

# **Order Routing Field Mapping between CAT and Exchanges**

**11/08/2022**

**Version 2.5**

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## Revision Summary

Version	Publish Date	Description
1.0	12/6/2018	Initial Publication
1.1	2/11/2020	Updated guidance for populating senderIMID as per CAT Alert 2018-003 Cboe: Updates for population of session
1.2	3/24/2020	Nasdaq Family: Options Exchanges Added MIAX Family: <ul style="list-style-type: none"> <li>• Updates for population of session for MIAMI and PEARL</li> <li>• MIAX EMRLD added</li> <li>• MEI and MEO interfaces added</li> </ul>
1.3	4/7/2020	Republished as "Order Routing Field Correlations between CAT and Exchanges" BOX: Updates for population of session
1.4	4/21/2020	Retitled as "Order Routing Field Mapping between CAT and Exchanges" Updated Intro language. Removed Section 2 and incorporated information into Section 2.6.3 of the IM Technical Specifications. MIAX Family: <ul style="list-style-type: none"> <li>• Updates for population of session for MIAMI and PEARL</li> </ul>
1.5	6/2/2020	Cboe Family: <ul style="list-style-type: none"> <li>• Added Sections 2.1 and 2.2 to differentiate between requirements for Cboe Equities Exchanges and Options Exchanges, and include updates for population of senderIMID for Cboe Options Exchanges.</li> </ul>
1.6	8/4/2020	MIAX Family: <ul style="list-style-type: none"> <li>• Updates for population of senderIMID field</li> </ul>
1.7	8/31/20	IEX: <ul style="list-style-type: none"> <li>• Updates for population of senderIMID field</li> </ul>
1.8	10/6/2020	Added LTSE, MEMX, and MIAX PEARL Equities exchanges. BOX: Updates for population of routedOrderID for SAIL users.
1.9	10/28/2020	MIAX PEARL Equities: <ul style="list-style-type: none"> <li>• Updates for population of senderIMID field</li> </ul>
2.0	12/15/2020	Nasdaq Options Markets: <ul style="list-style-type: none"> <li>• Updates for population of senderIMID field</li> </ul>
2.1	2/5/2021	Nasdaq Stock Market, Nasdaq BX, and Nasdaq PSX <ul style="list-style-type: none"> <li>• Updates for population of routedOrderID and session</li> </ul>
2.2	3/19/2021	NYSE: <ul style="list-style-type: none"> <li>• Updates for NYSE Pillar Gateway Migration</li> </ul>
2.3	9/7/2021	NYSE: <ul style="list-style-type: none"> <li>• Updates for ARCAOP Pillar Migration</li> </ul>
2.4	10/14/2021	NYSE: <ul style="list-style-type: none"> <li>• Minor update to ARCAOP Pillar Migration date</li> </ul>
2.5	11/08/2022	Nasdaq Stock Market, Nasdaq BX and Nasdaq PSX: <ul style="list-style-type: none"> <li>• Updates for population of routedOrderID for OUCH 5 protocol users</li> </ul>

# Summary

This document is a supplement to the [CAT Reporting Technical Specifications for Industry Members](#) (“IM Tech Spec”) and provides guidance outlining how Industry Members should populate each field required for Exchange Route Matching. As described in Section 2.6.3 of the IM Tech Spec, the *Consolidated Audit Trail (CAT)* system must be able to link all CAT Order Route events to the related exchange orders. This document provides clarification on the values to be provided based on the exchange the order is routed to, describing specific guidance related to each field required for Exchange Route Matching.

## Order routing fields – CAT/Exchange correlations

The sections below contain a field-by-field mapping for each exchange outlining how CAT Order Route event fields should be populated based on each related exchange protocol.

### 1. BOX

The table below describes the specific fields CAT uses to match Order Route events to the related Order Accept events reported by **BOX** options exchange.

