



**SOLA® Access Information Language**  
**SAIL Specifications Guide**  
**for BOX**

***Confidential***

SAIL-BX-001E  
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SAIL-BX-001E, Document Version 2.12

## Document History

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VERSION	DATE	CHANGE DESCRIPTION
1.0	2007-02-28	<ul style="list-style-type: none"> <li>First approved version for distribution</li> </ul>
1.1	2007-03-36	<ul style="list-style-type: none"> <li>Auction Entry message: For the "Verb" attribute, change from "O" (optional) to "R" (required) in the Req/Opt column.</li> <li>Update Order Entry message: in "Linked Quote or Order" attribute, change "C" (conditional) to "O" (Optional)</li> <li>Modified definition of Inactivity Interval for TC message, and added new Error Message codes</li> </ul>
1.2	2007-07-09	<ul style="list-style-type: none"> <li>Modifications to messages TH, TI, and OI, update to Linked Order ID</li> <li>Modification to Order Type (removed) and Status (updated) fields definition</li> <li>Modifications to message OM - include list of values for field Duration Type, removed values list for Quantity Term.</li> <li>Change GMT to Local time</li> </ul>
1.3	2007-07-20	<ul style="list-style-type: none"> <li>Message KG - Quote Quantity and Quote Price fields changed from Mandatory to Optional.</li> </ul>
1.4	2007-09-25	<ul style="list-style-type: none"> <li>New Error Message - Code 0509 added to Chapter 6 - Error Codes</li> </ul>
1.5	2009-06-15	<ul style="list-style-type: none"> <li>Updates to section 4.3 Owner Data</li> <li>Updates to Special Trade Indicators</li> <li>Update to Section 7 Field Types, Group State, Account Type, and Liquidity Status fields               <ul style="list-style-type: none"> <li>New field 'Liquidity Status' inserted in NT Execution Message to determine if the trade adds or removes liquidity. (APPW)</li> <li>New Error Codes 1004, 9001, 9002, 2003, 9007 and 9008 to Chapter 6, page 40</li> <li>Added IB ISO (IML Handling = 4) to Chapter 7, page 42</li> </ul> </li> </ul>
1.6	2010-11-01	<ul style="list-style-type: none"> <li>Addition of a new field 'PostTradingInstruction', and the modification of the field 'ClearingOperationMode' to support Give-Ups and Allocations:</li> <li>Removed OLA Principal order and OLA Satisfaction order messaging.</li> <li>Add MIP fields to OA and OD messages.</li> <li>Add Session Order value for field types Duration Type and Status</li> </ul>

VERSION	DATE	CHANGE DESCRIPTION
1.7	2011-07-25	<p>Order Quantity Modification Management</p> <ul style="list-style-type: none"> <li>Modified Quantity Sign field in OM - Order Modification.</li> <li>Modification made in Chapter 7 - Field types for OM message Quantity Sign field</li> <li>Modification of text 'mantis' to 'mantissa' in field Price in Chapter 7 Field Types</li> </ul> <p>Following changes applicable to SAIL Protocol versions <b>A2 &amp; A5</b> only.</p> <ul style="list-style-type: none"> <li>Updates include New Solicitation and Facilitation Auctions for Block Trades.</li> <li>New messages added: XI - Improvement Order Cancellation message, KY - Auction or Improvement Cancellation Acknowledgement</li> <li>Messages modified: OA - Auction Entry fields modified (IML Handling, Special Price Term, Quantity Term, Additional Quantity, Additional Price), NT - Execution Notice fields modified (Special Trade Indicator, Trade Type), OI - Improvement Entry - same impact as NT message</li> </ul>
	2011-10-13	<p>The following changes are applicable to SAIL Protocol version <b>A5</b> only.</p> <ul style="list-style-type: none"> <li>Updates include new Market Maker Protections mechanisms and Wash Sale Prevention features.</li> <li>Messages added: NE - Excluded Instrument Notice</li> <li>Messages modified: BD - Bulk Quote Data - new fields added, NP - Cancellation of all Quotes Notice - new field values added, NZ - Order Cancellation Notice - new field values added.</li> </ul>
1.8	2012-02-27	<ul style="list-style-type: none"> <li>Removed all references to protocol version A2 and A5. Added protocol A6.</li> <li>Added Customer Cross Order.</li> <li>Added Status value for an order eliminated due to out of limits order entry price.</li> <li>Replaced all references to OLA by IML.</li> <li>Complex Order: Added the following message types: ON: New Complex Order Instrument, KN: New Complex Order Instrument Acknowledgment, NL: Leg Execution Notice, NY: Leg Execution Cancellation Notice.</li> <li>Updated valid values for the field 'Open/Close'</li> </ul>
1.9	2012-05-30	<ul style="list-style-type: none"> <li>In Chapter 7: Field Types, for the field 'Creation Status', added details when value is equal to "M".</li> <li>Re-worded section 2.2.1 Message Format and modified Example in Chapter 2: Overview</li> </ul>
2.0	2012-11-10	<ul style="list-style-type: none"> <li>2.2.1: Message Format, Replace reference "business message" to "SAIL message".</li> <li>5.39: Leg Execution Notice, Fields 'Reference ID' and 'Original Reference ID' always blank.</li> <li>Chapter 6: Error Codes, Update list of error codes.</li> <li>Chapter 7: Field Types, Update description of field 'Special Price Term'.</li> </ul>

VERSION	DATE	CHANGE DESCRIPTION
2.1	2013-10-08	<ul style="list-style-type: none"> <li>5.3 - OI: Improvement Order Entry, Replaced unused 'Linked' fields by a filler</li> <li>5.10 Quote Notice: Updated message title and description.</li> <li>5.13 - BD: Bulk Quote Date, Added links to new Field Types for fields 'Calculation Time Interval', 'Maximum Total Volume', 'Maximum Total Value', 'Maximum Delta Volume' and 'Maximum Delta Value'.</li> <li>6 - Error Codes: Removed error related to Linked Orders.</li> <li>7 - Field Types, Removed unused 'Linked' fields, Removed BOX-TOP value in 'Price Type' field, Added value '6' in field 'IML Handling' for Complex Order exposure.</li> </ul>
2.2	2014-09-03	<ul style="list-style-type: none"> <li>Removal of message NM: Market Maker Prime Notice</li> <li>Change of text in message XI: Improvement Order Cancellation</li> <li>Introduced new field name: 'Counterpart Account Type' in messages NT: Execution Notice and NL: Leg Execution Notice</li> </ul>
2.3	2015-04-17	<ul style="list-style-type: none"> <li>Section 5: Business Messages <ul style="list-style-type: none"> <li>Added Special Price Term to 5.1 - OE: Order Entry message, Corrected filler order</li> <li>Added Special Price Term to 5.2 - OM: Order Modification message, Corrected filler order</li> </ul> </li> <li>Section 7: Field Types</li> <li>Added Special Price Term to Field Types table</li> </ul>
2.4	2016-03-28	<ul style="list-style-type: none"> <li>Section 7: Added B value to Field Type Status</li> </ul>
2.5	2016-06-13	<p>Implementation of PTV features in SAIL Protocol version B1:</p> <ul style="list-style-type: none"> <li>Section 5: New business messages: MU TraderStatus, GZ User Global Cancellation, Modified message BD BulkQuoteData</li> <li>Section 6: Modified Field Calculation Time Interval, Cancellation Type, Quote Cancel Reason, Status, Trader Lock Status</li> <li>Section 7: New error codes for PTV (3096, 3097)</li> <li>General: Re-ordering of messages, values in alphabetical order</li> </ul>
2.6	2016-09-09	<ul style="list-style-type: none"> <li>Section 5: New message NQ: Quality Market Maker Notification</li> <li>Section 5.32: Modified Post Trading Instructions field (O/R)</li> <li>Section 7: New error code (0407)</li> </ul>
2.7	2016-11-07	Floor Trade - Section 7: Added 2 error codes (0123 = Floor Trade Not Allowed, 0124 = InsufficientSurrender quantity)
2.8	2017-06-13	<p>Section 6 – Field Types</p> <ul style="list-style-type: none"> <li>Special Price Term: Value X updated to include Qualified Contingent Cross Order</li> <li>Special Trade Indicator: Value D added : Customer Cross Order or Qualified Contingent Cross Order</li> </ul>
2.9	2017-11-24	<ul style="list-style-type: none"> <li>Section 1: Protocol version B3</li> <li>Section 5.22: NL Message (Leg Number length 2 bytes)</li> <li>Section 5.32: Update to Quantity field for IOI</li> <li>Section 5.35: ON message, new field "Enabled"</li> <li>Section 6: Special Price Term updated for IOI, Protocol, Leg updated</li> </ul>

VERSION	DATE	CHANGE DESCRIPTION
2.10	2018-04-09	<ul style="list-style-type: none"> <li>General editing (new logo, added 2.1 List of Messages, moved Section 4 - Data Type to Section 2.3 – Data Type)</li> <li>Section 5: Duration Type (Value A= AuctionOrKill),</li> </ul>
2.11	2018-06-27	<ul style="list-style-type: none"> <li>New Sections: 4.13 KT Complex Order Auction Acknowledgement and 4.37 OT Complex Order Auction Entry</li> </ul>
2.12	2018-09-11	<ul style="list-style-type: none"> <li>Protocol version B3 on front cover</li> <li>Section 2.3.3: Additional restrictions</li> <li>Sections 4.10, 4.36, 4.37 (Messages KN, ON, OT): Updates of Number of Legs</li> <li>Section 5: Leg number field updated to 12, Open/Close and Post-Trading Instruction, IML Handling, Special Trade Indicator fields updated</li> <li>Section 6: New error code (0310)</li> </ul>

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## Section 1 Introduction

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The SAIL Specifications Guide for BOX is a technical document that describes the BOX SOLA<sup>®</sup> Access Information Language (SAIL) Protocol developed by the Technology division of the Montréal Exchange Inc., a member of the TMX Group Inc.

