.
- 1.14.9 Central matching utility sends allocations to sell side.
- 1.14.10 Sell side firm sends confirmations to central matching utility.
- 1.14.11 Central matching utility matches allocations and sends matched trade details to both buy side and sell side firms.

*It is important to highlight that rejects or amends can be sent from either the buy side or sell side firms.

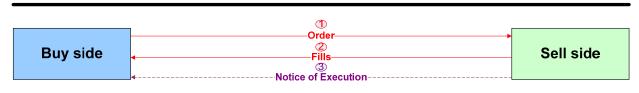


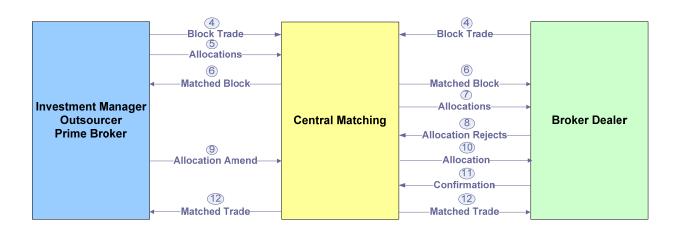
Out of Scope-

1.15 Central Matching – Reject/Amend Flow at Allocation

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which either party rejects or amends a transaction at the allocation level.

Reject/Amend Flow at Allocation





- Rejects can be initiated by either the Broker Dealer or the IM/Outsourcer/PB. Typical reasons for this flow are when
 incorrect counterparty or account are provided.
- 1.15.1 Buy side firm sends order to sell side
- 1.15.2 Sell side firm submits fills to buy side.
- 1.15.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.15.4 Buy side and sell side firms send block trade to central matching utility.
- 1.15.5 Buy side firm sends allocation level details to central matching utility. (This can be done at the same time as the block or not.)
- 1.15.6 Central matching utility matches blocks and sends matched block status to buy side and sell side firms.
- 1.15.7 Central matching utility sends allocations to sell side.
- 1.15.8 Sell side rejects allocations sent by buy side.
- 1.15.9 Buy side firm sends allocation amendment(s) to central matching utility.
- 1.15.10 Central matching utility sends allocations to sell side.
- 1.15.11 Sell side firm sends confirmations to central matching utility.
- 1.15.12 Central matching utility matches allocations and sends matched trade details to both buy side and sell side firms.

*It is important to highlight that rejects or amends can be sent from either the buy side or sell side firms.

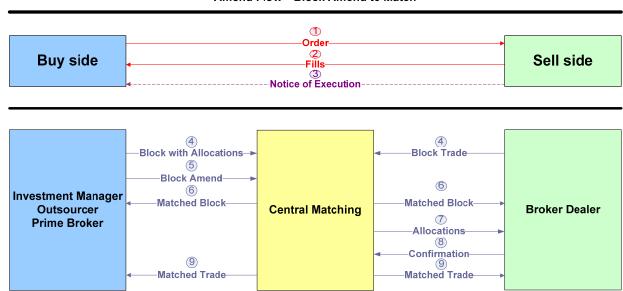


--Optional----

1.16 Central Matching –Block Amend to Match

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which either party amends the block.

Amend Flow - Block Amend to Match



- This situation typically occurs when the IM/Outsourcer/PB realize the block level fields do not match so they initiate the Amend.
- For mismatched transactions this flow will be used in which an amend will be sent after receiving the status from the central matching utility.
- 1.16.1 Buy side firm sends order to sell side
- 1.16.2 Sell side firm submits fills to buy side.
- 1.16.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.16.4 Buy side and sell side firms send block trade to central matching utility. Buy side firm includes allocation details as well.
- 1.16.5 Buy side firm sends block amendment to central matching utility.
- 1.16.6 Central matching utility matches blocks and sends matched block status to buy side and sell side firms.
- 1.16.7 Central matching utility sends allocations to sell side.
- 1.16.8 Sell side firm sends confirmations to central matching utility.
- 1.16.9 Central matching utility matches allocations and sends matched trade details to both buy side and sell side firms.