CAT Report Field	BOX-related field
senderIMID	Market Participant Identifier (MPID)
routedOrderID	FIX: CIOrdID (Tag 11) SAIL: Owner Data field. If the pound (“#”) sign is present in this field, then submit the first 20 characters before the pound (“#”) sign. If the pound (“#”) sign is not present in this field, submit the first 20 characters. Exclude the pound (“#”) sign from the submission. Refer to the SAIL Documentation available at <a href="https://boxoptions.com/technology/trading-interface-specifications/">https://boxoptions.com/technology/trading-interface-specifications/</a> .
symbol	Symbol
eventTimestamp	Trade Date
session <sup>1</sup>	FIX: • SenderCompID (Tag 49) SAIL: • “User Id” tag from the “TC-User Connection” Message sent by the Participant at the beginning of the day

<sup>1</sup> Beginning September 9, 2020, **session** must be populated as specified.

## 2. Cboe Exchange Family

### 2.1. Cboe Equities Exchanges

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by the Cboe Equities Exchanges (Cboe BYX Equities Exchange, Cboe BZX Equities Exchange, Cboe EDGA Equities Exchange, and Cboe EDGX Equities Exchange).

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	Market Participant Identifier (MPID) ClearingFirm (Tag 439) · FIX Users (except Service Bureau) OnBehalfofCompld (Tag 115) · FIX Users (Service Bureau) ClearingFirm · BOE Users
<b>routedOrderID</b>	CIOrdID (Tag 11) · FIX Users CIOrdID · BOE Users
<b>symbol</b>	Symbol
<b>eventTimestamp</b>	Trade Date
<b>session<sup>2</sup></b>	Concatenation of fields for a total session field length of 8 as follows:  <SenderCompID(Tag 49)><SenderSubId (Tag 50)> · FIX Users < Username><SessionSubId> · BOE Users

### 2.2. Cboe Options Exchanges

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by the Cboe Options Exchanges (Cboe BZX Options Exchange, Cboe Options Exchange, Cboe C2 Options Exchange, and Cboe EDGX Options Exchange).

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	Routing Broker EFID (if present): RoutingFirmID (Tag 7933) · FIX Users RoutingFirmID · BOE Users  When Routing Broker EFID not present, then Executing Firm ID (EFID) OnBehalfOfCompID (Tag 115) · FIX Users ClearingFirm · BOE Users
<b>routedOrderID</b>	CIOrdID (Tag 11) · FIX Users CIOrdID · BOE Users
<b>symbol</b>	Symbol
<b>eventTimestamp</b>	Trade Date
<b>session</b>	Concatenation of fields for a total session field length of 8 as follows:  <SenderCompID(Tag 49)><SenderSubid (Tag 50)> · FIX Users < Username><SessionSubld> · BOE Users

### 3. Investors Exchange (IEX)

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by IEX.

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	OnBehalfOfCompID (Tag 115)
<b>routedOrderID</b>	CIOrdID (Tag 11)
<b>symbol</b>	Symbol
<b>eventTimestamp</b>	Trade Date
<b>session</b>	SenderCompID (Tag 49)

## 4. Miami Exchange Family<sup>3</sup>

### 4.1. Miami Securities Exchange and MIAX Emerald

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by the MIAMI International Exchange and MIAX Emerald.

