



## Technical Notice

09-021

**TO:** BOX Participants

**FROM:** Participant Connectivity Coordinator

**SUBJECT:** Option Symbology Initiative (OSI) Phase II Consolidation Test – December 12, 2009

**DATE:** December 9, 2009

**This notice is related to BOX Technical Notices 09-004, 09-011, 09-013 and 09-018. It is intended for BOX Participants taking part in the Options Symbology Initiative Phase II Consolidation Test on December 12, 2009.**

The Phase II Consolidation Test simulates the consolidation process, including subsequent trading and clearing using post-consolidated Symbology. Non-consolidated Symbology will also be provided to allow Participants to test with an environment simulating the February 26 to May 14, 2009 timeframe where some, but not all, symbols will be consolidated.

BOX will take part in the Phase II Consolidation Test with other member firms as communicated by the OCC. Please refer to the OCC website [http://www.optionsclearing.com/initiatives/symbology/osi\\_testing.jsp](http://www.optionsclearing.com/initiatives/symbology/osi_testing.jsp) for additional details.

### 1. Expectations for the Phase II Consolidation Test

BOX's objective is to support Participants in simulating end-to-end processes in a Symbology-compliant environment. BOX encourages Participants to validate their applicable BOX functionality supporting FIX, SAIL, ATR and TMS.

The BOX Symbology changes include the following:

Interfaces	External Impact	Production View on February 12, 2010
Current FIX Formats	No Changes	Decommissioned February 12, 2010
OSI FIX Formats	New Tag #205, add expiry day	New field is mandatory
SAIL	No Changes	N/A
Current ATR (ver.1.7)	No Changes	Decommissioned February 12, 2010
OSI ATR (ver.1.9)	Enlarge expiry year	New protocol is mandatory
	Add Strike price fraction indicator	
TMS	No Changes	Replaced by OSI TMS on February 12, 2010
OSI TMS	No Changes	Mandatory Use of the new version

BOX will not certify the results of the Phase II Consolidation Test.

## 2. Test Registration and Preparation

BOX requests that Participants inform the BOX Market Operations Center (MOC) via e-mail of planned Phase II Consolidation Test involvement at [boxmoc@bostonoptions.com](mailto:boxmoc@bostonoptions.com). BOX will also review the registration list provided from the OCC.

BOX strongly encourages all FIX and SAIL Participants, service vendors and data vendors to certify their systems for Symbology compliance. Certification is available through January 30, 2010. To certify with BOX, please contact Robert Petro via the BOX Symbology email box: [boxosi@bostonoptions.com](mailto:boxosi@bostonoptions.com).

## 3. Phase II Consolidation Testing Activities

BOX will operate on a coordinated basis with the OCC and other exchanges for OSI weekend testing. BOX encourages Participants to operate as if it were a normal business day during the testing. The actual test date, Saturday, December 12, 2009, will be used as the trade date.

Activities supported by BOX include: Preopening, Continuous Trading and Post Trading.

- **Preopening (7:00 AM ET – 9:00 AM ET)**
  - Connection validation
  
- **Continuous Trading (9:00 AM ET – 2:00 PM ET)**
  - Quotes and trades will be disseminated to OPRA
  - Interacting with orders
    - There will be sufficient liquidity in identified symbols, including test symbols, to provide executions
  - Interacting with the OCC
    - Trades executed during the test will be delivered to OCC for processing and subsequent adjustments by clearing firms
  
- **Post Trading (2:00 PM ET – 3:00 PM ET)**
  - Reports

## 4. Environment Settings and Configurations

BOX will support OSI testing using the BOX production environment with a mirrored copy of the database.

It will be necessary to connect to the BOX production environment via the production network and using production credentials, regardless of the BOX Participant's environment.

## 5. Supporting Resources

The BOX Market Operations Center (MOC) and Support Services will be in place to support the OSI testing. If issues arise during testing, please contact the MOC at (866) 768-8845 or [boxmoc@bostonoptions.com](mailto:boxmoc@bostonoptions.com).

BOX will also join in the OCC Conference Bridge.