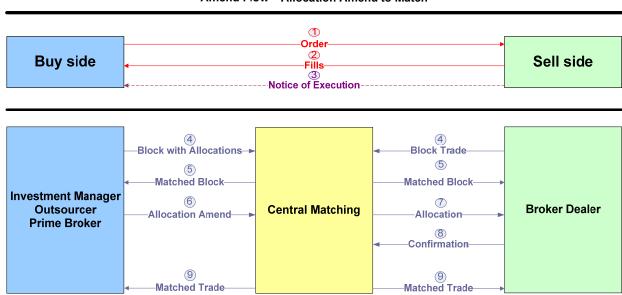
*It is important to highlight that block amends can be sent from either the buy side or sell side firms.



1.17 Central Matching –Allocation Amend to Match

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which the buy side amends the allocation(s) or the sell side amends the confirmation(s).

Amend Flow - Allocation Amend to Match



• This scenario applies when the IM/Outsourcer/PB realize that the financials (i.e. Fees/Taxes) are incorrect. If the overall financials change at the block level than the block would need to be re-sent and matched.

Out of Scope

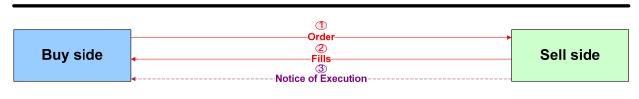
- 1.17.1 Buy side firm sends order to sell side
- 1.17.2 Sell side firm submits fills to buy side.
- 1.17.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.17.4 Buy side and sell side firms send block trade to central matching utility. Buy side firm includes allocation details as well.
- 1.17.5 Central matching utility matches blocks and sends matched block status to buy side and sell side firms.
- 1.17.6 Buy side firm sends allocation amendment(s) to central matching utility.
- 1.17.7 Central matching utility sends allocations to sell side.
- 1.17.8 Sell side firm sends confirmations to central matching utility.
- 1.17.9 Central matching utility matches allocations and sends matched trade details to both buy side and sell side firms.

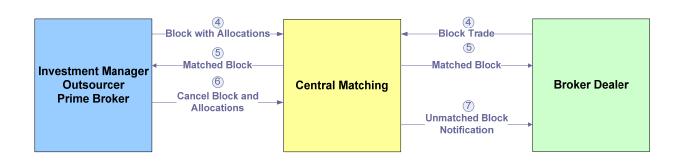


1.18 Central Matching –Unilateral Cancel Before Match

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which either party attempts to cancel the transaction before it is matched.

Unilateral Cancel - Before Match





 This situation typically occurs when the IM/Outsourcer/PB realize they want to cancel the transaction.



- 1.18.1 Buy side firm sends order to sell side
- 1.18.2 Sell side firm submits fills to buy side.
- 1.18.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.18.4 Buy side and sell side firms send block trade to central matching utility. Buy side firm includes allocation details as well.
- 1.18.5 Central matching utility matches block and sends matched block status to buy side and sell side firms
- 1.18.6 Buy side firm sends cancel for block and allocations to central matching utility.
- 1.18.7 Central matching utility sends unmatched block notification to sell side.

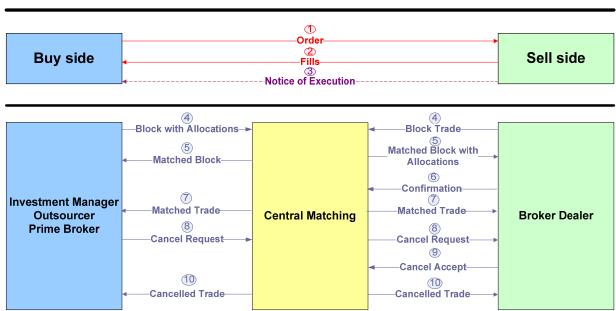
*It is important to highlight that unilateral cancels can be sent from either the buy side or sell side firms



1.19 Central Matching -Bilateral Cancel After Match

The below flow provides the overall interaction between the buy side and sell side firms in central matching in which both parties agree to cancel the transaction.

Bilateral Cancel - After Match



- This scenario applies when either the IM/Outsourcer/PB or the Broker Dealer want to cancel the transaction.
- Either party can request a cancel and can either choose to accept or reject.