CAT Report Field	Exchange-Related Field								
<b>senderIMID</b>	FIX Order <ul style="list-style-type: none"> <li>SenderSubID FIX (Tag 50)</li> </ul> eQuote (MEI) <ul style="list-style-type: none"> <li>MPID</li> </ul>								
<b>routedOrderID</b>	FIX Order: <ul style="list-style-type: none"> <li>ClOrdID (Tag 11)</li> </ul> eQuote (MEI): <ul style="list-style-type: none"> <li>Client message Id</li> </ul> <table border="1"> <tr> <td>Client Message ID</td> <td>4</td> <td>BinaryU</td> <td>Unique Message ID assigned by the firm</td> </tr> </table>	Client Message ID	4	BinaryU	Unique Message ID assigned by the firm				
Client Message ID	4	BinaryU	Unique Message ID assigned by the firm						
<b>symbol</b>	Symbol –Simple Option Order FIX (Tags 55, 200, 201, 202 and 205) Multi-leg Option Order FIX (Tags 600, 608, 611 and 612)								
<b>eventTimestamp</b>	Trade Date								
<b>session</b>	FIX Order: <ul style="list-style-type: none"> <li>SenderCompID (Tag 49)</li> </ul> eQuote (MEI Interface): <ul style="list-style-type: none"> <li>Username + “-“ + Computer ID. (see “TCP Session Management (SesM) Protocol Specification” section 3.2.1 Login Request)</li> </ul> <table border="1"> <tr> <td>Username</td> <td>5</td> <td>Alphanumeric</td> <td>Username issued by MIAX during initial setup</td> </tr> <tr> <td>Computer ID</td> <td>8</td> <td>Alphanumeric</td> <td>ID issued by MIAX during initial setup</td> </tr> </table>	Username	5	Alphanumeric	Username issued by MIAX during initial setup	Computer ID	8	Alphanumeric	ID issued by MIAX during initial setup
Username	5	Alphanumeric	Username issued by MIAX during initial setup						
Computer ID	8	Alphanumeric	ID issued by MIAX during initial setup						

<sup>3</sup> The updated guidance for populating the **route link key** for routes to an exchange in the MIAMI Exchange family is effective September 9, 2020.

## 4.2. MIAX PEARL Options

CAT Report Field	Exchange-Related Field									
<b>senderIMID</b>	<p>FIX Order</p> <ul style="list-style-type: none"> <li>• SenderSubID FIX (Tag 50)</li> </ul> <p>Binary Order (MEO)</p> <ul style="list-style-type: none"> <li>• MPID</li> </ul>									
<b>routedOrderID</b>	<p>FIX Order:</p> <ul style="list-style-type: none"> <li>• ClOrdID (Tag 11)</li> </ul> <p>Binary Order (MEO Interface) (unassigned Market Maker Order or Non Market Maker Order or other than day TIF):</p> <ul style="list-style-type: none"> <li>• If Auto Replaced: Client message Id + '-' + "Client Order ID"</li> </ul> <table border="1" data-bbox="570 785 1206 827"> <tr> <td>Client Message ID</td> <td>4</td> <td>BinaryU</td> <td>Unique Message ID assigned by the firm</td> </tr> </table> <table border="1" data-bbox="578 894 1289 1131"> <tr> <td>Client Order ID</td> <td>4</td> <td>N</td> <td>BinaryU</td> <td> <p>Client order ID.</p> <p>If an Order with this Client Order ID found for the same product, MPID and side, this Order replaces the resting Order. If not, this order is treated as new Order.</p> <p>For each Product and side, an MPID can have a maximum of N orders with unique client order ID that they can keep replacing. 0 results in a reject.</p> <p>Maximum value (N) defined in Regulatory circular.</p> </td> </tr> </table> <ul style="list-style-type: none"> <li>• Otherwise: Client Order Id</li> </ul>	Client Message ID	4	BinaryU	Unique Message ID assigned by the firm	Client Order ID	4	N	BinaryU	<p>Client order ID.</p> <p>If an Order with this Client Order ID found for the same product, MPID and side, this Order replaces the resting Order. If not, this order is treated as new Order.</p> <p>For each Product and side, an MPID can have a maximum of N orders with unique client order ID that they can keep replacing. 0 results in a reject.</p> <p>Maximum value (N) defined in Regulatory circular.</p>
Client Message ID	4	BinaryU	Unique Message ID assigned by the firm							
Client Order ID	4	N	BinaryU	<p>Client order ID.</p> <p>If an Order with this Client Order ID found for the same product, MPID and side, this Order replaces the resting Order. If not, this order is treated as new Order.</p> <p>For each Product and side, an MPID can have a maximum of N orders with unique client order ID that they can keep replacing. 0 results in a reject.</p> <p>Maximum value (N) defined in Regulatory circular.</p>						
<b>symbol</b>	Symbol –Simple Option Order FIX (Tags 55, 200, 201, 202 and 205)									
<b>eventTimestamp</b>	Trade Date									
<b>session</b>	<p>FIX Order:</p> <ul style="list-style-type: none"> <li>• SenderCompID (Tag 49)</li> </ul> <p>Binary Order (MEO Interface):</p> <ul style="list-style-type: none"> <li>• Username + "-" + Computer ID. (see "TCP Session Management (SesM) Protocol Specification" section 3.2.1 Login Request)</li> </ul> <table border="1" data-bbox="570 1648 1300 1696"> <tr> <td>Username</td> <td>5</td> <td>Alphanumeric</td> <td>Username issued by MIAX during initial setup</td> </tr> <tr> <td>Computer ID</td> <td>8</td> <td>Alphanumeric</td> <td>ID issued by MIAX during initial setup</td> </tr> </table>	Username	5	Alphanumeric	Username issued by MIAX during initial setup	Computer ID	8	Alphanumeric	ID issued by MIAX during initial setup	
Username	5	Alphanumeric	Username issued by MIAX during initial setup							
Computer ID	8	Alphanumeric	ID issued by MIAX during initial setup							



