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Special Note / Disclaimer

The information provided in this document is in draft format. It is being provided to the OSI Testing Subcommittee for review and to facilitate detailed discussions on how the overall scripted industry test process will unfold.

Dates, other than the actual testing dates are approximate which may vary by a couple of days in the final version of this document. Times are approximate which also may vary in the final version of this document.

Specific exchange highlights will be added into the document as they are provided such that the final version of this document will be a comprehensive scripted industry testing document.

Summary Of Changes:

Version	Date	Description
3.3	11/4/009	<p>Summary Of Changes:</p> <ul style="list-style-type: none"> - New section added to summarize the changes from the prior published version. All shading from previous distributions that was used to identify changes has been removed <p>Section 5.4:</p> <ul style="list-style-type: none"> - Updated sub-classification for VNL from blank to LEAP - Updated sub-classification for NDX from ½ Point to Standard - Removed FLEX 2BKX30 and 3JDK09 no longer in test plan - Removed LZO , no longer in the test plans. <p>Section 5.5:</p> <ul style="list-style-type: none"> - Split out corporate action and accelerated expiration test scenarios into a new section that provided more detail surrounding the corporate action process. <p>Section 6.3:</p> <ul style="list-style-type: none"> - Table has been updated to provide more detail on DDS distribution/ - 2 For 1 Corporate Action has been added <p>Section 6.4:</p> <ul style="list-style-type: none"> - Table has been updated to provide more detail on DDS distribution/ - 2 For 1 Corporate Action has been added <p>Section 6.5:</p> <ul style="list-style-type: none"> - Table has been updated to provide more detail on DDS distribution/ - 2 For 1 Corporate Action has been added
3.4	11/12/2009	<p>Section 5.2</p> <ul style="list-style-type: none"> - Bridge conference number for NYSE AMEX and NYSE ARCA updated.
4.0	11/20/2009	<p>Version 4 begins tracking changes for the December SIT.</p> <p>Section 2</p> <ul style="list-style-type: none"> - Updated table to reflect December 12, 2009 test change from conversion to consolidation. <p>Section 5.4</p> <ul style="list-style-type: none"> - Updated table to reflect the December test being the same as the November and January tests. <p>Section 5.5.1</p> <ul style="list-style-type: none"> - Updated table to reflect December testing being the same as November and January tests. <p>Section 5.5.2</p> <ul style="list-style-type: none"> - Updated table to reflect December testing being the same as November and January tests. - Updated table contents to accurately reflect the November, December and January 2:1 stock split to Harman International Industries.

		<p>Section 6.4</p> <ul style="list-style-type: none"> - Updated to reflect December testing being the same as the November and January Tests. Early DDS 12/3/2009 and 12/4/2009 <p>Section 6.4.1</p> <ul style="list-style-type: none"> - Updated to reflect new starting snapshot of Market Open 11/30/2009 - Updated to reflect setup DDS being published 12/3/2009 and 12/4/2009 <p>Section 6.5</p> <ul style="list-style-type: none"> - Updated notes to indicate that DDS publishing times are based off of the actual time from the November SIT.
4.1	11/25/2009	<p>Section 5.4</p> <ul style="list-style-type: none"> - Test symbol PAP replaced with PAT. <p>Section 6.4</p> <ul style="list-style-type: none"> - Table updated to reflect the 1:30 p.m. shutdown of the ISE test environment. - Table updated to reflect changes to expiration processing for December SIT.
4.2	11/30/2009	<p>Section 6.4</p> <ul style="list-style-type: none"> - Updated table description to reference December test as a consolidation test not a conversion test. - Changed two November dates to their appropriate December dates.
5.0	12/12/2009	<p>Begins the updates related to January 2010 SIT Tests</p> <p>Section 3.1</p> <ul style="list-style-type: none"> - Updated to reflect the change to Exchange testing environments for the January Tests. <p>Section 4.2.3</p> <ul style="list-style-type: none"> - Updated to reflect CBOE's support of production for the January 9, 2010 test and certification for the January 30, 2010 test. <p>Section 4.3.3</p> <ul style="list-style-type: none"> - Updated to reflect ISE only supporting Production for January 9, 2010 test and only supporting Certification Environment for the January 30, 2010 test. <p>Section 4.6.3</p> <ul style="list-style-type: none"> - Updated to reflect NYSE supporting Production for January 9, 2010 and certification for the January 30, 2010 test. <p>Section 5.4</p> <ul style="list-style-type: none"> - Production Class table updated to reflect that CBOE will not support the consolidation of production classes for the 1/9/2010 test. - Test Class table updated to reflect the consolidation of all test classes during the January 2010 tests. <p>Section 6.5</p> <ul style="list-style-type: none"> - Update to reflect the details surrounding the 1/9/2010 testing effort. <p>Section 6.6</p> <ul style="list-style-type: none"> - Added to reflect the addition of a final SIT test on 1/30/2010.
5.1	12/22/2009	<p>Section 5.4</p>