Out of Scope

- 1.19.1 Buy side firm sends order to sell side
- 1.19.2 Sell side firm submits fills to buy side.
- 1.19.3 Once order has been completed final notice of execution is sent from sell side to buy side.
- 1.19.4 Buy side and sell side firms send block trade to central matching utility. Buy side firm includes allocation details as well.
- 1.19.5 Central matching utility matches blocks and sends matched block status to buy side and sell side firms. When sending to sell side allocations are included
- 1.19.6 Sell side firm sends confirmations to central matching utility.
- 1.19.7 Central matching utility matches allocations details and send matched trade details to both buy side and sell side firms.
- 1.19.8 Buy side firm submits cancel request to central matching utility which is sent to sell side firm.
- 1.19.9 Sell side firm accepts cancel request and sends to central matching utility.
- 1.19.10 Central matching utility sends cancelled trade status to buy side and sell side.

*It is important to highlight that bilateral cancels can be sent from either the buy side or sell side firms.



2.0 Business Requirements

2.1 Enrichments

The below items highlight existing services within the matching process. The availability and use is dependent upon the matching service and what is agreed upon with the counterparties. This is not intended to be a complete list.

- 2.1.1 Standing Settlement Instructions: Information must be provided on the allocations and confirmations to be shared between the Broker Dealer and Investment Manager/Outsourcer/Prime Broker. The recommendation is to follow market practice and provide all relevant information such as Place of Settlement, Receive/Deliver Agent information, Counterparty information.
- 2.1.2 **Broker Cross Reference:** Recommendation is to follow existing Market Practice recommendations to use BIC or DTC ID for the Executing Broker and BIC/Local clearing codes (where applicable) for Clearing Information. The information provided can either be at the detailed level (i.e. Local specific) or more high level (i.e. Counterparty). The cross referencing would be agreed upon with the counterparties to the matching process.
- 2.1.3 Security Identification Cross Reference: Recommendation is to follow existing Market Practice recommendations to use ISIN as the preferred value. Local matching utilities would establish necessary cross reference tools to allow for multiple options to be used. For multi-listed assets additional data elements or classifications need to be considered as well.
- 2.1.4 **Tolerances:** Data should be captured and stored either in central matching utility or local matching products. This feature allows users to identify tolerance levels in which a transaction can match within (i.e. within \$1 would be a level that can be configured). This is driven by the client and configurable.



2.2 Closed Issues

- 2.2.1 NOE In Scope vs. Out of Scope Based on more detailed discussions the flow diagrams were updated and NOE was identified as an Optional flow. Notice of Execution (NOE): Upon initial review of the draft flows it was identified that the NOE was made out of scope for the purpose of the matching requirements. Several member firms identified potential reasons to include or exclude the NOE from scope. If referred to as the FINAL NOE this would be in scope as it triggers the initiation of the post-trade process. Further discussions around if there is a separate block confirmation that happens after the NOE then it would be out of scope.
- 2.2.2 Allocation vs. Block Level Matching: There were several points raised around what the preferred matching process would be. Block with allocation or allocation only or both. The topic is being captured under future discussions. As this was covered in flows the group agreed this can be closed.
- 2.2.3 **Retention Requirements:** Do we need to document time of how long information should be stored as well as where, does information need to be stored centrally to be accessed? This is to be defined firm by firm and cannot be captured in the overall best practice. The recommendation is this should at a minimum follow SEC requirements which are 7 years.
- 2.2.4 Standard Service Levels around Time of Receipt: Do we need to incorporate this as part of the overall language to look at performance standards that firms should be adhering to? Leads to the production of scorecards. Within the overall scope of the document we have highlighted the recommendation that matching should happen on Trade Date. We will consider in a future version identify recommendations by product.



