

Front-End Audit Trail Requirements Advisory

Version 2.1

Modified July 28, 2026

Front-End Audit Trail Requirements Advisory

Associated with MIAX Futures Definitions and Rules 5.3. and 2.3.2.

Pursuant to MIAX Futures Definition of “Order” and Rules 5.3. and 2.3.2, MIAX Futures Exchange, LLC (“MIAX Futures” or “Exchange”) requires that each Clearing Member, OCC Clearing Member, or Onyx Direct Participant ensures that all orders submitted to the Exchange comply with the Exchange’s Audit Trail requirements.

In accordance with the Definition of “Order” and Rules 5.3. and 2.3.2., each Clearing Member, OCC Clearing Member, or Onyx Direct Access Participant shall, in accordance with CFTC Regulations, Exchange Rules, and guidance adopted by the Exchange, be responsible for maintaining electronic audit trail at the time of order generation:

ORDER: means any bid or offer to buy or sell a MIAX Futures contract in accordance with the Rules of the Exchange, which includes, but is not limited to, any cancellation, deletion, modification, alteration, or any other message pertaining to such Order, or as may otherwise be approved by the Exchange from time to time.

5.3. ORDER ENTRY AND AUDIT TRAIL REQUIREMENTS.

Market Participants shall enter Orders into the Electronic Trading System by electronic transmission and shall provide the information required by the Electronic Trading System for such MIAX Futures Contract and shall adhere to the audit trail requirements under **Rule 2.3.2**. The Exchange shall maintain an electronic record of successfully processed Order entries. Each Clearing Member, OCC Clearing Member, and Onyx Direct Access Participant shall be responsible for any and all Orders that it enters into the Electronic Trading System.

Similarly, each Clearing Member, OCC Clearing Member, or Onyx Direct Access Participant must maintain compliance with the following audit trail requirements for electronic audit trail reviews by the MIAX Futures Market Regulation Department:

2.3.2. ELECTRONIC AUDIT TRAIL AND OTHER RECORDKEEPING REQUIREMENTS.

All Clearing Members, OCC Clearing Members, and/or Onyx Direct Access Participants are required to maintain or cause to be maintained the Order routing and front-end audit trail for all electronic Orders that it or its customer enters including, but not limited to: Order entry, modification, cancellation and responses to such messages entered into the Electronic Trading System by the Clearing Member, Onyx Direct Access Participants, or its customers.

The Clearing Member, OCC Clearing Member, and/or Onyx Direct Access Participant may assign the recordkeeping requirements contained in this Rule subject to the following conditions: (1) the Clearing Member, OCC Clearing Member, and/or Onyx Direct Access Participant must have

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applicable written agreements assigning the recordkeeping requirements with particularity; and (2) upon request, either the Clearing Member, OCC Clearing Member, and/or Onyx Direct Access Participant must provide such agreements to the Exchange.

The Clearing Member, OCC Clearing Member, and/or Onyx Direct Access Participant must ensure that any written agreements assigning recordkeeping requirements of this Rule are being followed. The Clearing Member, OCC Clearing Member, and/or Onyx Direct Access Participant may be held accountable for failure to maintain or causing to be maintained the recordkeeping requirements of this Rule.

Audit trail data must contain a complete and accurate record of information and fields that are required by the Electronic Trading System and this Rule. Changes to required audit trail data for the Electronic Trading System may occur from time to time, and are hereby incorporated into this Rule. Required audit trail data means a record of all FIX Order Interface ("FOI") and Futures Express Interface ("FEI") Tag information and fields (as applicable), including, but not limited to: Account (Tag 1), Client Order ID (Tag 11), Execution ID (Tag 17), Last Price (Tag 31), Last Size (Tag 32), Order ID (Tag 37), Order Quantity (Tag 38), Order Status (Tag 39), Order Type (Tag 40), Original Client Order ID (Tag 41), Price (Tag 44), Operator ID (Tag 50), Client Sending Time (Tag 52), Order Instructions (Tag 54), Instrument ID (Tag 55), Text (Tag 58), Time in Force (Tag 59), Transaction Time (Tag 60), Stop Order Trigger Price (Tag 99), Minimum Quantity (Tag 110), Max Floor Quantity (Tag 111), MPID (Tag 115), Operator Location (Tag 142), Execution Type (Tag 150), Leaves Quantity (Tag 151), Secondary Order ID (Tag 198), Customer Order Handling Instruction (Tag 204), Status (Tag 378), Manual Order Indicator (Tag 1028), Customer Order Handling Instruction (Tag 1031), Display Quantity (Tag 1138), Self Trade Protection (Tag 7928), Display Range Quantity (Tag 8020), Replenishment Instruction (Tag 8021), Correction Number (Tag 9021), and CTI code (Tag 9702). In addition, for executed orders, records must include the execution time of the trade along with all fill information.

