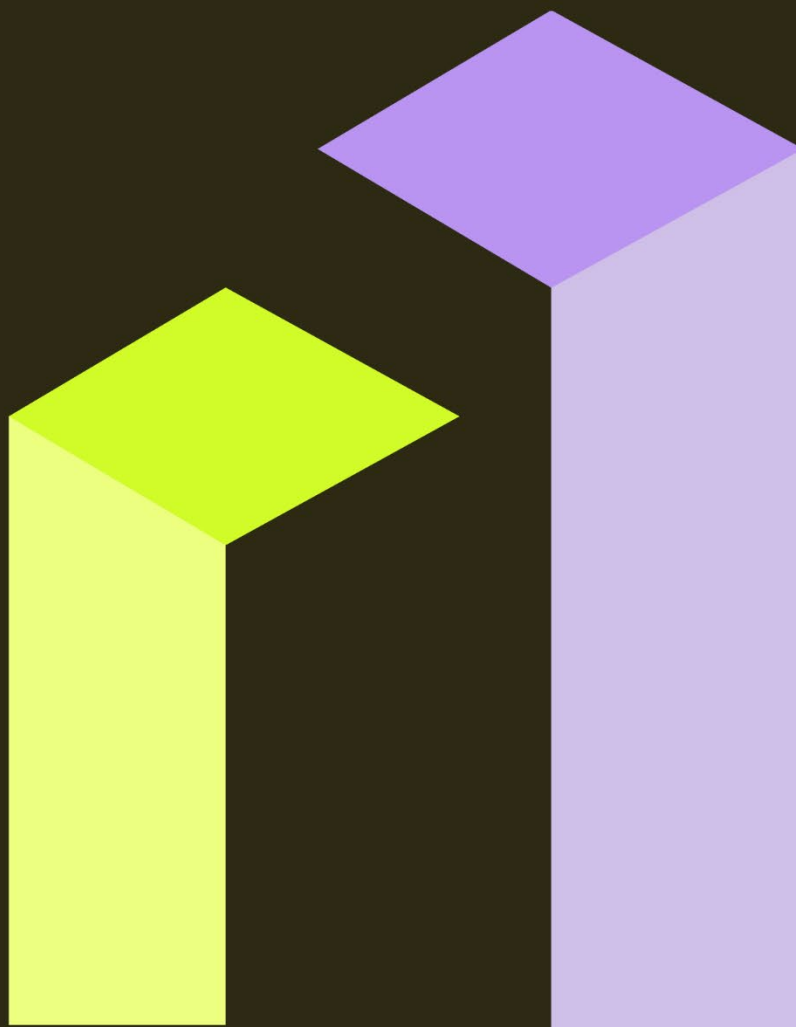


base

EXCHANGE

ALO FIX PROTOCOL



ALO FIX PROTOCOL

*UNDER REGULATORY APPROVAL



VERSION HISTORY

Version	Change Description	Date
1.0	Original version	11/08/2024
2.0	Added Memo tag to all messages; Added EnteringTrader party group on Execution Report; Changed rejection and cancellation codes.	07/21/2025

ALO Protocol

This document aims to provide the required information of Base Exchange's FIX Order Entry. Authorized market participants will send orders to buy or sell through FIX Order Entry Gateway. Accepted Orders are subject to matching conditions according to their parameters. Orders that cannot be executed immediately will be posted to our Order Book following price-time priority to be executed in appropriate market conditions.

By these gateways, Market participants will be able to send New Order requests or request Cancel and Replace of previously sent Orders as well as receive the related executions. For a better understanding of Execution Rules please refer to the Operations Procedure Guide. For Information on Market Data, please refer to ALI Protocol (available separately).

Base Exchange provides FIX 4.4 order entry gateways that convert messages into its native ALO messages and back again. Session layer follows the standard FIX 4.4 protocol (administrative messages: Logon/Logout, etc), standard message header and trailer are expected in inbound messages according to the FIX 4.4 protocol rules. Fields that are only required by the protocol may not be validated on the exchange side, unsupported tags in inbound messages will be ignored.