3.0 Matching Attributes – DRAFT

3.1 Equity Match Fields

LIST COMPLETE REQUIRES FINAL REVIEW

Category (Equity)						
Field Name	B/A/Both	M/O	Туре			
Investment Manager	Both	М	Exact			
Executing Broker	Both	М	Exact			
Security Identifier	Both	М		Exact		
Buy/Sell or Side Indicator	Both	М		Exact		
Trade Date	Both	М		Exact		
Quantity	Block	М		Exact		
Quantity Allocated	Both	М		Exact		
Account ID	Both	М		Exact		
Deal Price	Both	0		Exact or Tolerance		
Total Principal or Gross Trade Amount	Block	0	Exact or Tolerance			
Principal or Gross Trade Amo	unt Both	0		Exact or Tolerance		
Settlement Date	Both	0		Exact		
Place of Settlement	Both	0	Cross/Compatible		ble	
Total Commissions	Block	0	Exact or Tolerance		nce	
Commissions	Both	0		Exact or Tolerance		
Total Charges/Fees/Taxes	Block	0	Exact or Tolerance		nce	
Charges/Fees/Taxes	Both	0	Exact or Tolerance		nce	
Settlement Currency & Amour	nt Both	0	Exact or Tolerance			
Net Amount	Both	0	Exact or Tolerance			
Traded Currency	Both	0		Exact		
Applicable ISITC Classification Codes						
CS ETF	MF		PS	RTS	WAR	

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.2 Fixed Income Match Fields

LIST COMPLETE REQUIRES FINAL REVIEW

Category (Fixed Income)						
Field Name		B/A/Both	M/O		Туре	
Investment Manager		Both	М		Exact	
Executing Broke	r	Both	М		Exact	
Security Identifie	r	Both	М		Exact	
Buy/Sell or Side	Indicator	Both	М		Exact	
Trade Date		Both	М		Exact	
Quantity		Block	М		Exact	
Quantity Allocate	ed .	Both	М		Exact	
Account ID		Both	М		Exact	
Deal Price		Both	0		Exact or Tole	erance
Total Principal or Gross Trade Amount		Block	0		Exact or Tolerance	
Principal or Gros	s Trade Amount	Both	0		Exact or Tolerance	
Settlement Date		Both	0		Exact	
Place of Settlem	ent	Both	0		Cross/Compatible	
Total Accrued In	terest	Block	0		Exact or Tolerance	
Accrued Interest		Both	0		Exact or Tolerance	
Total Charges/Fe	ees/Taxes	Block	0		Exact or Tole	erance
Charges/Fees/Ta	axes	Allocation	0		Exact or Tole	erance
Settlement Curre	ency & Amount	Both	0		Exact or Tolerance	
Net Amount		Both	0		Exact or Tolerance	
Traded Currency		Both	0		Exact	
Applicable ISITC Classification Codes						
СВО	CD	СР	BA	CORP CPP		
IET	MPP	MUNI	SL		STF	STRP
DISC	FAD	FRN	GOVT		TIPS	TN
TRPS	UBWW	UNBD	USTB		VRDN	

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.3 Factor based - MBS Match Field

LIST REQUIRES VALIDATION ON ALL DATA AS WELL AS RELEVANT ISITC CLASSIFICATION CODES

Category (Fixed Income)						
Field Name	B/A/Both	M/O	Туре			
Investment Manager	Both	М	Exact			
Executing Broker	Both	М	Exact			
Security Identifier	Both	М	Exact			
Buy/Sell or Side Indicator	Both	М	Exact			
Trade Date	Both	М	Exact			
Quantity/Original Face	Block	М	Exact			
Quantity/Face Allocated	Both	М	Exact			
Account ID	Both	М	Exact			
Deal Price	Both	0	Exact or Tolerance			
Factor	Both	0	Exact or Tolerance			
Current Face	Both	0	Exact or Tolerance			
Settlement Date	Both	0	Exact			
Place of Settlement	Both	0	Cross/Compatible			
Total Accrued Interest	Block	0	Exact or Tolerance			
Accrued Interest	Both	0	Exact or Tolerance			
Settlement Currency & Amount	Both	0	Exact or Tolerance			
Net Amount	Both	0	Exact or Tolerance			
Traded Currency	Both	0	Exact			
Applicable ISITC Classification Codes						
FHA FHL CDO CLO		FN CMO	GN TIPS			

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

OPEN: Do we need to include a field for Fees/Taxes/Charges?