		<ul style="list-style-type: none"> - Updated recommended production class table to indicate that MNX, NDX, VIX, BSZ, SPX will not consolidate for the January 2010 tests. - Updated the test class table to add in a Wrap and LEAP series for class PAPE. <p>Section 6.5</p> <ul style="list-style-type: none"> - Updated table to reflect expiration Saturday extending until Noon on Tuesday, 1/19/2010. <p>Section 6.6</p> <ul style="list-style-type: none"> - Updated table to indicate that preliminary DDS will be available on Thursday, 1/21/2010.
5.1	5.2	<p>Section 5.3</p> <ul style="list-style-type: none"> - Updated CBOE contact information for the 1/9/2010 test. <p>Section 5.4</p> <ul style="list-style-type: none"> - Updated expiration date type for the PAPE 3/2011 test LEAP series from 3/9/2011 to 3/19/2011. <p>Section 5.5.1</p> <ul style="list-style-type: none"> - Updated the Johnson and Johnson 3 for 2 corporate action details to reflect WJN going to WJK.
5.2	5.3	<p>Section 5.3</p> <ul style="list-style-type: none"> - Updated NYSE AMEX and NYSE ARCA contact information for the 1/9/2010 meeting. -
5.3	6.0	Updates related to the 1/30/2010 test
6.0	6.1	<p>Section 3.1</p> <ul style="list-style-type: none"> - Updated to reflect NYSE AMEX and NYSE ARCA using production environments for the January 30, 2010 test. <p>Section 5.4</p> <ul style="list-style-type: none"> - Shaded the expired series in the Test Classes Table - Added 2 new INK series <p>Section 5.5</p> <ul style="list-style-type: none"> - Updated to reflect that Corporate Actions and Accelerated Expiration process will not be executed during the January 30, 2010 Test.

1 Introduction

The purpose of scripted industry testing is to provide a testing arena in which Broker Dealers, Exchanges, Utilities, and Market Data vendors can practice the overall OSI implementation prior to the February 12, 2010 launch date. Scripted Industry Testing will be executed on selected weekends and simulates Front Office processing through Back Office Clearance and Settlement in environments that are isolated from production.

Scripted Industry should not be the first round of testing done by any participants. It should be viewed as the culmination of internal and targeted external testing efforts. During scripted industry testing participants will be able to simulate a full trading day and the hand-offs between external parties utilizing the new OSI formats. It is the responsibility of each participant to determine the extent of internal and external testing that will be executed during these tests along with the environments and communication interfaces that will be used.

2 Test Dates

Scripted industry testing will take place on the Second Saturday of every month September 2009 – January 2010. Specific dates and test details are provided in the table below:

Test Date	Test Name	Description
September 12, 2009	OSI Beta Test	Preliminary test with Exchanges, OCC, OPRA, Vendors and Limited Broker Dealer participation to run through the Phase I testing that will take place in October
October 10, 2009	Phase I Scripted Industry Test – OSI Conversion	Phase I testing simulates the February 12, 2010 implementation. All testing will be in an environment absent OPRA codes and Equity strike prices will be converted from fractional representation to decimal representation. Although the test simulates the activities that will take place on February 12, 2010 the testing effort will not be utilizing that specific date.
November 14, 2009	Phase II Scripted Industry Test – OSI Consolidation	Phase II testing simulates the consolidation process and subsequent trading and clearing using post consolidation symbology.
December 12, 2009	Phase II Scripted Industry Test – OSI Consolidation	Phase II testing simulates the consolidation process and subsequent trading and clearing using post consolidation symbology.
January 9, 2010	Phase II Scripted Industry Test – OSI Consolidation	Phase II testing simulates the consolidation process and subsequent trading and clearing using post consolidated symbology. All Exchanges will support this test out of Production Environments.
January 30, 2010	Phase II Scripted Industry Test – OSI Consolidation	Phase II testing simulates the consolidation process and subsequent trading and clearing using post consolidated symbology. ISE, CBOE, NYSE AMEX and NYSE ARCA will support this test out of Certification environments. BOX, NASDAQ and NASDAQ OMX PHLX will use production environments.