Audit trail data must contain a complete and accurate record of information and fields that are required by the Electronic Trading System and this Rule. Changes to required audit trail data for the Electronic Trading System may occur from time to time, and are hereby incorporated into this Rule. Required audit trail data means a record of all FIX Order Interface ("FOI") and Futures Express Interface ("FEI") Tag information and fields (as applicable), including, but not limited to: Account (Tag 1), Client Order ID (Tag 11), Execution ID (Tag 17), Last Price (Tag 31), Last Size (Tag 32), Order ID (Tag 37), Order Quantity (Tag 38), Order Status (Tag 39), Order Type (Tag 40), Original Client Order ID (Tag 41), Price (Tag 44), Operator ID (Tag 50), Client Sending Time (Tag 52), Side (Tag 54), Instrument ID (Tag 55), Text (Tag 58), Time in Force (Tag 59), Transaction Time (Tag 60), Stop Order Trigger Price (Tag 99), Minimum Quantity (Tag 110), Max Floor (Tag 111), MPID (Tag 115), Operator Location (Tag 142), Execution Type (Tag 150), Leaves Quantity (Tag 151), Secondary Order ID (Tag 198), Customer or Firm (Tag 204), Status (Tag 378), Manual Order Indicator (Tag 1028), Customer Order Handling Instruction (Tag 1031), Display Quantity (Tag 1138), Self Trade Protection (Tag 7928), Display Range (Tag 8020), Replenishment Instruction (Tag 8021), Correction Number (Tag 9021), and CTI Code (Tag 9702). In addition, for executed orders, records must include the execution time of the trade along with all fill information.

The Exchange conducts annual reviews of Clearing Members, OCC Clearing Member, and Onyx Direct Participants to verify compliance with the audit trail and recordkeeping requirements. Each Person with direct access to Onyx shall maintain (or caused to be maintained) and, upon request, produce the audit

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trail records required by this Rule; and each Clearing Member, OCC Clearing Member, or Onyx Direct Participant shall, upon request, obtain and produce the audit trail records required under this Rule for each Person the Clearing Member, OCC Clearing Member, or Onyx Direct Participant has authorized to have direct access to Onyx. Upon request by the Exchange, each Clearing Member, OCC Clearing Member, and Onyx Direct Participant must produce the electronic audit trail in a format prescribed by the Exchange. **Failure to produce the requested information may result in disciplinary action.**

A summary of the fields required by the Exchange is included below as part of this Advisory. All electronic audit trail data provided to the Exchange must include the FIX Order Interface ("FOI") tags or the equivalent Futures Express Interface ("FEI") field names in the column headings.

The electronic audit trail must be maintained for a minimum of five (5) years pursuant to CFTC Regulation 1.31 and 1.35.

Questions regarding this Advisory may be directed to the Market Regulation Department at MIAXFuturesMarketReg@miaxglobal.com.

The information contained in this document is for general purposes only and is not tailored to any specific situations of a recipient of this document. The information contained herein is subject to and is superseded by official MIAX Futures Rules, which can be found at www.miaxglobal.com.

MIAX FIX Order Interface (“FOI”) and MIAX Futures Express Interface (“FEI”) Field Descriptions

Please see the two tables below with the FOI and FEI fields that are to be included in the audit trail format. For full descriptions of each field, refer the FOI and FEI technical specifications available on the [MIAX Futures Website](#).