## 6. Data

BOX will support a subset of the data defined in the latest OCC [Exchange Test Scripts](#) document. The OCC data set may be found at the following link:

[http://www.optionsclearing.com/initiatives/symbology/osi\\_testing.jsp](http://www.optionsclearing.com/initiatives/symbology/osi_testing.jsp)

The BOX subset consists of the following:

### Production Classes- All Exchanges

Test Case #	BOX Support	Underlying Symbol	Subclass	Option Symbol (Pre-Consol)	Option Symbol (POST-Consol)	Year	Month	Day	Call/ Put	Strike	BOX Qty	Price Executed At	Series Quote
1001	Yes	F	Standard	F	F	2010	01	16	Call	7.5	1000	\$0.04	Market Bid/Ask .00 - .04
2001	Yes	VZ	Leap	VBU	VZ	2011	01	22	Put	22.5	1000	\$16.55	Market Bid/Ask 16.55-16.90
<b>2002</b>	<b>No</b>	<b>VZ</b>	<b>Corp. Act.</b>	<b>WLR</b>	<b>VZ1</b>	<b>2010</b>	<b>01</b>	<b>16</b>	<b>Put</b>	<b>45</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
3001	Yes	GLD	Standard	GLD	GLD	2010	03	20	Call	100	1000	\$7.40	Market Bid/Ask 7.20 - 7.40
3002	Yes	GLD	Standard	GLD	GLD	2010	03	20	Put	100	1000	\$9.50	Market Bid/Ask 9.50-9.80
3003	Yes	GLD	Leap	OQA	GLD	2011	01	22	Call	115	1000	\$9.30	Market Bid/Ask 9.10 - 9.30
3004	Yes	GLD	Leap	OQA	GLD	2011	01	22	Put	115	1000	\$25.30	Market Bid/Ask 25.30 - 25.90
3005	Yes	GLD	Wrap	GVJ	GLD	2010	03	20	Call	140	1000		Market Bid/Ask 1.50 - 1.70
3006	Yes	GLD	Wrap	GVJ	GLD	2010	03	20	Put	140	1000	\$44.20	Market Bid/Ask 43.70 - 44.20
3007	Yes	XLE	Quarterly	GQQ	XLE	2010	03	31	Call	59	1000	\$2.30	Market Bid/Ask 2.11 - 2.30
3008	Yes	XLE	Quarterly	GQQ	XLE	2010	03	31	Put	59	1000	\$9.25	Market Bid/Ask 9.25-9.65
<b>3009</b>	<b>No</b>	<b>STD</b>	<b>Corp. Act.</b>	<b>WVR</b>	<b>STD1</b>	<b>2010</b>	<b>01</b>	<b>16</b>	<b>Put</b>	<b>12.5</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
3010	Yes	GLD	Standard	GLD	GLD	2010	03	20	Put	81	1000		Market Bid/Ask 1.55 - 1.70

3011	Yes	GLD	Standard	GLD	GLD	2010	03	20	Put	81	1000	N/A	Market Bid/Ask 1.55 - 1.70
3012	Yes	GLD	Standard	GLD	GLD	2010	03	20	Put	81	1000	\$1.70	Market Bid/Ask 1.55 - 1.70
3013	Yes	GLD	Standard	GLD	GLD	2010	03	20	Call	97	1000		Market Bid/Ask 8.30 - 8.60
3014	Yes	GLD	Standard	GLD	GLD	2010	03	20	Call	97	1000		Market Bid/Ask 8.30 - 8.60
3015	Yes	GLD	Wrap	GVJ	GLD	2010	03	20	Put	150	1000	\$53.80	Market Bid/Ask 53.20-53.80
3016	Yes	GLD	Wrap	GVJ	GLD	2010	03	20	Put	150	1000		Market Bid/Ask 53.20-53.80
4001	Yes	INTC	Wrap	NQ	INTC	2010	01	16	Put	21	1000	\$1.28	Market Bid/Ask 1.24 - 1.28
<b>4002</b>	<b>No</b>	<b>ACAS</b>	<b>Corp. Act.</b>	<b>DJK</b>	<b>ACAS1</b>	<b>2010</b>	<b>01</b>	<b>16</b>	<b>Put</b>	<b>7.5</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
5001	Yes	CMCSA	Standard	CCQ	CMCSA	2010	01	16	Call	11	1000	\$5.70	Market Bid/Ask 5.50 - 5.70
<b>5002</b>	<b>No</b>	<b>SPWRB</b>	<b>Corp. Act.</b>	<b>KVY</b>	<b>SPWR1</b>	<b>2010</b>	<b>01</b>	<b>16</b>	<b>Put</b>	<b>15</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