### 4.3. MIAX PEARL Equities

CAT Report Field	Exchange-Related Field									
<b>senderIMID</b>	<p>FIX Order</p> <ul style="list-style-type: none"> <li>OnBehalfofCompID FIX (Tag 115)</li> </ul> <p>Binary Order (MEO)</p> <ul style="list-style-type: none"> <li>MPID</li> </ul>									
<b>routedOrderID</b>	<p>FIX Order:</p> <ul style="list-style-type: none"> <li>ClOrdID (Tag 11)</li> </ul> <p>Binary Order (MEO Interface) (unassigned Market Maker Order or Non Market Maker Order or other than day TIF):</p> <ul style="list-style-type: none"> <li>If Auto Replaced: Client message Id + '-' + "Client Order ID"</li> </ul> <table border="1"> <tr> <td>Client Message ID</td> <td>4</td> <td>BinaryU</td> <td>Unique Message ID assigned by the firm</td> </tr> </table> <table border="1"> <tr> <td>Client Order ID</td> <td>4</td> <td>N</td> <td>BinaryU</td> <td> <p>Client order ID.</p> <p>If an Order with this Client Order ID found for the same product, MPID and side, this Order replaces the resting Order. If not, this order is treated as new Order.</p> <p>For each Product and side, an MPID can have a maximum of N orders with unique client order ID that they can keep replacing. 0 results in a reject.</p> <p>Maximum value (N) defined in Regulatory circular.</p> </td> </tr> </table> <ul style="list-style-type: none"> <li>Otherwise: Client Order Id</li> </ul>	Client Message ID	4	BinaryU	Unique Message ID assigned by the firm	Client Order ID	4	N	BinaryU	<p>Client order ID.</p> <p>If an Order with this Client Order ID found for the same product, MPID and side, this Order replaces the resting Order. If not, this order is treated as new Order.</p> <p>For each Product and side, an MPID can have a maximum of N orders with unique client order ID that they can keep replacing. 0 results in a reject.</p> <p>Maximum value (N) defined in Regulatory circular.</p>
Client Message ID	4	BinaryU	Unique Message ID assigned by the firm							
Client Order ID	4	N	BinaryU	<p>Client order ID.</p> <p>If an Order with this Client Order ID found for the same product, MPID and side, this Order replaces the resting Order. If not, this order is treated as new Order.</p> <p>For each Product and side, an MPID can have a maximum of N orders with unique client order ID that they can keep replacing. 0 results in a reject.</p> <p>Maximum value (N) defined in Regulatory circular.</p>						
<b>symbol</b>	Symbol –Simple Option Order FIX (Tags 55, 200, 201, 202 and 205)									
<b>eventTimestamp</b>	Trade Date									
<b>session</b>	<p>FIX Order:</p> <ul style="list-style-type: none"> <li>SenderCompID (Tag 49)</li> </ul> <p>Binary Order (MEO Interface):</p> <ul style="list-style-type: none"> <li>Username + Computer ID. (see "TCP Session Management (SesM) Protocol Specification" section 3.2.1 Login Request)</li> </ul> <table border="1"> <tr> <td>Username</td> <td>5</td> <td>Alphanumeric</td> <td>Username issued by MIAX during initial setup</td> </tr> <tr> <td>Computer ID</td> <td>8</td> <td>Alphanumeric</td> <td>ID issued by MIAX during initial setup</td> </tr> </table>	Username	5	Alphanumeric	Username issued by MIAX during initial setup	Computer ID	8	Alphanumeric	ID issued by MIAX during initial setup	
Username	5	Alphanumeric	Username issued by MIAX during initial setup							
Computer ID	8	Alphanumeric	ID issued by MIAX during initial setup							