Table 1: FOI Tags and Descriptions

FOI Tag #	FOI Field Name	FOI Message Name	Origin	Description/Format
1	Account	- New Order – Single - Execution Report - Trade Cancel/Correct	From Firm	Customer ID defined by the firms. Note: For XMGE products, account up to 16 characters will be passed through for clearing. For XMFE products, account up to 10 characters will be passed through for clearing.
11	ClOrdID	- New Order – Single - Order Cancel Request - Order Cancel/Replace Request - Execution Report - Trade Cancel/Correct - Order Cancel Reject - Order Mass Cancel Report	From Firm	Day unique identifier of the order as assigned by the Firm. 20 characters or less. Characters in ASCII range 33-126 are allowed, except for pipe. MIAX Futures Onyx will validate that ClOrdID is unique across all open orders for the Session within a Matching Engine. However, firms are responsible to ensure this uniqueness across all orders sent during the trading day.
17	ExecID	- Execution Report - Trade Cancel/Correct	From Onyx	Unique identifier for each Execution Report message other than Trade Restatement. Uniqueness is guaranteed within a single trading day. Trade Restatement carries the same ExecID of the Original Transaction.
31	LastPx	- Execution Report - Trade Cancel/Correct	From Onyx	Price traded on this fill (zero for non-fills). For ExecRestatementReason = 5: Match price if the order had

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				not been prevented from execution by Self Trade Protection
32	LastShares	• Execution Report • Trade Cancel/Correct	From Onyx	Quantity of contracts traded on this fill (zero for nonfills). For ExecRestatementReason = 5: Number of contracts that would have matched if the order had not been prevented from execution by Self Trade Protection
37	OrderID	• Order Cancel Request • Order Cancel Reject • Execution Report • Trade Cancel/Correct	From Onyx	Unique OrderID, as assigned by MIAX Futures Onyx when order is accepted. Order ID is unique across the exchange across trading days. Set to zero if the order is rejected.
38	OrderQty	• New Order – Single • Order Cancel Request • Order Cancel/Replace Request • Execution Report	From Firm	Number of contracts specified on the order. Has to be a whole number equal to or greater than 1. Maximum Size: Defined in Product Reference Guide and/or configured per session. Copied from order. On restatements (150=D) the OrderQty may be updated due to Self-Trade Protection Decrement
39	OrdStatus	• Order Cancel Reject • Execution Report	From Onyx	Identifies the current status of an order. Valid values: 0 = New 1 = Partially Filled 2 = Filled 4 = Canceled 5 = Replaced 8 = Rejected B = Calculated (Trade Restatement for TAS/BTIC)
40	OrdType	• New Order – Single • Order Cancel/Replace Request • Execution Report	From Firm	Valid values: 1 = Market 2 = Limit 3 = Stop Market 4 = Stop Limit K = Market-Limit Order k = Market Order with Protection

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				s = Stop-Market Order with Protection
41	OrigClOrdID	- Execution Report - Order Cancel Request - Order Cancel Reject - Order Cancel/Replace Request	From Firm	ClOrdID of the targeted order to cancel. OrderID must be set if OrigClOrdID is not. When OrderID is supplied, this tag must not be sent. If both OrderID and OrigClOrdID are present the request will be rejected.
44	Price	- New Order – Single - Order Cancel/Replace Request - Execution Report	From Firm	Limit Price for Limit and Stop-Limit orders. This field is ignored for order types 1 (Market Order), 3 (Stop Market Order), K (Market-Limit Order), k (Market Order with Protection), and s (Stop-Market Order with Protection).
50	SenderSubID (Operator ID)	Standard Header	From Firm	When required, this must contain a 2 to 18 character Operator ID.
52	SendingTime	Standard Header	From Onyx	Format: YYYYMMDD–HH:MM:SS.mmm
54	Side	- New Order – Single - Order Cancel Request - Execution Report - Trade Cancel/Correct	From Firm	Side of order. Valid values: 1 = Buy 2 = Sell
55	Symbol (InstrumentID)	- New Order – Single - Order Cancel Request - Order Cancel/Replace Request - Execution Report - Trade Cancel/Correct	From Firm	Onyx Instrument ID
58	Text	- New Order – Single - Order Cancel Reject - Execution Report	From Onyx	Reject Reports (ExecType = 8) contain text describing error specified in Appendix B found in the MIAX Futures FOI Specs Document. Format:

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		- Trade Cancel/Correct - Order Mass Cancel Report		'Error Code': Description' E.g. 1: Unknown Symbol Unsolicited Canceled (ExecType = 4) will contain a free form human readable reason for the cancel. (See Error Code 0 in Appendix B) Fill or partial fill reports (ExecType=1 or 2) contain text as specified in the New Order Request
59	TimeInForce	- New Order – Single - Order Cancel/Replace Request - Execution Report	From Firm	Specifies how long the order remains in effect. Valid values: 0 = Day 1 = GTC (Good 'til Cancel) 3 = IOC (Immediate or Cancel) 4 = FOK (Fill or Kill) 6 = GTD (Good 'til Date) - requires 432/ExpireDate
60	TransactTime	- New Order – Single - Order Cancel Request - Order Cancel/Replace Request - Execution Report - Trade Cancel/Correct	From Onyx	Time request was initiated/released expressed in UTC (Universal Time Coordinated), also known as GMT. Format: YYYYMMDD–HH:MM:SS.mmm
99	StopPx	- New Order - Single - Order Cancel/Replace Request - Execution Report	From Firm	Trigger Price. Required for OrdType = 3, 4, or s, ignored otherwise
110	MinQty	- New Order - Single - Execution Report	From Firm	Minimum fill quantity. Must be > 1 to be a MinQty order.
111	MaxFloor	- New Order - Single - Order Cancel/Replace Request	From Firm	Number of contracts of the order to display. The balance is reserve. Must be > 0 to be a Reserve Order.

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		Execution Report		0 displays entire quantity (Default). Tag 8020 DisplayRange may be used to specify a range for random replenishment of the Reserve Order
115	OnBehalfOfCompID	Standard Header	From Firm	Required for all application messages from Firm to MIAX Futures Onyx. The MPID of the Firm who owns the order sent in the message.
142	SenderLocationID (Operator Location)	Standard Header	From Firm	When required, this must contain a 2 to 6 character Operator Location. The first two bytes, per ISO 3166-1, identify the country (e.g., US = United States). The next four bytes indicate a comma-delimited state, province, or subdivision code, (e.g. "US,NJ").
150	ExecType	Execution Report	From Onyx	Identifies the type of execution report. Valid values: 0 = New 1 = Partially filled 2 = Filled 4 = Canceled 5 = Replaced 8 = Rejected D = Restated – see also 378/ ExecRestatementReason
151	LeavesQty	Execution Report	From Onyx	Number of open contracts remaining for further execution. If the OrdStatus is Canceled or Rejected (no longer active) then LeavesQty = 0, otherwise LeavesQty = OrderQty - CumQty. Field not present on Trade Restatement (ExecRestatementReason=R).

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198	SecondaryOrderID	Execution Report	From Firm	Secondary Order ID for the display portion of a Reserve Order.
204	CustomerorFirm	- New Order-Single - Order Cancel/Replace Request - Execution Report	From Firm	Valid values: 0 = Customer 1 = Firm
378	ExecRestatementReason	Execution Report	From Onyx	Valid values: 5 = Reduction of OrderQty due to Self Trade Protection 6 = Reserve Order Replenishment (if subscribed) 7 = Stop Order triggered R = LastPx adjusted based on Settlement Price (if subscribed)
1028	ManualOrderIndicator	- New Order - Single - Order Cancel/Replace Request - Execution Report	From Firm	Valid values: Y = Manual N = Automated
1031	CustOrderHandlingInst	- New Order – Single - Order Cancel/Replace Request - Execution Report	From Firm	Valid values: W = Desk Y = Electronic C = Vendor-provided Platform billed by Executing Broker G = Sponsored Access via Exchange API or FIX provided by Executing Broker H = Premium Algorithmic Trading Provider billed by Executing Broker D = Other, including Other-provided Screen
1138	DisplayQty	Execution Report	From Onyx	Display size of the Reserve Order after replenishment.
7928	SelfTradeProtection	- New Order - Single - Execution Report	From Firm	2, 3 or 4 characters (not space separated) 1st character – Self Trade Protection Level F = Firm M = MPID P = Parent Group 2nd character – Self Trade Protection Instruction