Disclaimer: This document is a work in progress and should not be considered as final. It is subject to further revisions and modifications pending approval from regulatory agencies. Any information contained herein is preliminary and may be subject to change.

Last Update July, 2025

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1. Summary

Each FIX Order Entry has at least one physical ALO host associated. If the client desires a fault-tolerant configuration, additional physical ALO hosts can be bound to a same FIX Order Entry instance, which will then work as replicas generating the same outbound messages.

2. FIX User setup

It is the Trading Member's responsibility to request the creation of its FIX Sessions, each one is identified by a unique UserId assigned on the User creation.

2.1 Parameters

1. Password
2. Network
 - The exchange shall provide the IP address, port, SenderCompId and TargetCompId where each FIX session listens for client applications to connect
 - Note: each FIX session can have only one active connection at a time
3. Connection Origin
 - Trading member, Technology Provider or Investor
4. Cancel on Disconnect
 - Optional

3. Inbound Messages

3.1 New Order Single <D>

Tag	FieldName	Required	Comment
11	ClOrdID	Y	Unique identifier for Order as assigned by the client. Uniqueness must be guaranteed within a single trading day. Must be 14 characters or less.
54	Side	Y	Valid values: 1 = Buy 2 = Sell
38	OrderQty	Y	Total number of shares.
55	Symbol	Y	Stock symbol. Must be 8 characters or less.
40	OrdType	Y	Valid values: 1 = Market 2 = Limit

60	TransactTime	Y	Required by the FIX protocol.
453	NoPartyIDs	Y	1. Used to identify entering trader
448	PartyID	Y	Entering trader code.
447	PartyIDSource	Y	D = proprietary code.
452	PartyRole	Y	36 = EnteringTrader.
44	Price	C	Required for limit orders.
432	ExpireDate	C	Date of order expiration (last day the order can trade), always expressed in terms of the local market date.
59	TimeInForce	N	Absence of this field indicates Day order (0). Valid values: 0 = Day 1 = Good Till Cancel (GTC) 3 = Immediate or Cancel (IOC) 4 = Fill or Kill (FOK) 6 = Good Till Date (GTD)
1	Account	N	If provided it must be an integer.
111	MaxFloor	N	Maximum quantity within an order to be shown on the exchange floor at any given time.
2362	SelfMatchPreventionID	N	Analogous to ALO STPKey, is the trigger to Self Trade Prevention. Absence of this field indicates no Self Trade Prevention for this order. If provided it must be an integer (note the value 0 also means no STP for this order).
5149	Memo	N	Client optional custom memo

3.2 Order Cancel/Replace Request <G>

Tag	FieldName	Required	Comment
41	OrigClOrdID	Y	ClOrdID of the previous non-rejected order.
11	ClOrdID	Y	Unique ID of the replace request as assigned by the client. Must be 14 characters or less.
38	OrderQty	Y	Total number of shares.
44	Price	Y	Required for limit orders (note: market orders cannot be replaced).
55	Symbol	Y	Required by the FIX protocol.
54	Side	Y	Required by the FIX protocol.
60	TransactTime	Y	Required by the FIX protocol.

40	OrdType	Y	Required by the FIX protocol.
453	NoPartyIDs	Y	1. Used to identify entering trader
448	PartyID	Y	Entering trader code.
447	PartyIDSource	Y	D = proprietary code.
452	PartyRole	Y	36 = EnteringTrader.
432	ExpireDate	C	Date of order expiration (last day the order can trade), always expressed in terms of the local market date. Note: this field is ignored for orders that do not have Good Till Date time in force.
111	MaxFloor	N	Maximum quantity within an order to be shown on the exchange floor at any given time. Note: this field is ignored for orders created without MaxFloor.
5149	Memo	N	Client optional custom memo