2.1.1 Phase I Testing

Phase I testing simulates processing in a post conversion OSI environment. During this testing effort OPRA Codes have been eliminated and the definition of equity strike prices has been converted from fractional to decimal values. Participants are expected to processing internally as well as externally utilizing the full OSI key. Phase I testing requires the use of the full OSI key however that actual symbols have not been changed to reflect the underlying stock symbol. During phase I unique Standard, Leap, Wrap, Quarterly symbols will still exist. The chart below provides the details of how the symbology key changes from current usage to Phase I usage.

2.1.2 Phase II Testing

Phase II testing simulates processing in a post consolidation environment. During this testing effort selected classes will be consolidated prior to the test and the test scripts will be executed against the consolidated classes. Phase II testing no longer retain unique symbols within the designated classes for Wraps, Leaps, Quarterly, or Weekly options. These variations will all utilize the same symbol and the differences will need to be recognized by utilizing the full OSI key.

In preparation for Phase II testing OCC and the Exchanges will determine the classes to consolidate in advance of the test and make this information available to all participants. OCC will execute the consolidations in there test environment a week prior to the scheduled test and will make the associated consolidation DDS messages available to participants wishing to use this data to load/prepare their test environments.

Refer to the chart in appendix A that provides an example of how the symbology changes from current format to OSI Conversion format to the OSI Consolidation format.

3 OSI Testing Environments

3.1 Exchange Testing Environments

For the September, October, November, December and January 9 tests the following environments will be supported:

Exchange	Sept 2009	Oct 2009	Nov 2009	Dec 2009	Jan 9, 2010	Jan 30, 2010
BOX	Production	Production	Production	Production	Production	Production
CBOE	Certification	Certification	Certification	Certification	Production	Certification
ISE	Production / Certification	Production/ Certification	Production / Certification	Production/ Certification	Production	Certification
NASDAQ	Production	Production	Production	Production	Production	Production
NASDAQ OMX PHLX	Production	Production	Production	Production	Production	Production
NYSE AMEX	Certification	Certification	Certification	Certification	Production	Production
NYSE ARCA	Certification	Certification	Certification	Certification	Production	Production

**January 30, 2010 ISE will only support Certification Environment*

Exchange Members participating in the scripted industry testing have the following alternatives when interfacing and establishing network connections with the exchanges:

1. Connect production environment to exchange production environment
2. Connect members test environment to exchange production environment. Members will be responsible for managing the connectivity on their own networks over existing communication lines.
3. Connect members test environment only to the exchanges Cert environments and participate in SIT with a limited number of exchanges. Members will be responsible for managing the connectivity of their own networks over existing lines.

3.2 OCC Testing Environment

OCC will be utilizing a separate testing environment for **all** OSI testing. Participants planning to interface with OCC will be required to establish connectivity (over existing production lines) to this environment. OCC will support all production forms of connectivity to this environment:

- Connect Direct / NDM Push
- FTP+
- MQ

Technical Specification forms can be requested via the OCC OSI Testing email address:

OSI_Testing@theocc.com

4 Participation Highlights

4.1 BOX Exchange

4.1.1 Introduction

BOX will participate in the industry-wide testing for OSI preparedness. Scripted industry testing will occur on a schedule determined with OCC.

4.1.2 Test Preparation

BOX strongly encourages all FIX and SAIL participants, service vendors and data vendors to certify their systems for Symbology compliance with BOX prior to the beginning of Scripted Industry Testing; however, if not possible, certification is available through December 15, 2009.