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				N = Cancel Newest O = Cancel Oldest B = Cancel Both D = Decrement and Cancel 3rd and 4th characters – Customer specified protection group (optional): Trading Participant specified alphanumeric value consisting of 0-9, A-Z, or a-z. Note that space is not supported and will be rejected if present in the 3rd or 4th position.
8020	DisplayRange	- New Order - Single - Execution Report	From Firm	Used for random replenishment of a Reserve Order. Must be less than MaxFloor. Order will be rejected if this tag is specified without a MaxFloor > 0.
8021	ReplenishInst	- New Order - Single - Execution Report	From Firm	Reserve Order Replenishment Timing Instruction. 0 = Replenish after DisplayQty is exhausted (default when MaxFloor is provided) 1 = Replenish immediately, even after partial fill Must be less than MaxFloor. Order will be rejected if this tag is specified without a MaxFloor > 0.
9021	CorrectionNum	- Execution Report - Trade Cancel/Correct	From Onyx	Will be provided in Trade Restatement if a trade has been corrected before the restatement. Trade correction number. Used to identify version of the trade being corrected or canceled. Increments by 1 for each subsequent correction. New trades resulting from

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				corrections may have a non-zero number.
9702	CtiCode	• New Order - Single • Execution Report • Trade Cancel/Correct	From Firm	For electronic trading CTI codes are defined as: 1 = CTI 1: Transactions initiated and executed by an individual Market Participant for his/her own account, for an account he/she controls, or for an account in which he/she has ownership or financial interest. 2 = CTI 2: Transactions executed for the proprietary account of a Clearing Member. 3 = CTI 3: Transactions where a Market Participant executes for the personal account of another Market Participant, for an account the other Market Participant controls or for an account in which the other Market Participant has ownership or financial interest. 4 = CTI 4: Any transaction not meeting the definition of CTI 1, 2 or 3.

Table 2: FEI Tags and Descriptions

FEI Field Name	FEI Message Name	Origin	Description/Format
Account	New Order Notification	From Firm	Customer ID defined by the firm. Note: For XMGE products, account up to 16 characters will be passed through for clearing. For XMFE products, account up to 10 characters will be passed through for clearing.
Client Order ID	- New Order Request - Modify Order Request - Cancel Order Request - Mass Cancel Request - New Order Response - Modify Order Response - Cancel Order Response - Mass Cancel Response - New Order Notification - Modify Order Notification - Cancel/Reduce Size Order Notification - Simple Execution Notification - Complex Execution Notification	From Firm	Firm specified unique order ID.
Execution ID	Simple Execution Notification	From Onyx	Exchange assigned unique Execution ID.
Complex Trade ID	- Simple Execution Notification - Complex Execution Notification	From Onyx	Exchange assigned unique Complex Trade ID.
Last Price	Cancel/Reduce Size Order Notification	From Onyx	Either the price traded on this fill (zero for non-fills) or the match price if the order had

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	Simple Execution Notification		not been prevented from execution by Self Trade Protection. Price of this execution if it is a new execution. Price after the correction if it is a trade correction. Price of the trade canceled if it is a trade bust.
Last Net Price	Complex Execution Notification	From Onyx	Net Price of this complex execution. Restated net price of the TAS or BTIC trade if it is a Final Trade Price Restatement; see Last Price Restatement field below.
Last Size	- Cancel/Reduce Size Order Notification - Simple Execution Notification - Complex Execution Notification	From Onyx	Either the quantity of contracts traded on this fill (zero for nonfills) or the number of contracts that would have matched if the order had not been prevented from execution by Self Trade Protection.
Order ID	- New Order Notification - New Order Response - Modify Order Notification - Modify Order Response - Cancel Order Request - Cancel Order Response - Cancel/Reduce Size Order Notification - Order Status Update Notification - Reserve Order Replenishment Notification	From Onyx	Exchange assigned unique order ID. Exchange assigned unique Order ID of the Reserve order
Size	- New Order Request - Modify Order Request - New Order Notification - Modify Order Notification	From Firm	Number of contracts specified on the order. Has to be a whole number equal to or greater than 1.