3.3 Order Cancel Request <F>

Tag	FieldName	Required	Comment
41	OrigClOrdID	Y	ClOrdID of the previous non-rejected order.
11	ClOrdID	Y	Unique ID of the cancel request as assigned by the client. Must be 14 characters or less.
55	Symbol	Y	Required by the FIX protocol.
54	Side	Y	Required by the FIX protocol.
60	TransactTime	Y	Required by the FIX protocol.
38	OrderQty	Y	Required by the FIX protocol.
453	NoPartyIDs	Y	1. Used to identify entering trader
448	PartyID	Y	Entering trader code.
447	PartyIDSource	Y	D = proprietary code.
452	PartyRole	Y	36 = EnteringTrader.
5149	Memo	N	Client optional custom memo

4. Outbound Messages

4.1 Execution Report <8>

Tag	FieldName	Required	Comment
37	OrderID	Y	
11	ClOrdID	Y	
17	ExecID	Y	
150	ExecType	Y	
39	OrdStatus	Y	
55	Symbol	Y	
38	OrderQty	Y	
54	Side	Y	
151	LeavesQty	Y	
14	CumQty	Y	
6	AvgPx	Y	
44	Price	C	
40	OrdType	N	
59	TimeInForce	N	
1	Account	N	
111	MaxFloor	N	
2362	SelfMatchPreventionID	N	
432	ExpireDate	N	
103	OrdRejReason	N	Code to identify reason for new order rejection. Codes: same as ALO +1000
378	ExecRestatementReason	N	Required for unsolicited cancel reports
19	ExecRefID	N	Required for ExecType <150>=Trade Cancel.
41	OrigClOrdID	N	Required for a response to a Cancel or Cancel/Replace request.
382	NoContraBrokers	N	Required for ExecType <150>=Trade.
375	ContraBroker	N	Required for ExecType <150>=Trade. Note this field is nested in a repeating group.
32	LastQty	N	Required for ExecType <150>=Trade.
31	LastPx	N	Required for ExecType <150>=Trade.

851	LastLiquidityInd	N	Required for ExecType <150>=Trade.
58	Text	N	Free format
453	NoPartyIDs	Y	1. Used to identify entering trader
448	PartyID	Y	Entering trader code.
447	PartyIDSource	Y	D = proprietary code.
452	PartyRole	Y	36 = EnteringTrader.
5149	Memo	N	Client optional custom memo

4.2 Order Cancel Reject <9>

Tag	FieldName	Required	Comment
37	OrderID	Y	Unique identifier for Order as assigned by the exchange.
41	OrigClOrdID	Y	ClOrdID which could not be canceled/replaced.
11	ClOrdID	Y	Unique identifier for the Order Cancel Request or the Order Cancel Replace Request, as assigned by the client.
39	OrdStatus	Y	Order status value after this cancel reject is applied.
434	CxlRejResponseTo	Y	Identifies the type of request being replied.
102	CxlRejReason	N	Code to identify reason for cancel rejection. Codes: same as ALO +1000
103	OrdRejReason	N	Code to identify reason for new order rejection. Codes: same as ALO +1000
58	Text	N	Free format.
5149	Memo	N	Client optional custom memo

Reason Number	Code
0	TooLate
1	Unknown
2	ExchangeClosed
6	Duplicate
99	Other
1001	PortMessageRateRestriction
1002	OutOfTime

1003	Duplicate
1004	AccountNotAuthorized
1005	OperatorNotAuthorized
1020	InvalidSide
1021	InvalidDate
1022	InvalidQuantity
1023	InvalidVolume
1024	InvalidSymbol
1025	InvalidPrice
1026	InvalidTimeInForce
1027	InvalidPostOnly
1028	InvalidAttributable
1040	Halted
1041	NoRefPrice
1042	PriceOutsideRange
1043	PostOnly
1044	MaximumNumOrders
1510	InternalGTErrors

4.3 Business Message Reject <j>

Tag	FieldName	Required	Comment
372	RefMsgType	Y	The MsgType <35> of the FIX message being referenced.
380	BusinessRejectReason	Y	3 = Unsupported Message Type 4 = Application not available
5149	Memo	N	Client optional custom memo