



TO: BOX Participants
FROM: Participant Connectivity Coordinator
SUBJECT: Give Up
DATE: February 25, 2010

The Boston Options Exchange is pleased to announce the release of improved CMTA and Give Up functionality to its Participants beginning March 8, 2010. With this release Participants will be able to execute pre and post trade (using TMS) Give Up and CMTA.

In addition, this release also contains:

- "Trade Type" in FIX messages and ATR
- Liquidity Status indicator on PIP trades
- Away Trade Execution indicator on FIX Acknowledgments

Set Up

Give Ups will only be allowed between Firms having a Give Up agreement registered with BOX. Participants have to notify BOX MOC of their Give Up agreements before they can execute the Give Up, either pre or post trade. If the Participant attempts to use a Give UP, which is not registered, the Participants default clearing information will be used.

BOX's existing CMTA functionality uses Allocation keys. If Participants plan to use FIX Tag 76 (Give Up) and FIX Tag 439 (CMTA) or the equivalent SAIL fields, the Allocation Key should be set to "**". Participants will need to contact BOX MOC to set up the Allocation Keys.

Protocol Changes

The following protocols and messages are affected with this release:

Protocol	Impact
FIX	<p>FIX protocol uses Tag #76 (ExecBroker) for Give Up and Tag #439 (ClearingFirm) for CMTA:</p> <ul style="list-style-type: none">• "New Order Single", "Order Cancel/Replace Request" can set one Give Up, one CMTA, or both.• "PIP Initial Order" can set one Give Up or one CMTA but not both at the same time <p>Additional FIX protocol changes include the following:</p> <ul style="list-style-type: none">• "Execution Report" transmitted after a trade execution contains a supplementary Tag #9459 (SpecialTradeInd). To receive this tag, Participants

Protocol	Impact
	<p>have to make a request to BOX MOC</p> <ul style="list-style-type: none"> • “Execution Report” transmitted after a trade execution will contains the Tag #828 (TrdType) with new values. To receive this tag, Participants have to make a request to BOX MOC • “Execution Report” will contain Tag #9730 (TradeLiquidityIndicator) with a new value “X”. This value will indicate that the trade was done at an Away Exchange. To receive this tag, Participants have to make a request to BOX MOC
SAIL	<p>Six SAIL messages are changed to support Give Up and/or CMTA functionality:</p> <ul style="list-style-type: none"> • SailOrderEntry (OE), SailOrderModification (OM) - Supports one of the combinations: <ul style="list-style-type: none"> ○ Enter one Give Up ○ Enter one CMTA ○ Enter one Give Up and one CMTA • SailAuctionEntry (OA) and SailImprovementOrderEntry (OI) – Supports either one Give Up or one CMTA but not both • SailDirectOrderAcceptation (OD) – Supports either one Give Up or one CMTA but not both • SailExecutionNotice and SailExecutionCancellationNotice – Contains either the Give Up or CMTA information but not both • <i>Example</i> <ul style="list-style-type: none"> ○ The SAIL <i>ClearingOperationMode</i>, <i>ClearingDestination</i>, and <i>PostTradingInstruction</i> fields are used for CMTA and Give-Up. ○ To set one CMTA or one Give Up firm ID in a SailOrderEntry (OE) or a SailOrderModification (OM) message: <ul style="list-style-type: none"> ➢ The field <i>ClearingOperationMode</i> is set with “C” or “G” ➢ The field <i>ClearingDestination</i> is set with a string containing either the CMTA or Give UP clearing firm ID. ○ To set one CMTA and one Give Up firm ID in a SailOrderEntry (OE) or a SailOrderModification (OM) message: <ul style="list-style-type: none"> ➢ The field <i>ClearingMode</i> is set with “I” ➢ The field <i>PostTradingInstruction</i> is set with a string containing both CMTA and Give Up firm ID: “C+ CMTA FIRM ID + G + GIVE-UP FIRM ID” Example: “C950G980”
TMS	<p>The TMS application will display the “Give-Up” information</p>
ATR	<p>Four new message types have been created to support the Give Up functionality:</p> <ul style="list-style-type: none"> ○ GiveUp ○ GiveUpCancel ○ AsOfGiveUp ○ AsOfGiveUpCancel <p>The above four new message types will have the same content as the “Trade” message type (Message Type 30) plus two new fields for the Give Up source and destination</p>