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.4 Time Deposit Match Fields

Category (Equity)					
Field Name	B/A/Both	M/O	Туре		
Investment Manager					
Executing Broker					
Buy/Sell Indicator					
Trade Date					
Issuer					
Interest Rate					
Maturity Date					
Total Quantity					
Quantity Allocated					
Deal Price (optional)					
Account ID					
Settlement Date					
Type of Activity					
Type of Financial Instrument					
Allocated Trade Amount					
Total Interest					
Interest Allocated					
Settlement Amount					
Applicable ISITC Classification Codes					
TD					

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.5 Repo/Reverse Repo Match Fields

Category (Equity)					
Field Name	B/A/Both	M/O	Туре		
Investment Manager					
Executing Broker					
Security Identifier					
Buy/Sell Indicator					
Trade Date					
Quantity (B)					
Quantity Allocated					
Deal Price (optional)					
Account ID					
Deal Price (B)					
Total Trade Amount (B)					
Settlement Date (B)					
Trade Transaction Condition Indicator (B)					
Type of Financial Instrument (B)					
Trade Amount (A)					
Quantity (A)					
Settlement Amount (A)					
Applicable ISITC Classification Codes					
RP RVRP					

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.6 Bond Forward Match field

Category (Equity)					
Field Name	B/A/Both	M/O	Туре		
Investment Manager					
Executing Broker					
Security Identifier					
Buy/Sell Indicator					
Trade Date					
Quantity (B)					
Quantity Allocated					
Deal Price (optional)					
Account ID					
Deal Price (B)					
Total Trade Amount (B)					
Settlement Date (B)					
Trade Transaction Condition Indicator (B)					
Type of Financial Instrument (B)					
Trade Amount (A)					
Quantity (A)					
Settlement Amount (A)					
Applicable ISITC Classification Codes					
BFW					

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.7 Exchange Traded Derivatives (ETD) Match Fields

	Category (Equity)				
Field Name	B/A/Both	M/O	Туре		
Investment Manager	Both	М			
Executing Broker or Clearing Broker	Both	М			
Security Identifier	Both	М			
Buy/Sell Indicator	Both	М			
Trade Date	Both	М			
Total Quantity	Both	М			
Account ID					
Lot Size					
Underlying Asset Security Code					
Delivery Date					
Delivery Type					
Place of Trade					
Deal Price (B)*					
Total Charges or Taxes	Block				
Total Commissions	Both				
Quantity (A)	Allocation				
Deal Price (A)	Both				
Charges or Taxes (A)	Both				
Commissions (A)	Both				
Processing Indicator (new)					
Settlement Date					
Put or Call Indicator					
Option Style					
Strike Price					
Expiration Date					
Premium Amount					
Арр	licable ISITC	Classifica	tion Codes		
FUT			OPT		

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.8 FX Options Match Fields

Category (Equity)					
Field Name	B/A/Both	M/O	Туре		
Investment Manager	Both	М			
Executing Broker or Clearing Broker	Both	М			
Security Identifier	Both	М			
Buy/Sell Indicator	Both	М			
Trade Date	Both	М			
Total Quantity	Both	М			
Account ID					
Lot Size					
Underlying Asset Security Code					
Delivery Date					
Delivery Type					
Place of Trade					
Deal Price (B)*					
Total Charges or Taxes	Block				
Total Commissions	Both				
Quantity (A)	Allocation				
Deal Price (A)	Both				
Charges or Taxes (A)	Both				
Commissions (A)	Both				
Processing Indicator (new)					
Settlement Date					
Put or Call Indicator					
Option Style					
Strike Price					
Expiration Date					
Premium Amount					
Applicable ISITC Classification Codes					
FX Option					

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.

^{****}Traded Currency applies when you are settling against another currency



3.9 FX Match Fields

Category (Equity)				
Field Name	B/A/Both	M/O	Туре	
Investment Manager				
Executing Broker or Clearing Broker				
Trade Date				
Account ID				
Buy Currency & Amount				
Sell Currency & Amount				
Exchange Rate				
Settlement Date				
FX Type – Spot vs. Forward				
CLS?				
NDF?				
Net Currency & Amount				
Applicable ISITC Classification Codes				
Spot	Forward			

^{*}This is intended to be a list of the key elements for matching. Additional fields may exist and can be added upon agreement between buy-side and sell-side firms.

^{**}B/A/Both column represents field usage for matching in either a Block/Allocation or Allocation only match service.

^{***}Although fields are identified as Optional for matching this would be a case by case basis between the buy-side and sell-side on what the key fields to be used.



Appendix A: Securities Lending Flow