## 5. Nasdaq Exchange Family

### 5.1. Nasdaq Stock Market, Nasdaq BX and Nasdaq PSX

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept Events reported by The Nasdaq Stock Market, Nasdaq BX and Nasdaq PSX.

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	Market Participant Identifier (MPID)
<b>routedOrderID</b>	ClOrdID (Tag 11) <ul style="list-style-type: none"> <li>· FIX Users</li> </ul> Order Token/Client Order ID <ul style="list-style-type: none"> <li>· RASHport Users</li> </ul> Order Token <ul style="list-style-type: none"> <li>· DROP Users</li> <li>· OUCH 4 Users</li> </ul> ClOrdID <ul style="list-style-type: none"> <li>· OUCH 5 Users</li> </ul> User Order ID <ul style="list-style-type: none"> <li>· QIX Users (Order Entry Message)</li> </ul> Client Tracking Number appended with 'B' or 'S' or side value if using short sale <ul style="list-style-type: none"> <li>· QIX Users (Quote Update Message)</li> </ul> UID <ul style="list-style-type: none"> <li>· CTCI Users</li> </ul>
<b>symbol</b>	Symbol <ul style="list-style-type: none"> <li>· FIX Users</li> </ul> Stock <ul style="list-style-type: none"> <li>· DROP Users</li> <li>· OUCH</li> </ul> Stock Symbol <ul style="list-style-type: none"> <li>· RASHport</li> </ul>
<b>eventTimestamp</b>	Trade Date

CAT Report Field	Exchange-Related Field
<b>session</b>	FIXPortAcct · FIX Users OUCHAcct · NASDAQ INET OUCH QIXAcct · NASDAQ QIX (Order Entry Message) "\$AQR01" · NASDAQ QIX (Quote Update Message) RASHAcct · RASHPort Source · OUCH Drop Deliver ToSubID (Tag 128) · FIX/RASH Drop

## 5.2. Nasdaq Options Markets

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by The Nasdaq Options Markets (ISE, GEMX, MRX, PHLX, NOM, and NOBO).

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	<b>ISE, GEMX, MRX</b> Session Default Firm – Non-service Bureau SenderSubID (Tag 50) – Service Bureau · FIX Users Firm ID · OTTO Badge · SQF · QUO Firm Mnemonic · Precise <b>PHLX, NOM, NOBO</b> ClientID (Tag 109). If not supplied, then SenderSubID (Tag 50). Service Bureau firms can work with Nasdaq to setup a default senderIMID value per session. · FIX Users Badge · SQF · QUO
<b>routedOrderID</b>	ClOrdID (Tag 11) · FIX Users Order Token · OTTO 1.4.d ClOrdID · OTTO 2.1.* Message-ID