For the IST events, participants planning on testing with BOX should contact Robert Petro at (312) 444-6341 or BOXSymbologyInitiative@bostonoptions.com.

4.1.3 Test Facility

The BOX production environment will be used for OSI weekend testing events.

4.1.4 Services

- The actual test date (Saturday) will be used as the trade date.

- Trades executed during the test will be delivered to OCC for processing and subsequent adjustments by clearing firms.
- Quotes will be delivered to OPRA.
- There will be sufficient liquidity in identified symbols to provide executions.

4.1.5 Schedule

BOX will follow the OCC schedule for testing.

4.1.6 Contacts

- Robert Petro, Director of Quality – (312) 444-6341
- Market Operations Center – (866) 768-8845, BOXMOC@bostonoptions.com

4.1.7 Relevant Links

[Boston Options Exchange Symbology Initiative](#)

4.2 CBOE Exchange

4.2.1 Introduction

CBOE plans to participate in all OSI sponsored industry tests. This will provide end to end testing for orders quotes, and executions.

4.2.2 Test Preparation

Registration: Firms wishing to connect to CBOE for the weekend OSI test must register with CBOE in advance of the test. This is in addition to the registration required by the OCC.

Registration can be done by emailing API@CBOE.COM.

Certification: Firms connecting to CBOE for the weekend OSI test must have completed the OSI certification process.

Certification testing can be scheduled with the CBOE API group at API@CBOE.com

4.2.3 Test Facility

CBOE will primarily support testing out of their Certification environment. Please refer to the table below which indicates the environment usage by test date.

Test Date	Production Environment	Certification Environment
September 12, 2009	N/A	Available
October 10, 2009	N/A	Available
November 14, 2009	N/A	Available
December 12, 2009	N/A	Available
January 9, 2010	Available	N/A
January 30, 2010	N/A	Available

For all testing efforts the following will be available:

- CBOE Direct will be available for quoting and trading
- CTMR/CTMI will be available for trade match processing.
- CFLEX will be available for FLEX trades (Not available for the September 12 test)

4.2.4 Services

- Order and quote entry will be available via FIX or CMI
- CBOE will provide market data to OPRA.
- CBOE will provide matched trade files to OCC and EOD reports to the Member Firms.
- CBOE will provide liquidity to trade against the scripted firm orders.

4.2.5 Schedule

CBOE will work within the detailed schedules associated with each test

4.2.6 Relevant Links

Please refer to the CBOE Symbology page for updates to the OSI project and Testing Support.
<https://systems.cboe.com/OptionSymbologyLandingPage.aspx>

4.3 ISE Exchange

4.3.1 Introduction

As part of the industry wide OSI preparedness, the ISE will participate the OSI Industry scripted tests allowing all members of the exchange to validate the End-to-End OSI infrastructure. The information below provides a high level view of how the ISE will support the test.

4.3.2 Test Preparation

Exchange members are encouraged to formally register for participation in scripted industry via the OCC website.

4.3.3 Test Facility

ISE will utilize production and certification environment to support OSI Scripted Industry Testing. Please refer to the table below which indicates the environment usage by test date. It is highly recommended that each ISE member have at least in the production environment. All member gateways will be available.

Test Date	Production Environment	Certification Environment
September 12, 2009	Available	Available
October 10, 2009	Available	Available
November 14, 2009	Available	Available
December 12, 2009	Available	Available
January 9, 2010	Available	N/A
January 30, 2010	N/A	Available

4.3.4 Services

- The ISE will use the actual test date as the trade date. (Refer to scheduled activities above.)
- ISE will allow members to preload orders prior to the test on the test day
- The ISE will connect to OCC for trade processing.
- Quotes and trades will be provided to OPRA.
- The ISE will provide contra Quotes with a sufficient liquidity on both sides and contra Orders upon request.
- The ISE will support the industry set of “live” and test symbols.

4.3.5 Schedule

ISE will work within the detailed schedules associated with each test

4.3.6 Relevant Links

[ISE Implementation Plan](#)
[ISE Technical Specifications](#)

4.4 NASDAQ Exchange

4.4.1 Introduction

Please contact the exchange for specific information related to Scripted Industry testing. This document will be updated with additional information as provided.