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Message Type	• New Order Request • Modify Order Request • Cancel Order Request • Mass Cancel Request • New Order Response • Modify Order Response • Cancel Order Response • Mass Cancel Response • New Order Notification • Modify Order Notification • Cancel/Reduce Size Order Notification • Simple Execution Notification • Complex Execution Notification • Reserve Order Replenishment Notification	From Onyx	Order Status: SN – System State Notification O1 – New Order Notification MN – Modify Order Notification OS – Order Status Update Notification EN – Simple Execution Notification CN – Complex Execution Notification X1 – Mass Cancel Request RP – Reserve Order Replenishment Notification
Order Type	• New Order Request • Cancel Order Request • Order Status Update Notification • New Order Notification	From Firm	Order Type: ‘1’ – Limit Order ‘2’ – Stop Limit Order ‘3’ – Market Order ‘4’ – Stop Market Order ‘5’ – Market Order with Protection ‘6’ – Market-Limit Order ‘7’ – Stop-Market Order with Protection
Original Client Order ID	• Modify Order Request • Modify Order Response • Cancel Order Request • Cancel Order Response • Modify Order Notification	From Firm	Target Client Order ID that is being modified.

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Price	- New Order Notification - Modify Order Notification	From Firm for Order Types 1-4 From Onyx for Order Types 5-7	Exchange assigned limit price for order types 5 (Market Order with Protection), 6 (Market Limit Order), and 7 (Stop-Market Order with Protection). For all other order types, the field is set to the same value as specified in the New Order Request.
Operator ID	- New Order Request - Modify Order Request - Cancel Order Request - Mass Cancel Request - New Order Notification - Modify Order Notification - Cancel/Reduce Size Order Notification - Simple Execution Notification	From Firm	
Client Send Time	- New Order Request - Modify Order Request - Cancel Order Request - Mass Cancel Request - New Order Notification - Modify Order Notification - Cancel/Reduce Size Order Notification	From Firm	Audit Trail Format: YYYYMMDD–HH:MM:SS.mmm
Order Instructions	- New Order Request - New Order Notification - Simple Execution Notification - Complex Execution Notification	From Firm	Bit 0 – Order Side 0 – Buy 1 – Sell Bit 1 – Reserve Order Replenishment Timing Instruction 0 – Replenished after Display Qty exhaust 1 – Replenish immediately after partial fill

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			Note: Bit 0 is LSB.
Instrument ID	• New Order Request • Modify Order Request • Cancel Order Request • New Order Response • Modify Order Response • Cancel Order Response • New Order Notification • Modify Order Notification • Cancel/Reduce Size Order Notification • Order Status Update Notification • Simple Execution Notification • Complex Execution Notification • Reserve Order Replenishment Notification	From Firm	Onyx Instrument ID As specified in New Order Request
Text Memo	• New Order Request • New Order Notification • Simple Execution Notification	From Firm	
MaxFloor Qty	• New Order Request • Modify Order Request • New Order Notification • Modify Order Notification	From Firm	Number of shares of the order to display. The balance is reserve. Must be > 0 to be a Reserve order. If not a Reserve order, must be set to zero. The following order types cannot be reserve orders: • '2' – Stop Limit Order • '3' – Market Order • '4' – Stop Market Order • '7' – Stop-Market Order with Protection