## Production Classes- BOX Specific

Test Case #	Underlying Symbol	Option Symbol (Pre-Consol)	Option Symbol (POST-Consol)	Year	Month	Day	Call/ Put	Strike	BOX SUPPORT	BOX QTY	Price Executed At	Series Quote
6001	NDX	NDK	NDX	2010	06	19	Call	675	Yes	1000	\$3.50	Market Bid/Ask .25 - 3.50
6002	MNX	MNX	MNX	2010	06	19	Call	137.500	Yes	1000	\$33.35	Market Bid/Ask 33.35 - 34.15
7101	PAPER	PAN	PAPX1	2010	03	20	Put	72.875	Yes	1000	\$0.60	Market Bid/Ask .60 - .70
N/A	RIMM	RUP		2010	01	16	Call	40.000	Yes	1000		All Strikes

## Test Classes

- All Supported by BOX
- BOX Qty = 1000 for All Test Classes

Nov. / Dec. / Jan.	Class	Subclass	Underlying	Opt Sym pre-Consol	Opt Sym post-Consol	Expiration	Call/ Put	Strike	Comments	Prod Class To Model After	Closing Price Used For Test
Conv	Equity	Standard	P	P	P	4/17/2010	C/P	127.5	All Test Dates	DIA	\$94.45
Conv	Equity	Standard	P	P	P	12/19/2009	C/P	127.5	December Test	DIA	\$94.45
Conv	Equity	Standard	PAT	PAT	PAT	6/19/2010	C/P	7.5	All Test Dates	AA	\$12.18
Conv	Equity	Standard	PAT	PAT	PAT	12/19/2009	C/P	10.5	December Test	AA	\$12.18
Consol	Equity	Quarterly	PAPE	PAM	PAPE	3/31/2010	C/P	65	All Test Dates	GD	\$60.48
Consol	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	3/20/2010	C/P	72.875	All Test Dates	V	\$70.36
Consol	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	12/19/2009	C/P	75.875	December Test	V	\$70.36
Conv	Index	Standard	INK	INK	INK	2/20/2010	C/P	325	All Test Dates	XNZ	\$450.20
Conv	Index	Standard	INK	INK	INK	12/19/2009	C/P	328	December Test	XNZ	\$450.20
Conv	Index	Weekly	INK	INJ	INK	2/12/2010	C/P	275	All Test Dates	POW	\$262.50

### Corporate Action: 3 For 2 Corporate Action

Current Option Symbols: 3 for 2	Post Option Symbols	BOX Support	BOX Qty
JNJ	JNZ	Yes	1000
VJN	JVX	Yes	1000
WJN	WJG	Yes	1000
<b>2JNJ</b>	<b>2JNZ</b>	<b>No</b>	<b>N/A</b>

### Corporate Action: 2 For 1 Corporate Action

Current Option Symbols: 2 for 1	Post Option Symbols	BOX Support	BOX Qty
HAR	Unchanged	Yes	1000
HUZ	Unchanged	Yes	1000
<b>2HAR</b>	<b>Unchanged</b>	<b>No</b>	<b>N/A</b>

### Accelerated Expiration on Non-consolidated Class (Executed During All Scheduled Tests)

Action : Accelerated Expiration to Test Month	Current Symbols	BOX Support	BOX Qty
Sequenom, Inc. (SQNM)	QJQ	Yes	1000
Sequenom, Inc. (SQNM)	QPJ	Yes	1000
Sequenom, Inc. (SQNM)	XUW	Yes	1000

## 7. Post Testing

Following the completion of the OSI Weekend testing event, BOX will work with the OCC to confirm the BOX Participant list and support Participants as needed.

If not already completed, BOX encourages all Participants to perform an independent certification with BOX by contacting Robert Petro via the BOX Symbology email box: [boxosi@bostonoptions.com](mailto:boxosi@bostonoptions.com).

### Contact

Please contact the Market Operations Center at (866) 768-8845 or by e-mail at [boxmoc@bostonoptions.com](mailto:boxmoc@bostonoptions.com) if you require assistance or any additional information regarding this Technical Notice.

Thank you,  
BOX Participant Connectivity Coordinator