The SAIL Specifications Guide for BOX explains the protocol required by Participants in order to trade on a SOLA<sup>®</sup> platform.

SAIL is a daily protocol, meaning that all counters and sequence IDs are reset everyday.

The current Protocol version is B3.

### 1.1 Scope

The scope of this document is to provide a detailed description of the BOX SOLA Access Information Language (SAIL). This includes but is not limited to:

- Message Format and Delivery
- Session Protocol
- Application Messages which include:
  - Technical Messages
  - Business Messages

This document provides information and does not in any way provide engineering or other professional services.

### 1.2 Audience

This document targets business, programmer, and network analysts who are responsible for determining the technical solutions needed to interface with SAIL.

### 1.3 Related Documents

- BOX SAIL Business Design Guide

### 1.4 BOX Contact

Market Operation Center Support / Technical Help Desk

Toll Free: 1-866-768- 8845

[boxmoc@boxoptions.com](mailto:boxmoc@boxoptions.com)

## Section 2 Overview

The SAIL protocol is defined at two levels: technical and business. The technical level deals with the delivery of data while the business level defines business-related data content.

### 2.1 List of Messages

This table contains the SAIL messages supported by BOX.

TYPE	SAIL MESSAGES
Technical	TC: User Connection TD: User Disconnection TA: Disconnection Instruction TH: Heartbeat (Question) TI: Heartbeat (Response) TO: Out of Sequence TE: Technical Error Notice TM: Disconnection Instruction Acknowledgement TK: Connection Acknowledgement TL: Disconnection Acknowledgement TT: end of Transmission
Business	BD: Bulk Quote Data ER: Error Notice GC: Global Cancellation GZ: User Global Cancellation KD: Bulk Quote Data Acknowledgement KE: Order Acknowledgement KG: Global Cancellation Confirmation KI: Improvement Order Acknowledgement KM: Order Modification Acknowledgement KN: New Complex Order Instrument Acknowledgement KO: Standard Acknowledgement KQ: Directed/Routed Order Rejection and Quote Resubmission Message KT: Complex Order Auction Acknowledgement KY: Auction or Improvement Cancellation Acknowledgement KZ: Order Cancellation Acknowledgement LA: Bulk Quote Acknowledgement MU: TraderStatus NC: Directed Order Cancellation Notice ND: Directed Order Notice

TYPE	SAIL MESSAGES
	<p>NE: Excluded Instrument Notice</p> <p>NG: Group State Change</p> <p>NI: Instrument State Change</p> <p>NL: Leg Execution Notice</p> <p>NP: Cancellation of All Quotes Notices</p> <p>NQ: Quality Market Maker Notification</p> <p>NT: Execution Notice</p> <p>NU: Quote Notice</p> <p>NX: Execution Cancellation Notice</p> <p>NY: Leg Execution Cancellation Notice</p> <p>NZ: Order Cancellation Notice (by system)</p> <p>OA: Auction Entry</p> <p>OD: Directed Order Acceptation</p> <p>OE: Order Entry</p> <p>OI: Improvement Order Entry</p> <p>OM: Order Modification</p> <p>ON: New Complex Order Instrument</p> <p>OT: Complex Order Auction Entry</p> <p>Q&lt;i&gt;: Bulk Quote</p> <p>RE: Executing Participant Connection</p> <p>RF: Executing Participant Disconnection</p> <p>RP: Market Maker Protection Subscription</p> <p>RQ: Request for Quote</p> <p>XE: Order Cancellation</p> <p>XI: Improvement Order Cancellation</p>

## 2.2 Message Format and Delivery

The following sections summarize general specifications for constructing and transmitting BOX SOLA Access Information Language protocol messages.

### 2.2.1 Message Format

All technical and business SAIL messages start with 4 bytes of Endian coded data indicating message length. An End of Text (ETX) character is added after the last character of each business message, which may be padded with spaces of up to three bytes for alignment, making the total length of each message a multiple of four bytes.

Example:

<0021> <sup>1</sup>	<xxxxxxxxxxxxxxxxxxxxxxxx> <sup>2</sup>	<ETX> <sup>3</sup>	< > <sup>4</sup>
---------------------	---	--------------------	------------------

1. 4 bytes indicating length of business message. Codification little-Endian, right justified, left-filled with zeroes.
2. 21 bytes, business message body.
3. ETX (End of Text) character having a value of binary 3.
4. 2 bytes (spaces for alignment).

**Note:** In the above example, the total length of the message is 28 (4 + 21 + 1 + 2).

### 2.2.2 Required Fields

Each message within the protocol is comprised of fields, which are either:

- R = Required
- O = Optional
- C = Conditional (fields that are required based on the presence, or value of other fields).

Systems should be designed to operate only when the required and conditionally required fields are present.

## 2.3 Data Type

This section defines the SAIL Data Type messages.

### 2.3.1 Incoming Messages Header

Size: 24

This is the header required on all incoming Participant business messages.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type	Message Type	R
User Time (Local)	Time	R
Trader ID	Trader ID	R
User Sequence ID	User Sequence ID	R

### 2.3.2 Outgoing Messages Header

Size: 24

This is the header included on all outgoing Exchange messages.

FIELD NAME	FIELD TYPE	REQ/ OPT
Message Type	Message Type	R
Message Timestamp (Local) (Trading Engine Time)	Time	R
User Sequence ID <sup>1</sup>	User Sequence ID	O
Exchange Message ID	Exchange Message ID	O
Gap Sequence ID	Numeric (2)	R

1. In the Outgoing Messages Header, the User Sequence ID is set for acknowledgement only, and contains the identical User Sequence ID number present in the incoming message or it contains zeroes. Unsolicited messages (trade notice, group state change, instrument state change, etc.) are set to zeroes.

### 2.3.3 Owner Data

Size: 50

This is not a message. It describes the format of an optional order reference for the Participant that may appear within certain messages.

When this field is not empty, the **Ownerdata** information received ~~is validated to ensure the data contains~~ must contain at most one # (pound sign) character: any information preceeding the pound sign (#) is the Client Order Id. Any information after the pound sign (#) is free text. If no pound (#) sign is found in the **Ownerdata** information received, the information is assumed to be the **ClientOrderId**.

This field should not contain the following ascii characters:

- % (percent sign), comma or semi-colon, "" (double quote), '|' (Pipe sign)
- ascii characters in the decimal code ranges between 0 to 31 and 127 and up

The following characters are accepted but are not transferred to OCC on trade submissions: > (greater than), < (less than), ' (single quote), ~~" (double quote)~~ or & (ampersand).

If the validation fails, an error message is sent to the participant.

FIELD NAME	FIELD TYPE	REQ/OPT
Memo	Memo	R

### 2.3.4 Clearing Data

Size: 20

This is not a message. It describes the format of the Participant's clearing data that must appear on specified messages. This data is used for clearing purposes.

FIELD NAME	FIELD TYPE	REQ/OPT
Clearing Instruction	Clearing Instruction	R
Account Type	AccountType	R
Open/Close	Open/Close	R
Hedge/Spec	Hedge/Spec	R
Clearing Operation Mode	Clearing Operation Mode	R
Clearing Destination	Firm ID	C

1. The firm specified in the Firm ID field clears the trade if Clearing Operation Mode is set.

## Section 3    Technical Messages

This section defines the SAIL Technical Messages.

### 3.1    TC: User Connection

Incoming

Trader Connection is the first message to be sent by the Participant at the beginning of the day.

FIELD NAME		FIELD TYPE	REQ/OPT
Message Type: TC		Message Type	R
Protocol Version.		Protocol	R
User ID		User ID	R
Password (MD5 Encryption)		Password	R
Session ID		Session ID	O
Time (HHMMSS)		Time	R
Exchange Message ID		Exchange Message ID	O
Inactivity Interval		Inactivity Interval	O
Number of Message types to be received <sup>1</sup>		Numeric (2)	R
(1 to 99 occurrences)	Message types to be received <sup>2</sup>	Message Type	R

1. Indicates the number of message types (specified further in the message) the Participant wants to receive.
2. List of message types requested by the Participant.  
The following messages are sent to the Participant even if they are not part of the list: ER, TE, TO, TH, and TT.