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Display Range Qty	- New Order Request - New Order Notification	From Firm	Used for random replenishment of Reserve orders. Must be less than MaxFloor Qty. Must be set to zero to disable random replenishment or when the order is not Reserve.
Time in Force (TIF)	- New Order Request - New Order Notification - Order Status Update Notification	From Firm	Time in Force: 'I' – IOC (Immediate or Cancel) 'D' – Day 'F' – FOK (Fill or Kill) 'C' – GTC (Good 'til Cancel) 'X' – GTD (Good 'til Date)
Matching Engine Time	- New Order Response - Modify Order Response - Cancel Order Response - Mass Cancel Response - New Order Notification - Modify Order Notification - Cancel/Reduce Size Order Notification - Order Status Update Notification - Simple Execution Notification - Complex Execution Notification - Reserve Order Replenishment Notification	From Onyx	Audit Trail Format: YYYYMMDD–HH:MM:SS.mmm Time at which this message was generated by the Matching Engine.
Stop Order Trigger Price	- New Order Request - Modify Order Request - New Order Notification - Modify Order Notification	From Firm	Stop Order Trigger Price.
MinQty	- New Order Request - New Order Notification	From Firm	Minimum fill quantity. Must be > 1 to be a MinQty order.

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MPID	• New Order Request • Modify Order Request • Cancel Order Request • Mass Cancel Request • New Order Response • Modify Order Response • Cancel Order Response • Mass Cancel Response • New Order Notification • Modify Order Notification • Cancel/Reduce Size Order Notification • Simple Execution Notification • Complex Execution Notification	From Firm	Five Character Alphanumeric
Operator Location	• New Order Request • Modify Order Request • Cancel Order Request • Mass Cancel Request • New Order Notification • Modify Order Notification • Cancel/Reduce Size Order Notification • Simple Execution Notification	From Firm	The location associated with Operator ID. This field must contain at least 2 characters but the recommended format is as follows: The first two bytes as per ISO 3166-1, identify the country (e.g., US = United States). The next three bytes indicate a comma-delimited state or province code (e.g., IL = Illinois, NJ = New Jersey). Examples: "US,IL" "US,NJ"
Trade Status	• Simple Execution Notification	From Onyx	Possible values: "E" – New Execution "C" – Price/Size Correction "X" – Trade Cancellation (bust)

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Leaves Qty	• Modify Order Response • Modify Order Notification • Cancel/Reduce Size Order Notification	From Onyx	Size of an order that is still open.
Additional Order Indicators	• New Order Request • Modify Order Request • New Order Notification • Modify Order Notification	From Firm	Bit 0 – Customer of Firm Designation 0 – Customer 1 – Firm Bit 1 – Manual Order Indicator 0 – Automated 1 – Manual Bit 2 – Open Close position Indicator 0 – Open 1 – Close Bit 3 – Side Clearing Trade Price Type 0 – Trade Clears at Execution Price 1 – Trade Clears at Alternate Price Note: Bit 0 is LSB.
Status	• Order Status Update Notification • New Order Response • Modify Order Response • Cancel Order Response • Mass Cancel Response • Strategy Creation Response	From Onyx	Order status update ‘S’ – Stop order triggered “ ” – Successful. “A” – Duplicate Client Order ID “B” – Not in Live Order Window “C” – Invalid Order Type ‘D’ – Reserved for future use “E” – Invalid Customer Order Handling Instruction “F” – Invalid Time In Force or its use “G” – Invalid Self Trade Protection Level “H” – Invalid Self Trade Protection Instruction “I” – Invalid MPID “K” – Invalid use Self Trade Protection Instruction “L” – Invalid Self Trade Protection Group “M” – Invalid use Self Trade Protection Group “N” – Invalid for current Trading status “O” – Invalid Client Order ID “P” – Invalid Price “Q” – Invalid Size “R” – Invalid use Minimum Qty “S” – Invalid Instrument ID “U” – Invalid use Order Type