Messaging Details

1. FIX

New Order-Single (35=D), and Order Cancel/Replace Request (35=G)

Field #	Field Name	Description	Field Length
76	ExecBroker	Defines the Give Up firm	3

Execution Report (35=8)

Field #	Field Name	Value	Meaning	Description	Field Length
9459	SpecialTradeInd	0	Regular Trade		1
9730	TradeLiquidityIndicator	X	Away Exchange Trade		1
828	TrdType	<blank>	Unknown	Unknown	1
		O	Opening	Trade performed during Opening Rotation	
		M	Market Operation	Trade entered by BOX MOC	
		A	Guaranteed Auction	Trade done at the end of a PIP auction	
		F	Continuous Trading	All other trade conditions	

2. SAIL

SailOrderEntry (OE), SailOrderModification (OM)

Field Name	Value	Description	Field Length
ClearingOperationMode	C	When one CMTA firm is defined in the field ClearingDestination	1
	G	When one Give Up firm is defined in the field ClearingDestination	
	I	When one Give Up and one CMTA firm is defined in the new field PostTradingInstruction	
PostTradingInstruction	A string of characters (end of the message)	Contains the Firm ID of one Give Up and one CMTA firm with the following format: 'C + CMTA FIRM ID + G + GIVE-UP FIRM ID' Example: "C950G980"	50

3. ATR

A new field 'Trade Type' is added to the end of ALL existing ATR messages

Field Name	Value	Meaning	Description	Field Length	Data Type
Trade Type	N	Normal	A regular trade	1	3
	O	Crossed Order	A trade with the same Firm ID on both sides		
	T	Trader Crossed Order	A trade with the same Trader ID on both sides		
	M	Manual	A trade entered by the BOX MOC		
	P	PIP	A trade done at the end of a PIP auction		
	F	Firm DO	A trade resulting from a Directed Order		
	A	As Of	A trade entered by the BOX MOC to correct a trade executed on a previous day		
	E	Late	A trade entered by the BOX MOC to correct a trade executed on the same day		

Four new messages have been created to support Give Up functionality:

- **Message Type 50** – GiveUp
- **Message Type 51** – GiveUpCancel
- **Message Type 55** – AsOfGiveUp
- **Message Type 56** – AsOfGiveUpCancel

The new messages have the same content as Message Type 30 (Trade) plus three new fields as described below

Field Name	Value	Meaning	Description	Field Length	Data Type
Give Up Source			Firm ID that is giving up the trade	3	ASCII
Give Up Destination			Firm ID to which the trade is given up	3	ASCII
Trade Type	N	Normal	A regular trade	1	ASCII
	O	Crossed Order	A trade with the same Firm ID on both sides		
	T	Trader Crossed Order	A trade with the same Trader ID on both sides		
	M	Manual	A trade entered by the BOX MOC		
	P	PIP	A trade done at the end of a PIP auction		
	F	Firm DO	A trade resulting from a Directed Order		
	A	As Of	A trade entered by the BOX MOC to correct a trade executed		

Field Name	Value	Meaning	Description	Field Length	Data Type
			on a previous day		
	E	Late	A trade entered by the BOX MOC to correct a trade executed on the same day		

4. REPORTS

Trade Report - Will contain a new line for Trades which are Give Up trades and the field "Clearing Type" will contain the value "Give Up"

Order Report – The "Clearing Operation Mode" field will always show "CMTA" regardless of whether the order had CMTA or Give Up instructions. This functionality will be updated in a future release

Contacts

The BOX ISV environment is available for Participants to test the new changes. Please contact the Market Operations Center at (866) 768-8845 or by e-mail at BOXMOC@bostonoptions.com if you require additional information.

Thank you,

BOX Participant Connectivity Coordinator