### 3.2 TD: User Disconnection

Incoming

The User Disconnection message is sent by the Participant to the Exchange when it wants to disconnect from the system.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TD	Message Type	R
User ID	User ID	R
Session ID	Session ID	O

### 3.3 TA: Disconnection Instruction

Incoming

This message is used by a Participant to indicate the instruction(s) to execute if the connection ends.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TA	Message Type	R
Number of Instructions present in the message	Numeric (2)	R
1 to 99 occurrences	Trader ID	R
	Disconnection Instruction. <b>Note:</b> Cancel quotes only. Q: QuotesOnly	CancellationType R
	Active: Y (ON) N (OFF)	YesNoFlag R

### 3.4 TH: Heartbeat (Question)

Outgoing

This message is sent by the exchange to the participant at the beginning of every Heartbeat period. For each connection, participants are allowed to send a limited number of messages per second.

This message indicates the first message to be processed in the Heartbeat period. If there is no pending message from the participant, the field User Sequence ID represents the next expected User Sequence ID.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TH	Message Type	R
User Sequence ID (first User Sequence ID for next/current Heartbeat period)	User Sequence ID	R
Last Exchange Message ID (sent to Participant)	Exchange Message ID	R
Time (Local)	Time	R

### 3.5 TI: Heartbeat (Response)

Incoming

A *Heartbeat* message sent by the exchange to the participant at the beginning of every Heartbeat period must receive a response from the participant application within “n” units specified in the *Connection* message. The response can be any message. If a *Heartbeat* is not responded to, the participant is considered as not connected and the disconnection instructions specified in the Disconnection Instructions message ([TA: Disconnection Instruction](#)) are executed.

Message TI is used to respond to a *Heartbeat* (TH message) if no other message needs to be sent. Message is identical to the received Heartbeat (TH) message.

This message has the same number of bytes and format as TH: Heartbeat (Question).

Message type must be TI, while other values can be the same as last received TH message.

### 3.6 TO: Out of Sequence

Outgoing

This message is sent by the exchange when the User Sequence ID in the message is out of sequence. Participant must reconnect.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TO	Message Type	R
Received User Sequence ID	User Sequence ID	R
Expected Last User Sequence ID	User Sequence ID	R
Message Time (Local)	Time	R

### 3.7 TE: Technical Error Notice

Outgoing

The message is sent by the exchange when a technical error is encountered in the message sent by the Participant.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TE	Message Type	R
Received Message Type <sup>1</sup>	Message Type	R
Preceding User Sequence ID received (zeroes if none)	User Sequence ID	R
Error Code	Error Code	R
Error Position	Numeric (4)	R
Error Message	String (100)	R
Start of message in error	String (100)	R

1. Received Message type in Error

### 3.8 TM: Disconnection Instruction Acknowledgement

Outgoing

This message is sent to acknowledge receipt of [TA: Disconnection Instruction](#) message.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TK, TM, TL	Message Type	R
Current Session ID	Session ID	R
Last User Sequence ID received	User Sequence ID	O

### 3.9 TK: Connection Acknowledgement

Outgoing

This message is sent to acknowledge receipt of a [TC: User Connection](#) message.

This message has the same number of bytes and format as the [TM: Disconnection Instruction Acknowledgement](#) message.

### 3.10 TL: Disconnection Acknowledgement

Outgoing

This message is sent to acknowledge receipt of a [TD: User Disconnection](#) message.

This message has the same number of bytes and format as the [TM: Disconnection Instruction Acknowledgement](#) message.

### 3.11 TT: End of Transmission

Outgoing

This message is sent to indicate that the session's transmission is completed. Participant is disconnected.

FIELD NAME	FIELD TYPE	REQ/OPT
Message Type: TT	Message Type	R
Ended Session ID	Session ID	R
Last User Sequence ID received If no business message has been received on this connection, this field is equal to zeroes.	User Sequence ID	O
Time	Time	R

## Section 4 Business Messages

This section defines the SAIL Business messages. The messages are listed in alphabetical order.

**Note:** In the following business messages, the fields marked as 'Fillers' are reserved for MX usage.

### 4.1 BD: Bulk Quote Data

Incoming

This message contains specific protection data and trader's data valid for further Bulk Quotes. A new BD message replaces previously entered data.

FIELD NAME	FIELD TYPE	REQ/OPT
Incoming Messages Header (Message Type: BD)		R
Group	Group ID	R
Clearing Data		R
Owner Data		R
Filler (must be blank)	String (2)	R
Filler (must be blank)	String (8)	R
Filler (must be blank)	String (2)	R
Calculation Time Interval	Calculation Time Interval	O
Maximum Total Volume	Numeric (8)	O
Maximum Total Value	Numeric (8)	O
Maximum Delta Volume	Numeric (8)	O
Maximum Delta Value	Numeric (8)	O
Percent Of Quote	Numeric (8)	O

## 4.2 ER: Error Notice

Outgoing

This message is an error notification. It is sent in response to a message from the Participant when the system cannot process it.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: ER)		R
Error Code	Error Code	R
Error Description	String (100)	R

## 4.3 GC: Global Cancellation

Incoming

This message is sent by the Participant when he wants to cancel his quotes or orders.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: GC)		R
Group	Group ID	R
Type of Cancellation Q: QuotesOnly	CancellationType	R

## 4.4 GZ: User Global Cancellation

Incoming

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: GZ)		R
Group	Group ID	O
Instrument	Instrument ID	O
Type of Cancellation	CancellationType	R
AccountTypeFilter	String (8)	O

## 4.5 KD: Bulk Quote Data Acknowledgement

Outgoing

This message is used to acknowledge a [BD: Bulk Quote Data](#) message.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KD)		R
Group	Group ID	R
Trader ID	Trader ID	R
Quote ID (identifies trader's quote on this group)	Order ID	R

## 4.6 KE: Order Acknowledgement

Outgoing

This message is used to acknowledge an [OE: Order Entry](#) message.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KE)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Order ID	Order ID	R
Status	Status	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Assigned Price	Assigned Price	R
Clearing Data		R
Owner Data		R
Original Order ID	Original Order ID	R
Filler	Numeric (6)	R

## 4.7 KG: Global Cancellation Confirmation

Outgoing

This message is used to acknowledge a [GC: Global Cancellation](#) message and is sent to a Participant when his quotes/orders have been cancelled.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KG)		R
Group	Group ID	R
Trader ID	Trader ID	R
Type of Cancellation Only 'Q' = QuotesOnly can be returned.	CancellationType	R

## 4.8 KI: Improvement Order Acknowledgment

Outgoing

This message is used to acknowledge an OI: Improvement Order Entry message or an OA: Auction Entry message.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KI)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Order ID	Order ID	R
Status	Status	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Assigned Price	Assigned Price	R
Clearing Data		R
Owner Data		R
Original Order ID	Original Order ID	R
Auction ID (only if message type is KI or else zeroes)	Auction ID	R



## 4.9 KM: Order Modification Acknowledgement

Outgoing

This message is used to acknowledge an [OM: Order Modification](#) message. This message has the same format as the [KE: Order Acknowledgement](#) message.

## 4.10 KN: New Complex Order Instrument Acknowledgement

Outgoing

This message is used to acknowledge the creation of a new Complex Order instrument as requested via a SAIL ON message.

FIELD NAME		FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KN)			R
Strategy Group		Group ID	R
Strategy Instrument ID		Instrument ID	R
Creation Status		String (1)	R
Number of Legs		Numeric (2)	R
2 to 12 occurrences	Leg Group	Group ID	R
	Leg Instrument ID	Instrument ID	R
	Leg Verb	Verb	R
	Filler (must be spaces)	String (1)	R
	Leg Quantity (ratio)	Quantity	R

## 4.11 KO: Standard Acknowledgement

Outgoing

This message is sent as an acknowledgement for the following messages:

- RE: Executing Participant Connection
- RF: Executing Participant Disconnection
- RQ: Request for Quote
- RP: Market Maker Protection Subscription

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KO)		R
Trader ID	Trader ID	R
Original Message Type (RE, RF, RQ, RP)	Message Type	R

## 4.12 KQ: Directed/Routed Order Rejection and Quote Resubmission Message

Incoming

This message is sent by an executing Participant to reject a DO.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: KQ)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Order ID	Order ID	R
Rejection Code	Rejection Code	R
Quote Quantity	Quantity	O
Quote Price	Price	O

## 4.13 KT: Complex Order Auction Acknowledgement

Outgoing

This message is used to acknowledge an OT: Strategy Auction Entry message.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KT)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Order ID	Order ID	R
Status	Status	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Assigned Price	Assigned Price	R
Clearing Data		R
Owner Data		R
Original Order ID	Original Order ID	R
Auction ID	Auction ID	R

## 4.14 KY: Auction or Improvement Cancellation Acknowledgement

Outgoing

This message is used to acknowledge an [XI: Improvement Order Cancellation](#) message pertaining to Solicitation Facilitation.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KY)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Order ID	Order ID	R

FIELD NAME	FIELD TYPE	REQ/ OPT
Status	Status	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Assigned Price	Assigned Price	R
Clearing Data		R
Owner Data		R
Original Order ID	Original Order ID	R
Auction ID (only if message type is KI or else zeroes)	Auction ID	R

## 4.15 KZ: Order Cancellation Acknowledgement

Outgoing

This message is used to acknowledge an [XE: Order Cancellation](#) message.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: KZ)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Order ID	Order ID	R
Status	Status	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Assigned Price	Assigned Price	R
Clearing Data		R
Owner Data		R
Original Order ID	Original Order ID	R
Auction ID (only if message type is KI or else zeroes)	Auction ID	R

## 4.16 LA: Bulk Quote Acknowledgement

Outgoing

This message acknowledges the receipt of a Bulk Quote message.