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			“V” – Invalid Purge Group “W” – Invalid Order Expiry Date or its use “Y” – Blocked by user Mass Cancel “a” – Blocked by MFP/HelpDesk Mass Cancel “b” – Blocked by CRM “c” – Invalid Account “d” – Invalid Trading Collar “g” – Invalid Operator ID “h” – Invalid Operator Location “i” – Invalid CTI Code “j” – Invalid Text Memo “k” – Blocked by Drop Copy ACOD/ACOSF event “l” – Daily Trading Limit breach “m” – Trading Collar Protection “n” – Duplicate Order Protection “o” – Order Type Restriction “p” – Restriction for current trading session “q” – Product Restriction “r” – Customer order for Regulated Account “s” – Firm order for Segregated Account “t” – Order not allowed when ETH Clearing not enabled “u” – No Mbbo for Market Order with Protection or Market-Limit Order “v” – Invalid Display Range Qty “w” – Invalid MaxFloor Qty “x” – Invalid use of Reserve Order Replenishment Timing Instruction “y” – Invalid Order Type for Reserve Order “Z” – Undefined reason “*” – Downgraded from older version
Customer Order Handling Instruction	• New Order Request • Modify Order Request • New Order Notification • Modify Order Notification	From Firm	“W” – Desk “Y” – Electronic “C” – Vendor-Provided Platform Billed by Executing Broker “G” – Sponsored Access via Exchange API or FIX provided by Executing Broker “H” – Premium Algorithmic Trading Provider Billed by Executing Broker “D” – Other
Self Trade Protection	• New Order Request • New Order Notification • Modify Order Notification	From Firm	Bit 0-2 – Self Trade Protection Level 0 – Self Trade Protection Disabled 1 – Firm 2 – MPID 3 – Parent Group Bit 3-5 – Self Trade Protection Instruction 0 – Not Applicable

			1 - Cancel Newest 2 - Cancel Oldest 3 - Cancel Both 4 - Decrement and Cancel
CTI Code	- New Order Request - New Order Notification - Simple Execution Notification	From Firm	For electronic trading CTI codes are defined as: 1 = CTI 1: Transactions initiated and executed by an individual Market Participant for his/her own account, for an account he/she controls, or for an account in which he/she has ownership or financial interest. 2 = CTI 2: Transactions executed for the proprietary account of a Clearing Member. 3 = CTI 3: Transactions where a Market Participant executes for the personal account of another Market Participant, for an account the other Market Participant controls or for an account in which the other Market Participant has ownership or financial interest. 4 = CTI 4: Any transaction not meeting the definition of CTI 1, 2 or 3.
Secondary Order ID	- Reserve Order Replenishment Notification - Simple Execution Notification - Complex Execution Notification	From Onyx	Secondary Order ID used to publish the display portion of the Reserve order on Onyx DOM feed. Applicable to Reserve orders. Secondary Order ID used on MIAx Onyx DOM feed for the executed display portion of the Reserve order. Set to zero for non-Reserve orders or if the execution is for the non-display portion of the Reserve order.
Display Qty	Reserve Order Replenishment Notification	From Onyx	Display size of the Reserve order after replenishment
Last Price Restatement	- Simple Execution Notification - Complex Execution Notification	From Onyx	Final Trade Price Restatement for a TAS or BTIC Trade: - Y - Final Trade Price for TAS/BTIC Trade - N - Not applicable NOTE: when set to 'Y', Last Price has been updated with a final trade price.

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Revision History

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	Date	Name	Version	Description
1.	May 12, 2025	MIAX Futures	1.0	Initial version
2.	June 24, 2025	MIAX Futures	1.1	Updated name of Tag 38 to "Order Quantity" from "Trade Status"; added "Order Status" as Tag 39; Updated name of Tag 150 to "Execution Type" from "Trade Status"; added Customer Order Handling Instruction (Tag 1031).
3.	August 22, 2025	MIAX Futures	1.2	Updated name of Tag 54 to "Side" from "Order Instructions" and Tag 204 to "Customer or Firm" from "Customer Order Handling Instructions". Capitalized "Code" in Tag 9702 name.
4.	April 14, 2026	MIAX Futures	2.0	Updated Rules and guidance for implementation of financial futures. Grammatical updates throughout. Added "Origin" column and "Description/Format" column.
5.	July 28, 2026	MIAX Futures	2.1	Updated rule text and interface tables for additional fields related to reserve orders

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