CAT Report Field	Exchange-Related Field
	<ul style="list-style-type: none"> <li>· SQF</li> </ul> (Since Message-ID is binary, it will be converted to HEX)
<b>symbol / optionID</b>	Symbol/OptionID <ul style="list-style-type: none"> <li>· FIX Users</li> <li>· SQF Users (for Sweep Orders)</li> <li>· OTTO</li> </ul>
<b>eventTimestamp</b>	Trade Date
<b>session</b>	SenderCompID (Tag 49) <ul style="list-style-type: none"> <li>· FIX Users</li> </ul> OTTO ACCT (Login-id from the URL) <ul style="list-style-type: none"> <li>· OTTO 1.4.d and OTTO 2.1 Users</li> </ul> SQF ACCT (Login-id from the URL) <ul style="list-style-type: none"> <li>· SQF Users</li> </ul>

## 6. ICE Exchange Family

### 6.1. New York Stock Exchange (NYSE) prior to migration to the Pillar Gateway

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by the New York Stock Exchange, prior to migration to the Pillar gateway.

CAT Report Field	NYSE-Related Field
<b>senderIMID</b>	Entering Firm Trading Mnemonic
<b>routedOrderID</b>	ClOrdID (Tag 11) <ul style="list-style-type: none"> <li>· NYSE FIX Users</li> </ul> ClientOrderID <ul style="list-style-type: none"> <li>· NYSE UTP Direct Users</li> </ul>
<b>symbol</b>	Symbol <ul style="list-style-type: none"> <li>· NYSE UTP Direct Users</li> <li>· NYSE FIX Users</li> </ul>
<b>eventTimestamp</b>	Trade Date
<b>session</b>	SenderCompID (Tag 49) <ul style="list-style-type: none"> <li>· NYSE UTP Direct Users</li> <li>· NYSE FIX Users</li> </ul>

## 6.2. NYSE, NYSE Arca, NYSE American, NYSE Chicago, NYSE National Stock Exchange, and NYSE Arca Options (NYSE Pillar Gateway)

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept Event in NYSE, NYSE American, NYSE Chicago, NYSE National, NYSE Arca, and NYSE Arca Options, received via the NYSE Pillar Gateway.

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	Firm Identifier – MPID
<b>routedOrderID</b>	CIOrdID (Tag 11) · FIX Users · Binary Users
<b>symbol</b>	Symbol
<b>eventTimestamp</b>	Trade Date
<b>session</b>	SenderCompID · FIX Users Username · Binary Users

## 6.3. NYSE American Options and NYSE Arca Options prior to the migration to Pillar

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by the NYSE American Options and the NYSE Arca Options exchanges prior to the Pillar migration.

CAT Report Field	Exchange-Related Field
<b>senderIMID</b>	Options Trading Permit ID (TPID) NYSE American Options NYSE Arca Options
<b>routedOrderID</b>	CIOrdID (Tag 11) · FIX Users Client Order ID · Arca Direct Users
<b>symbol</b>	Symbol · FIX Users · Arca Direct Users
<b>eventTimestamp</b>	Trade Date
<b>session</b>	SenderCompID (Tag 49) · FIX Users Login ID · ARCA Direct GCCD

NYSE Arca Options scheduled to begin Pillar migration in February, 2022.

### 7. Long-Term Stock Exchange (LTSE)

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by **LTSE**.

CAT Report Field	Exchange-Related Field
senderIMID	Market Participant Identifier (MPID)
routedOrderID	ClOrdID (Tag 11)
symbol	Symbol
eventTimestamp	Trade Date
session	SenderCompID (Tag 49)

### 8. Members Exchange (MEMX)

The below matrix describes the specific fields CAT uses to match CAT Order Route events to the related Order Accept events reported by **MEMX**.

CAT Report Field	Exchange-Related Field
senderIMID	Market Participant Identifier (MPID)
routedOrderID	ClOrdID (Tag 11) · FIX Users ClOrdID · SBE
symbol	Symbol
eventTimestamp	Trade Date
session	SenderCompID (Tag 49) · FIX Users Account Name · SBE