FIELD NAME		FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: LA)			R
Group		Group ID	R
Quote ID (identifies trader's quote on this group)		Order ID	R
Number of Quotes in Error		Numeric (3)	R
1 to 280 occurrences	Quote number	Numeric (3)	R
	Error code	Error Code	R

**Note:** Exchange Message ID = Blanks (not included in retransmitted messages).

## 4.17 MU: TraderStatus

Outgoing

This message indicates the the status of a trader.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: MU)		R
Trader ID	Trader ID	R
TraderLockOut	Trader Lock Status	R
RiskTeamLockOut	Trader Lock Status	R

## 4.18 NC: Directed Order Cancellation Notice

Incoming

This message is sent to an Executing Participant.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: NC)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Price	Price	R
Referenced Order ID	Order ID	R

## 4.19 ND: Directed Order Notice

Incoming

This message is a Directed Order notice sent to an Executing Participant.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: ND)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Price	Price	R
Referenced Order ID	Order ID	R

## 4.20 NE: Excluded Instrument Notice

Outgoing

This message is sent when a Participant is receiving a “NP” SAIL message with the “Type of Cancellation” set to “W” (Cancel Pending). The “NE” message is indicating which instruments still have active quotes in the book that are pending to be cancelled. When the quotes on these instruments are later cancelled, another “NP” message is issued to notify the Participant.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: NE)		R
Group	Group ID	R
Filler	String (2)	R
Trader ID	Trader ID	R
Filler	String (2)	R
NbOfInstruments	Numeric (4)	R
1 to 9999 occurrences: Instrument	Instrument ID	R

## 4.21 NG: Group State Change

Outgoing

This message indicates a Group state change.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: NG)		R
Group	Group ID	R
Group State	Group State	R

## 4.22 NI: Instrument State Change

Outgoing

This message indicates an Instrument state change.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: NI)		R
Group	Group ID	R
Instrument	Instrument ID	R
Instrument State	Instrument State	R



## 4.23 NL: Leg Execution Notice

### Outgoing

This message reports the execution for a leg of Complex Order instrument trade.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: NL)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Reference ID	Order ID	R
Verb (Side)	Verb	R
Quantity Traded	Quantity	O
Trade Price	Price	R
Time Trade HHMMSS	Time	R
Clearing Data		R
Owner Data		R
Special Trade Indicator	Special Trade Indicator	O
Price Type	Price Type	R
Trade Type	Trade Type	R
Auction ID	Auction ID	R
Trade Number	Trade Number	R
Trade Memo	String (50)	O
Original Reference ID	Order ID	R
ID Code for the Counterpart Participant	Firm ID	R
Liquidity Status	Liquidity Status	R
Strategy Group	Group ID	O
Strategy Instrument ID	Instrument ID	O

Strategy Verb (side)	Verb	O
Strategy Trade Number	Trade Number	O
Leg Number	Leg Number (2)	O
Counterpart Account Type	Account Type	R

## 4.24 NP: Cancellation of All Quotes Notices

### Outgoing

This message is an advice sent to a Participant when his quotes have been cancelled (either by the system or at his request).

FIELD NAME	FIELD TYPE	REQ / OPT
Outgoing Messages Header (Message Type: NP)		R
Group <sup>1</sup>	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Quote Cancel Reason	Quote Cancel Reason	R

1. Indicates the group of instruments for which the quotes have been cancelled.

## 4.25 NQ: Quality Market Maker Notification

Outgoing

This message notifies Market Makers of their qualified quantity for the QMM Step at the end of the auction.

FIELD NAME	FIELD TYPE	REQ / OPT
Outgoing Messages Header (Message Type: NQ)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Auction ID	Auction ID	R
Verb	Verb	R
Auction Quantity	Quantity	R
Auction Price	Price	R
Quote Quantity	Quantity	R
Quote Price	Price	R
Qualified Quantity	Quantity	R

## 4.26 NT: Execution Notice

Outgoing

This message is an execution notice for a trade.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: NT)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Reference ID (Order ID or Quote ID)	Order ID	R
Verb (Side)	Verb	R
Quantity Traded	Quantity	R
Trade Price	Price	R
Time of the Trade HHMMSS	Time	R
Clearing Data		R
Owner Data		R
Special Trade Indicator	Special Trade Indicator	R
Price Type	Price Type	R
Trade Type	Trade Type	R
Auction ID	Auction ID	O
Trade Number	Trade Number	R
Trade Memo	Trade Memo	R
Original Reference ID	Original Reference ID	R
ID Code for the Counterpart Participant	Firm ID	R
Liquidity Status	Liquidity Status	R
Counterpart Account Type	Account Type	O

## 4.27 NU: Quote Notice

Outgoing

This message is sent by the trading engine when a quote is shelved or unshelved when an Executing Participant rejects to start an auction when receiving a Directed Order.

FIELD NAME	FIELD TYPE	REQ/ OPT
Outgoing Messages Header (Message Type: NU)		R
Group	Group ID	R
Instrument	Instrument ID	R
Trader ID	Trader ID	R
Reference ID (Quote or Order ID)	Order ID	R
Verb (Side)	Verb	R
Order Type	Order Type	R
Action	Action	R
New quantity	Quantity	R
New price	Price	R
Previous quantity	Quantity	R
Previous price	Price	R
Auction ID	Auction ID	R
Original Reference ID (Quote or Order ID)	Order ID	R

## 4.28 NX: Execution Cancellation Notice

Outgoing

This message is an execution cancellation notice, and has the same number of bytes and format as the [NT: Execution Notice](#) message.

## 4.29 NY: Leg Execution Cancellation Notice

Outgoing

This message reports the execution cancellation notice for a leg of the strategy trade.

This message has the same number of bytes and format as the [NL: Leg Execution Notice](#) message.

## 4.30 NZ: Order Cancellation Notice (by system)

Outgoing

This message is used when an order is cancelled by Market Operation or by the system (expiration).

This message has the same number of bytes and format as the [KZ: Order Cancellation Acknowledgement](#) message.

## 4.31 OA: Auction Entry

Incoming

This message is used to start a guaranteed auction (PIP).

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: OA)		R
Group	Group ID	R
Instrument	Instrument ID	R
Verb (Side)	Verb	R
Quantity	Quantity	R
Price	Price	R
Buying Clearing Data		R
Selling Clearing Data		R
Buying Owner Data		⓪ R
Selling Owner Data		⓪ R
IML Handling	IML Handling	O
Special Price Term	Special Price Term	R

FIELD NAME	FIELD TYPE	REQ/ OPT
Additional Price <sup>1</sup>	Price	O
Quantity Term	Quantity Term	O
Additional Quantity	Additional Quantity	O
Buying Post Trading Instruction	Post Trade Instruction	O
Selling Post Trading Instruction	Post Trade Instruction	O

1. Must be left empty for Solicitation and Facilitation

## 4.32 OD: Directed Order Acceptation

Incoming

This message is sent by an Executing Participant to accept a Directed Order.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: OD)		R
Group	Group ID	R
Instrument	Instrument ID	R
Referenced Order ID	Order ID	R
Auction Starting Price	Price	R
Clearing Data (dealer)		R
Owner Data (dealer)		R
Additional Price	Price	O
Quantity Term	Quantity Term	O
Post Trading Instruction	Post Trade Instruction	O
Additional Quantity	Quantity	O

<sup>1</sup>Must be left empty (blank) for Solicitation and Facilitation.

## 4.33 OE: Order Entry

### Incoming

This message is used to enter a regular order in the system.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: OE)		R
Group	Group ID	R
Instrument	Instrument ID	R
Price Type	Price Type	R
Verb (Side)	Verb	R
Quantity	Quantity (Optional when IOI)	C
Price	Price	C
Special Price Term	Special Price Term	R
Filler (must be blank)	String (10)	R
Quantity Term	Quantity Term	O
Additional Quantity	Additional Quantity	C
Duration Type	Duration Type	R
GTD Date <sup>1</sup>	Date	C
Executing Participant <sup>2</sup>	Firm ID	C
IML Handling	IML Handling	R
Clearing Data		R
Owner Data		R
Post Trading Instructions	Post Trading Instructions	O

1. Must be present if Duration Type is D. Represents the order's last active day.
2. Contains the digit portion of the Participant ID of the Participant to whom the Directed/Routed Order is submitted. If not used, it must be set to blanks.



## 4.34 **OI: Improvement Order Entry**

Incoming

This message contains information related to an Improvement during an Auction only. It is used to either enter or modify an Improvement order.

FIELD NAME	FIELD TYPE	REQ/OPT
Incoming Messages Header (Message Type: OI)		R
Group	Group ID	R
Instrument	Instrument ID	R
Verb (Side)	Verb	R
Quantity Sign	Quantity Sign	R
Quantity	Quantity	R
Price	Price	R
Auction ID	Auction ID	R
Filler	String (17)	R
Clearing Data		R
Owner Data		R

## 4.35 **OM: Order Modification**

Incoming

This message is used to modify a regular order entered through an [OE: Order Entry](#) message. The modified order has to be booked.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: OM)		R
Group	Group ID	R
Instrument	Instrument ID	R
Price Type	Price Type	R
Verb (Side)	Verb	R
Quantity Sign	Quantity Sign	R

FIELD NAME	FIELD TYPE	REQ/ OPT
Quantity	Quantity	R
Price	Price	C
Special Price Term	Special Price Term	R
Filler (must be blank)	String (10)	R
Filler (must be blank)	String (1)	R
Filler (must be blank)	String (8)	R
Duration Type	Duration Type	R
GTD Date <sup>1</sup>	Date	C
Firm ID	Firm ID	R
IML Handling	IML Handling	R
Modified Order ID <sup>2</sup>	Order ID	R
Clearing Data		R
Owner Data		R
Post Trading Instruction	Post Trading Instruction	O

1. Must be present if Duration Type is D. Represents the order's last active day.
2. Order ID of the order being modified.

## 4.36 ON: New Complex Order Instrument

Incoming

This message is sent when a Participant is requesting to create a new Complex Order instrument.

FIELD NAME		FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: ON)			R
Enabled (Y (Yes) N (No))		YesNoFlag	R
Number of Legs		Numeric (2)	R
2 to 12 occurrences	Leg Group	Group ID	R
	Leg Instrument ID	Instrument ID	R
	Leg Verb	Verb	R
	Filler (must be spaces)	String (1)	R
	Leg Quantity (ratio)	Quantity	R

## 4.37 OT: Complex Order Auction Entry

Incoming

This message contains information related to a strategy auction entry with leg prices.

FIELD NAME		FIELD TYPE	REQ/OPT
Incoming Messages Header (Message Type: OT)			R
Group		Group ID	R
Instrument		Instrument ID	R
Verb (Side)		Verb	R
Quantity		Quantity	R
Price		Price	O
Buying Clearing Data			R
Selling Clearing Data			R
Buying Owner Data			R
Selling Owner Data			R
IML Handling		IML Handling	R
Special Price Term		Special Price Term	R
Additional Price		Price	R
QuantityTerm		Quantity Sign	R
Additional Quantity		Quantity	R
Buying Post Trading Instruction		Post Trading Instruction	R
Selling Post Trading Instruction		Post Trading Instruction	R
NbLegs		Numeric (2)	R
2 to 12 occurrences	LegGroup	Group ID	R
	LegInstrument	Instrument ID	R
	TradeLegPrice	Price	R

## 4.38 Q<i>: Bulk Quote

Incoming

This is a set of messages to enter Bulk Quotes. The second letter of Message Type indicates the quantity and price formats.

<i> = A to P

X <sup>Y</sup> 1	2	4	6	8
4	A	E	I	M
6	B	F	J	N
8	C	G	K	O
10	D	H	L	P

1. X = Price size (including format indicator) and Y = Quantity size

Example: A QC Message is formatted with Price 8 bytes in length and Quantity 2 bytes in length.

FIELD NAME		FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: Q<i>)			R
Group		Group ID	R
Quote ID (identifies trader's quote on this group)		Order ID	R
Number of Quotes		Numeric (3)	R
1 to 280 occurrences	Group	Group ID	R
	Instrument	Instrument ID	R
	Verb (Side)	Verb	R
	Quantity Sign (+ - =)	Quantity Sign	R
	Quantity	Quantity	O
	Price	Price	O

## 4.39 RE: Executing Participant Connection

Incoming

This message is sent when an Executing Participant wants to connect, i.e., is ready to receive a Directed Order.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: RE)		R

## 4.40 RF: Executing Participant Disconnection

Incoming

This message is sent when an Executing Participant wants to disconnect, i.e., does not want to receive Directed Orders anymore.

This message has the same number of bytes and format as the [RE: Executing Participant Connection](#) message.

## 4.41 RP: Market Maker Protection Subscription

Incoming

This message has two purposes:

- Specify to the BOX trading system what kind of Market Maker Protection should be enabled (standard or advanced)
- Reactivate quoting when Advanced Market Maker Protection has been triggered

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: RP)		R
Group	Group ID	R
Protection Type (Advanced/Normal)	Protection Code	R

## 4.42 RQ: Request for Quote

Incoming

This message is sent by the Participant to broadcast a Request for Quote message to other Participants.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: RQ)		R
Group	Group ID	R
Instrument	Instrument ID	R
Quantity <sup>1</sup>	Quantity	O

## 4.43 XE: Order Cancellation

Incoming

This message is sent by the Participant to cancel an order present in the book.

FIELD NAME	FIELD TYPE	REQ/ OPT
Incoming Messages Header (Message Type: XE)		R
Group	Group ID	R
Instrument	Instrument ID	R
Cancelled Order ID	Order ID	R

## 4.44 XI: Improvement Order Cancellation

Incoming

This message is sent by the Participant to cancel an existing Improvement Order for an Auction.

This message has the same number of bytes and format as the [XE: Order Cancellation](#) message.

## Section 5 Field Types

The following table displays the format, length, description, and values list for each field type (listed in alphabetical order).

In the Format column, note that: A = Alphabetic, N = Numeric, X = Alphanumeric.

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Account Type</b>	X	1	<ul style="list-style-type: none"> <li>6: Public Customer</li> <li>7: Broker Dealer</li> <li>8: Market Maker</li> <li>T: Professional Customer</li> <li>W: Broker Dealer cleared as Customer</li> <li>X: Away Market Maker</li> </ul>
<b>Action</b>	A	1	<ul style="list-style-type: none"> <li>Q: Quantity Update</li> <li>S: Shelved</li> <li>U: Un-shelved</li> </ul>
<b>Additional Quantity</b>	N	8	<ul style="list-style-type: none"> <li>For OA Auction Entry, indicates the number of contracts the InitO is willing to surrender.</li> <li>For Solicitation, it is used when the field Quantity Term is set to 'B'. It must contain a quantity less than or equal to the quantity being auctioned.</li> <li>For Facilitation, or if not used, it must be blank.</li> </ul>
<b>Assigned Price</b>	X	10	Price assigned by the Trading System. Refer to Price for format details.
<b>Auction ID</b>	N	6	Identifies the number of an auction (Improvement Phase). It is a sequential number which is unique per Instrument and per Trading Day. Current Auction identifier if the trade occurred during an auction.
<b>Calculation Time Interval</b>	N	8	Expressed in number of milliseconds
<b>Cancellation Type</b>	A	1	Type of cancellation <ul style="list-style-type: none"> <li>A: All</li> <li>L: Locked</li> <li>O: OrdersOnly</li> <li>Q: QuotesOnly</li> </ul>



FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Clearing Instruction</b>	X	12	Client Account Number Following characters are accepted but are not transferred to OCC on trade submissions: > (greater than), < (less than), ' (single quote), " (double quote), & (ampersand)
<b>Creation Status</b>	A	1	Indicates the status of the Complex Order Instrument request <ul style="list-style-type: none"> <li>C: Created as specified in the ON: New Complex Order Instrument request.</li> <li>M: Created but with modifications. 2 scenarios exist: <ol style="list-style-type: none"> <li>1) Complex Order Instruments are created using the smallest ratio unit possible. Ex: Request to create the instrument 10A+20B will result in a Complex Order instrument of 1A+2B being created.</li> <li>2) The same Complex Order instrument exists but in reverse order. Ex.: Client requests to create the instrument A-B will result in the instrument B-A if this one already exists. The order verb will need to be reversed as well (Buy A-B is equal to Sell B-A).</li> </ol> </li> </ul>
<b>Clearing Operation Mode</b>			Indicates the pre-posting action to be taken by the clearing system when a trade has occurred. When this field is filled, the field 'Clearing Destination' must also be filled. <ul style="list-style-type: none"> <li>Space: No clearing operation</li> <li>C: CMTA (Clearing Member Trading Agreement), firm will be defined in the Clearing Destination field</li> <li>G: Give-Up Firm will be defined in the Clearing Destination field</li> <li>I: Both CMTA and Give-Up firms will be defined in the Post Trading Instruction field</li> </ul>
<b>Date</b>	X	8	Year, Month and Day (YYYYMMDD)
<b>Duration Type</b>	A	1	<ul style="list-style-type: none"> <li>A: Auction or Kill</li> <li>D: Order is Valid until GTD date (GTD)</li> <li>E: Immediate order, cannot be booked (FAK)</li> <li>F: Valid until instrument expiration (GTC)</li> <li>J: Valid for the current Day only (Day)</li> <li>W: Valid for the current session order only</li> </ul>
<b>Enum</b>	X	1	List of values (see message field detail)
<b>Error Code</b>	N	4	Refer to <a href="#">Section 6, Error Codes</a> for error code definitions.
<b>Error Message</b>	X	100	First 100 characters of an erroneous message

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Error Position</b>	N	4	Determines the bytes at which an error has been detected
<b>Exchange Message ID</b>	X	6	<p>Identifies a message sent by the exchange for a Participant connection. It represents the exchange identifier of the message for the current session. It is used in a Connection message as a retransmission starting point.</p> <ul style="list-style-type: none"> <li>• If equal to zeroes: start from 1st message of the session.</li> <li>• If equal to blanks: start from next message for Participant.</li> <li>• If valid Exchange Message ID: start at this message ID or the next message for the Participant.</li> <li>• If it contains spaces, it means that this field is not subject to re-transmission.</li> </ul>
<b>Firm ID</b>	X	4	Identifies a firm referenced in the SOLA® database
<b>YesNoFlag</b>	X	1	<ul style="list-style-type: none"> <li>• Y: Yes</li> <li>• N: No</li> </ul>
<b>Gap Sequence ID</b>	N	2	A Sequence Numeric (base 10) used to track gaps, and runs from 0 to 99 over and over. If the Participant detects a gap, he has to reconnect with a Trader Connection message.
<b>Group ID</b>	X	2	Group Identification within the system. A Group is composed of instruments and is usually associated with a specific underlying.
<b>Group State</b>	X	1	<p>This parameter indicates the new status of the group. For message type NG, it contains one of the following values:</p> <ul style="list-style-type: none"> <li>• B: Post session</li> <li>• C: Consultation Start</li> <li>• F: Consultation End</li> <li>• I: Prohibited</li> <li>• M: Mini-batch</li> <li>• N: Market Operation Center Intervention</li> <li>• O: Opening</li> <li>• P: Pre-opening</li> <li>• S: Continuous Trading Session</li> <li>• Z: Interrupted</li> </ul>
<b>Handling Instruction</b>	X	1	<p>Indicates to the target Market Maker how order should be processed. Instructions for order handling on destination trading floor or system.</p> <ul style="list-style-type: none"> <li>• 1: Automated only, no broker intervention</li> <li>• 2: Automated with broker intervention</li> <li>• 3: Manual order, best execution</li> </ul>

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Hedge/Spec</b>	A	1	<ul style="list-style-type: none"> <li>H: Hedger</li> <li>S: Speculator</li> </ul>
<b>IML Handling</b>	X	1	<p>All Public Customer Orders sent to BOX must include NBBO filtering instructions:</p> <ol style="list-style-type: none"> <li>1. NBBO Filtering and IML Routing: The order is filtered for NBBO and is routed to the best away Exchange if it is executed and BOX is not at NBBO.</li> <li>2. No NBBO Filtering: The order is not filtered for NBBO. This Combined Order Type is not acceptable for Public Customer and Broker Dealer origin orders, regardless of whether they are for BOX Participants or not.</li> <li>3. NBBO Filtering and No IML Routing: Order filtered against NBBO without Inter-Market Linkage routing instructions, the Order being rejected back to the sender if it is marketable at the time of reception and BOX is not at NBBO. For Complex Order, this is the only valid value.</li> <li>4. InBound ISO order. The order is a Limit and IOC order. It is not filtered against NBBO and not routed away.</li> <li>5. Contingent Orders: Specifies that the Auction or <b>Floor Trade</b> is contingent and should not be controlled against the NBBO for the execution price. Only used for Solicitation, Facilitation <b>and Floor Trades</b>. The only values supported for Solicitation and Facilitation are 3 and 5.</li> <li>6. No Exposure for Complex Order Instrument upon entry. Default behaviour for Complex Order Instrument is to be exposed upon entry. Only valid for Complex Order.</li> </ol>
<b>Inactivity Interval</b>	N	2	Number of missed heartbeats before considering the user disconnected. If set to 0, the user is never considered as disconnected by the system.
<b>Instrument ID</b>	X	4	Instrument identification within a Group
<b>Instrument State</b>	X	1	<ul style="list-style-type: none"> <li>F Forbidden: Trading is forbidden for this instrument. Orders and quotes are rejected</li> <li>N Normal: The instrument follows group state processing</li> <li>R Orders and quotes are processed in Pre-opening if the group is in Trading status.</li> </ul>
<b>Leg Number</b>	N	2	ID of the leg of the Complex Order Instrument. Maximum value of <b>12</b> .

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Liquidity Status</b>	X	1	Indicates if the trade adds or removes liquidity <ul style="list-style-type: none"> <li>• M: Maker</li> <li>• T: Taker</li> <li>• [ ]: Trade is not eligible for Make or Take fee pricing structure</li> </ul>
<b>Memo</b>	X	50	Free text zone, can be used to transmit additional information for processing. No validations are carried out on this field.
<b>Message Type</b>	X	2	Type of Message
<b>Open/Close</b>	X	1	Indicates how the Participant's position will be handled by the clearing system. Valid Values for options and individual leg of a Complex Order instrument: <ul style="list-style-type: none"> <li>• C: Close (all legs or single instrument)</li> <li>• O: Open (all legs or single instrument)</li> </ul> <p>For Complex Orders, ' ' must be used. It indicates that the OpenClose positions are specified in the <b>Post Trading Instruction</b> field.</p> <p>For Legacy support, the following values are still supported for Complex Orders:</p> <ul style="list-style-type: none"> <li>• 1: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close</li> <li>• 2: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open</li> <li>• 3: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Close</li> <li>• 4: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Open</li> <li>• 5: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Close</li> <li>• 6: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Open</li> <li>• 7: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Close</li> <li>• 8: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Open</li> <li>• A: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Close</li> <li>• B: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Open</li> <li>• D: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Close</li> <li>• E: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Open</li> <li>• F: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Close</li> <li>• G: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Open</li> <li>• H: 1<sup>st</sup> leg Open, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Close</li> <li>• I: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Open</li> <li>• J: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Close</li> <li>• K: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Open</li> <li>• L: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Open, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Close</li> <li>• M: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Open</li> <li>• N: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Open, 4<sup>th</sup> leg Close</li> <li>• P: 1<sup>st</sup> leg Close, 2<sup>nd</sup> leg Close, 3<sup>rd</sup> leg Close, 4<sup>th</sup> leg Open</li> </ul>

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Order ID</b>	X	8	Identifies an order. Associated with Group ID and Instrument ID; it is the Order Key identifier
<b>Order Type</b>	A	1	<ul style="list-style-type: none"> <li>• O: Order</li> <li>• Q: Quote</li> </ul>
<b>Original Order ID</b>	X	8	First Order ID assigned to the order by the trading system
<b>Original Reference ID</b>	X	8	References either the Original Order ID of the traded order or the Quote ID of the quote that has traded ID Code for the Counterpart Participant Trader ID firm if it is a cross trade, else blank
<b>Password</b>	X	8	Contact Technical Help Desk for details Used when establishing a SAIL Logical connection

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
Post Trade Instruction	X	50	<p>String of characters</p> <p><del>Contains the Firm ID of one Give-Up and one CMTA with the following format: 'C + CMTA Firm ID + G + Give-Up Firm ID' C950G980 and/or the Open/Close position of each leg for Complex Orders.</del></p> <p>This field is used for 3 reasons:</p> <ul style="list-style-type: none"> <li>Specify a CMTA</li> <li>Specify a give-Up Firm</li> <li>Specify the Open Close of a Complex Order</li> </ul> <p>The information can be specified as follows:</p> <ul style="list-style-type: none"> <li>To Specify a CMTA, specify the CMTA Firm ID (up to 4 digits) between 2 'C' (the 'C' at the end is optional, but recommended)</li> <li>To Specify a Give-Up Firm, specify the Give-Up Firm ID (up to 4 digits) between 2 'G' (the 'G' at the end is optional, but recommended)</li> <li>To specify the OpenClose of a Complex Order, specify the Open (O) or Close (C) position of each leg between 2 'P' (the 'P' at the end is optional, but recommended)</li> </ul> <p>For example:  "C950CG980GPOOCCOCOCCCP" is interpreted as follows:</p> <ul style="list-style-type: none"> <li>The CMTA is 950</li> <li>The Give-Up is 980</li> <li>The Open/Close of the 10 legs of the strategy is as follows: <ul style="list-style-type: none"> <li>. Leg 1: Open</li> <li>. Leg 2: Open</li> <li>. Leg 3: Close</li> <li>. Leg 4: Close</li> <li>. Leg 5: Open</li> <li>. Leg 6: Close</li> <li>. Leg 7: Open</li> <li>. Leg 8: Close</li> <li>. Leg 9: Close</li> <li>. Leg 10: Close</li> </ul> </li> </ul> <p>The following string (without ending characters) has the same result: "C950G980POOCCOCOCCC".</p>

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Price</b>	X	10	<p>Price with format indicator and price mantissa</p> <p><b>Format indicator (1):</b>            If the format indicator is Alpha, it means that the price is negative (A means negative value with no decimal, B means negative value with 1 decimal, C means negative value with 2 decimals, etc.).            If the format indicator is Numeric, it means that the price is positive (0 means positive value with no decimal, 1 means positive value with one decimal, 2 means positive value with 2 decimals, etc.).            If the format indicator is set to spaces, it means that the price is not significant.</p> <p><b>Price mantissa (9):</b>            Represents the price value including the number of decimals defined in the format indicator.</p> <p><b>Examples:</b>            Format indicator = 2;            Price mantissa = 3509438; Price = 35094.38            Format indicator = A;            Price mantissa = 3567838; Price = -3567838            Format indicator = ;            Price mantissa = 3567838; Price = not significant</p>
<b>Price Type</b>	X	1	<p>For regular order:</p> <ul style="list-style-type: none"> <li>• L: Limit (price set in message)</li> <li>• O: At Opening price</li> <li>• W: At any price (Market Order)</li> </ul>
<b>Protection Code</b>	A	1	<p>Type of protection requested by the Market Maker</p> <ul style="list-style-type: none"> <li>• A: Advanced Protection</li> <li>• C: Functionally equivalent to N</li> <li>• N: Standard Protection</li> </ul> <p><b>Note:</b> If no Market Maker Protection Subscription message is sent, BOX will assume the Participant requested standard protection (N). BOX will reset the selected protection to standard every morning before the pre-opening phase. A new Market Maker Protection Subscription message will be required to activate advanced protection.</p>
<b>Protocol</b>	X	2	<p>Protocol ID:            Versions A0, A1, A2, and A5 are no longer supported.            A6 (includes Complex Order), A7, A8, B1, B3</p>

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Quantity</b>	N	8	Number of contracts or shares
<b>Quantity Sign</b>	X	1	<p>For a quote or an order update, it identifies how to handle the quantity:</p> <ul style="list-style-type: none"> <li>• "+": Add the incoming quantity to the booked quantity</li> <li>• "-": Subtract the incoming quantity from the booked quantity</li> <li>• "=": Replace the booked quantity with the incoming quantity</li> </ul> <p>Participants are able to modify the quantity of an order by specifying the quantity variation from the original value (+, - signs) instead of being limited to specifying only the remaining quantity.</p>
<b>Quantity Term</b>	X	1	<ul style="list-style-type: none"> <li>• B: Surrender Quantity for Solicitation</li> <li>• J: Indicates that the Auction type as MIP</li> <li>• Space: None</li> </ul> <p>The above value indicates that the InitO is willing to surrender a portion of the total number of contracts in the Solicitation auction.</p> <p>Must be blank if not used for Facilitation</p>
<b>Quote Cancel Reason</b>	A	1	<p>Identifies the type of quote cancellation</p> <ul style="list-style-type: none"> <li>• A: Cancelled by the Trader</li> <li>• D: MMP – Percent Of Quote has been reached</li> <li>• E: Maximum Triggers Protection Limit Exceeded</li> <li>• G: Cancelled By Supervisor</li> <li>• I: Eliminated on Disconnect</li> <li>• L: Traded Activity Protection Limit Exceeded</li> <li>• M: Cancelled by the BOX Market Operations Center (MOC)</li> <li>• O: Eliminated Due To Drill Through Protection</li> <li>• P: MMP - Max number of trades has been reached</li> <li>• Q: Quotes Cancelled</li> <li>• R: MMP - Max value has been reached</li> <li>• S: Cancelled by the System</li> <li>• T: MMP - Max Volume has been reached</li> <li>• N: MMP - Max Delta Volume has been reached</li> <li>• V: MMP - Max Delta Value has been reached</li> <li>• W: Cancel Pending</li> </ul>
<b>Reference ID</b>	X	8	References the order (Order ID) or the quote (Quote ID) that has traded
<b>Rejection Code</b>	N	4	<ul style="list-style-type: none"> <li>• 0001: Executing Participant Discretion</li> <li>• 0002: Auction Order failed</li> </ul>



FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Session ID</b>	X	4	Identifies current session ID <b>Note:</b> If set to blank spaces, this means the Participant wants to connect to the current session ID.
<b>Special Price Term</b>	X	1	PIP Solicitation Facilitation <ul style="list-style-type: none"> <li>• B: Solicitation Auction</li> <li>• C: Facilitation Auction</li> <li>• G: Regular PIP</li> <li>• X: Customer Cross Order or Qualified Contingent Cross Order</li> </ul> <b>Note:</b> These values specify the type of Auction to be started. Order Entry <ul style="list-style-type: none"> <li>• '': (Blank), No Special Price Term</li> <li>• O: Directed Order</li> <li>• P: Preferenced Order</li> <li>• R: Floor Trade</li> <li>• A: Indication of Interest</li> </ul>
<b>Special Trade Indicator</b>	A	1	Defines the type of trade <ul style="list-style-type: none"> <li>• A: As-Of-Trade</li> <li>• B: Block Trade</li> <li>• L: Late Trade</li> <li>• O: Hidden Trade</li> <li>• S: Size Adjustment Trade</li> <li>• D: Customer Cross Order or Qualified Contingent Cross Order</li> </ul> <b>Applies to Solicitation, Facilitation and Floor Trade only:</b> <ul style="list-style-type: none"> <li>• g: Contingent Trade (trade was not controlled against the NBBO)</li> </ul>

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Status</b>			<p>Provides the Participant with the outcome reserved for the order that is the subject of the entry, modification, or cancellation.</p> <ul style="list-style-type: none"> <li>• " ": Order put in the Order Book (having possibly been partially executed)</li> <li>• A: Order cancelled by the trader or at the end of the exposition phase</li> <li>• B: Order has been eliminated by the trading system due to invalid out of limits price</li> <li>• D: The order is a 'Directed/Routed Order' and has been received by ExecutingParticipant</li> <li>• E: The order has been eliminated by the trading system</li> <li>• G: Cancelled By Supervisor</li> <li>• I: Session Order has been cancelled when the Participant closes or loses his connection to the SOLA trading system</li> <li>• J: Eliminated Due To Maximum Nb Triggers Limit Exceeded</li> <li>• K: Eliminated Due To Trade Activity Limit Exceeded</li> <li>• L: Order has been sent to the away exchange</li> <li>• M: Cancelled by the BOX Market Operations Center (MOC)</li> <li>• O: Eliminated Due To Drill Through Protection</li> <li>• P: Order is being exposed</li> <li>• R: Order is eliminated due to trading restriction</li> <li>• T: Eliminated Due To Trade Limit Exceeded</li> <li>• W: Cancel Pending</li> <li>• X: Order executed in full (or partially and the remaining part could not be put in the Order Book) (Fill &amp; Kill)</li> </ul>
<b>String (x)</b>	X	X	Free text depending on the context
<b>Time</b>	N	6	HHMMSS
<b>Trade Memo</b>	X	50	Text entered by Market Operation when it is a Manual Trade Entry
<b>Trade Number</b>	N	8	Identifies the trade number for an instrument and one day
<b>Trade Type</b>	X	1	<p>Identifies the origin of the trade</p> <ul style="list-style-type: none"> <li>• A: Traded during a Guaranteed Auction</li> <li>• B: Solicitation Auction</li> <li>• C: Facilitation Auction</li> <li>• F: Traded during Continuous Trading following FIFO algorithm</li> <li>• M: Trade entered by Market Operations</li> <li>• O: Traded during Opening</li> </ul>

FIELD TYPE	FORMAT	LENGTH	DESCRIPTION/VALUES
<b>Trader ID</b>	X	8	Identifies the trader <ul style="list-style-type: none"> <li>• 4 first characters: Firm Identifier</li> <li>• 4 Last characters: Trader Identifier</li> </ul>
<b>Trader Lock Status</b>			<ul style="list-style-type: none"> <li>• L: Locked</li> <li>• U: Unlocked</li> </ul>
<b>User ID</b>	X	8	Identifies the User for a connection. The User ID must be referenced in the SOLA® configuration database.
<b>User Sequence ID</b>	N	8	Identifies all the incoming business messages for one connection. Must be sequential and start at 1 at the beginning of the day. Used by SOLA® to track gaps in message sequence.
<b>Verb</b>	X	1	Identifies an order/quote side <ul style="list-style-type: none"> <li>• B: Buy</li> <li>• S: Sell</li> </ul>

## Section 6 Error Codes

The following table displays the error codes and text that will appear in error responses.

ERROR CODE	ERROR TEXT
0001	User Identification is incorrect
0002	Protocol Version is not supported
0003	Message Type is not supported
0004	Session ID is not active
0005	User Account Locked
0006	Message Type requested is not supported
0008	Message is too short
0009	Message is too long
0010	Message contains Binary Data
0011	No Heartbeat Activity: Disconnection
0012	Message Type is Out Of Context
0013	User ID has been deactivated: Disconnection
0014	Syntax Error + <detailed text>
0015	Field Value is too small
0016	Field Value is too big
0100	Firm is Forbidden to trade on this Group
0101	Duration Type is Forbidden for current Group state
0102	Verb field (Side) cannot be modified
0103	Order is not active
0104	Price Type is forbidden for this instrument
0105	Price Term is Forbidden for current Instrument state
0108	Duration Type is Forbidden for current Instrument state
0109	Order cannot be processed: No opposite limit

ERROR CODE	ERROR TEXT
0110	Price does not represent a valid tick increment for this Instrument
0111	Duration Type is invalid for this Price Type
0112	Cross Order price must be within the Instrument trading limits
0113	Order price outside price spread
0114	Opposite Firm must be filled for committed order
0115	Order Account Type is inconsistent with IML Handling field
0116	Cross order is not allowed
0117	Cross order quantity is outside limits
0118	Duration Type is Invalid for This Price Term
0119	Quantity is out of range
0120	Functionality is not supported
0121	Order price is outside the order entry protection limits.
0123	Floor Trade Not Allowed
0124	Insufficient Surrender Quantity
0201	GTD date must be equal to or greater than current day
0202	GTD date must be equal to or less than Instrument expiration date
0203	GTD date must be filled only if Duration Type is equal to GTD
0300	Quantity Term is Forbidden for current Instrument state
0302	Quantity must be less than or equal to Maximum Improvement Quantity
0303	Quantity Term is not authorized for this Order Type
0304	Additional Quantity must be less than Order Quantity
0305	Additional Quantity is too small
0306	Minimum quantity cannot be modified
0307	Quantity Term is forbidden for Duration Type
0308	Order quantity is outside the instrument quantity threshold
0309	Quantities must be multiples of lot size

ERROR CODE	ERROR TEXT
0310	Order Net Value Is Outside the Net Value Threshold
0402	Trader ID field cannot be modified
0403	Market Maker not authorized for Group
0404	Market Maker P orders not authorized for class
0405	Market Maker quote spread invalid for P orders
0406	Market Maker quote size invalid for P orders
0407	Market Maker quote should not trade on entry
0500	Order price is outside the instrument price threshold
0501	Price field is mandatory for Limit Orders
0502	Price field must not be filled for this Price Type
0503	Order cannot be modified or cancelled
0504	Additional Price is forbidden for Price Term
0505	Order price must be greater than additional price
0506	Order price must be lower than additional price
0507	Additional price must be lower than last price or last day price
0508	Additional price must be greater than last price or last day price
0509	Order rejected. Cannot trade outside instrument price thresholds.
0510	Order cannot be modified
511	Order price is outside circuit breaker limits
512	Price Term Invalid For Price Type
0513	Instrument allows only Closing Orders
0514	Instrument Leg allows only Closing Orders
0700	Only one quote per Instrument and per Side is accepted
0701	Quote is not present in the Instrument Book
0702	Bulk Quote Participant Protection in progress; Quote not processed.
0703	Advanced Bulk Quote Participant Protection not enabled for this Group

ERROR CODE	ERROR TEXT
0704	Buy and Sell must not cross for the same instrument
0705	Number of quotes is not in sync with the message length
0707	Bulk Quote Participant Protection state must be re-activated
0708	Trader ID has no quote for this Group
0709	All the Instruments must belong to the same Group
0710	Clearing Data has not been initialized
0800	Required number of Market Makers is not satisfied to start an auction.
0801	Auction ID is not active.
0802	Only Price can be updated.
0803	Price must be better than previous Improvement Price.
0804	Improvement Quantity is not valid.
0805	Only price and quantity can be updated.
0806	Improvement Verb is not valid for this auction.
0807	A guaranteed auction cannot be started when NBBO is crossed or locked.
0808	An auction is already running.
0810	Price must be within NBBO spread.
0811	Quantity must be greater than Minimum Improvement Quantity.
0812	Improvement Order cannot be cancelled
0813	Initial Order cancel is forbidden
0814	Improvement cancellation forbidden
0815	Improvement price must be improved
0816	Improvement quantity cannot be decreased
0900	EP Disconnected
1000	Cross orders forbidden in Pre-opening phase.
1001	Instrument does not exist
1002	Group ID does not exist

ERROR CODE	ERROR TEXT
1003	Trader ID is invalid
1004	Message Type is forbidden for current Instrument state
1005	Firm ID is Invalid
1006	Directed Order should be Guaranteed
1007	Participant must use A2 protocol version
1008	RFQ currently underway for this instrument
1009	Action not allowed under current configuration
1010	Number of entries is invalid
1011	Invalid Trade Id
1103	Cross order price type must be limited
1104	Validity date type for a cross order must be FAK
1105	Invalid datas for Low and high limits
1106	The preopening time must be greater than system time
1107	Firm or trader had been disabled
1108	Instrument mandatory when using MM Monitoring Mode Forced
1109	Market maker has no obligation for this group
2000	Technical error; function not performed. Contact Technical Help Desk.
2001	Gateway State forbids this command. Contact Technical Help Desk.
2002	Function only partially performed. Contact Technical Help Desk.
3000	Broker Option
3001	Unknown Invalid Symbol
3002	Exchange Closed
3003	Order Exceeds Limit
3004	Too Late To Enter
3005	Unknown Order



ERROR CODE	ERROR TEXT
3006	Duplicate Order
3007	Stale Order
3008	Instrument State Rotation
3009	Instrument State NonFirmMode
3010	Instrument State halted
3011	Reference Price Is Out Of Bound
3012	Unknown Clearing Firm
3013	SubAccount ID Missing
3014	Invalid Auto Ex Value
3015	Account Missing
3016	Time In Force Missing Invalid
3017	Open Close Missing Invalid
3018	Exec Broker Missing
3019	Clearing Account Missing
3020	Execution Information Missing
3021	Order Received Too Soon
3022	Order Capacity Missing Invalid
3023	Late Print To OPRA Tape
3024	Communications Delays To OPRA
3025	Manual Crowd Trade
3026	Processing Problems
3027	Complex Order
3028	Trade Rejected
3029	Trade Busted Corrected
3030	Original Order Rejected
3031	Rejected Linkage Trade

ERROR CODE	ERROR TEXT
3032	Other
3033	Traded At NBBO
3034	Unknown Exchange
3035	Too Late To Cancel
3036	Already In Pending Cancel
3037	Pro Rata Satisfaction Distrib
3038	Req Ord Size Superior Trade Size
3039	Not At NBBO
3040	Cancel Due To Non Block Trade
3041	Unknown Clearing Operation Mode
3042	Invalid Price Type
3096	TraderLockOut
3097	RiskTeamLockOut
4001	Executing Participant discretion
4002	Initial Order Failed
4003	Executing Participant did not respond Order booked
4010	Invalid modification of Executing Participant
5001	Report date is invalid
5002	Account number does not exist
5003	Account already exists
5004	Both quantities cannot be null
5005	Position does not exist
5006	Account does not exist
5007	Participant does not exist
5008	Approved participant does not exist
5009	This account has open positions

ERROR CODE	ERROR TEXT
5010	Firm unit mismatch
5011	Invalid instrument for specified report date
9000	Internal. To be defined
9001	Price Term is forbidden for ISO order
9002	Quantity Term is forbidden for ISO order
9003	ISO order must be Limit
9004	Group opening not allowed number of instruments exceeds threshold
9005	Group opening not allowed total traded volume exceeds threshold
9006	Instrument opening not allowed a quote crosses the CTO
9007	ISO order must be IOC
9008	Change to ISO order is forbidden
9009	Unknown CPU.
9010	CPU State forbids this command.
9011	Change from PPA IML handling is Forbidden.
9012	Change to PPA IML handling Type is Forbidden.
9013	No order to delete in the book
9014	Strategy trade must be cancelled leg by leg
9015	Strategy instrument has some legs closed
9016	Maximum pending instrument creation reached
9017	Invalid Number Of Legs
9018	Invalid Leg Information
9019	Unknown Strategy type
9020	Firm Creation Quotas Has Been Reached
9021	Leg Instrument Is Not Active
9022	Strategy has unpriced legs
9023	Group state does not allow this function

ERROR CODE	ERROR TEXT
9024	Order cannot be processed presence of capped legging order



**Montréal Exchange Inc.**

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