4.4.2 Relevant Links

[NASDAQ OMX Options Symbology Initiative FAQ](#)

4.5 NASDAQ OMX PHLX Exchange

4.5.1 Introduction

As part of the industry wide OSI preparedness, the NASDAQ OMX PHLX will participate in the OSI Industry scripted tests allowing members of the exchange to validate the End-to-End OSI infrastructure.

The purpose of this document is to provide information that will assist NASDAQ OMX PHLX member firms with their planning and preparation to participate in the OSI industry test program.

4.5.2 Test Preparation

All firms participating must register with NASDAQ OMX PHLX Subscriber Services at least three weeks before each test (preferably much earlier).

The contact for registration is: Jill Smith, Subscriber Services, 215.496.5473, Jill.Smith@nasdaqomx.com

Registration requires firms to provide the following information:

1. Firm name and role in testing (order providing firm, liquidity provider (SQF users), clearing member)
2. Contact name, phone and email of the party responsible for coordinating and conducting all aspects of the firm's participation in OSI scripted industry testing with NASDAQ OMX PHLX
3. Name and phone number of the person responsible as acting test coordinator on the test date.
4. Identification of each service the firm will utilize (see Services below) including identification of each end of day reports or transmissions they desire to receive

Firms are **Strongly Encouraged** to execute Firm Testing with NASDAQ OMX PHLX in advance of the OSI scripted testing to maximize chances of success in scripted testing. Firm Testing scripts and related information can be obtained by contacting Jill Smith at Subscriber Services.

Firms are responsible to ensure the disabling of any "smart routers" that might redirect their orders intended to execute at NASDAQ OMX PHLX to some other exchange based on market prices. This is necessary because all market participants will be quoting all the symbols identified for the OSI scripted test cases.

Firms are encouraged to identify and document the specific option series they wish to use in each test case prior to the date of the test to maximize efficiency in testing. The symbol set for each test date is based on the OCC's capture of data on the close of business the Friday before the scheduled test date (reference OCC OSI scripted industry testing calendar)

4.5.3 Testing Facility

- The XL II production system will be used for OSI scripted industry testing.
- Firms will connect to their XL II production IP and port addresses as they would for a normal production day. (Firms are advised to have network engineering support available to quickly troubleshoot any communications issues that may arise if the firm is using systems other than their normal production systems)

- NASDAQ OMX PHLX will connect with OPRA's production system and submit quotes and trades for dissemination to the National Market System
- NASDAQ OMX PHLX will connect with the OCC's OSI Testing Environment via real-time ENCORE interfaces and provide matched trades for processing by OCC.

4.5.4 Services

The real-time trading system interfaces to XL II will be supported. These are:

- Specialized Quote Feed (SQF)
- Specialized Order Feed (SOF)
- Firm FIX Engine (FFE)
- Risk Management Feed (RMP)
- Top Of PHLX Options (TOPO) - New interface beginning August 2009

Real-time matched trade transmission to OCC for processing via the ENCORE system

End of day reports or transmissions will be provided to firms upon request made in advance. Access to end of day services requires advance notification to Subscriber Services of each report the firm wishes to receive. This request is required at the time of registration for the test.

4.5.5 Schedule

Time [ET]	Activity
0700 – 0900	Connectivity established. Firms may enter pre-market orders during this time if they so desire however pre-market orders are not considered part of the scripted test cases.
0900 – 1400	Firms enter orders and cancels according to the OSI scripted industry test cases.
	Market makers and specialists enter quotes and sweeps against orders or other quotes. Market makers are advised to quote in classes other than those designated in OSI scripted test cases to potential to disrupt execution of orders entered by firms.
	Exchange executes FLEX test cases and trade bust or corrections on trades of firm orders according to OSI scripted test cases
	Exchange sends matched trades to OCC for clearing and quotes and trades to OPRA for dissemination.
1400	Exchange end of day processing. Reports and transmissions to firms will be available as soon after 1400 as possible. No definite deadline can be committed to at present.

4.5.6 Relevant Links

[OCC Symbology Initiative - OSI Testing](#)

[NASDAQ OMX PHLX Technical Specifications](#)

4.6 NYSE Arca & NYSE Amex Exchange

4.6.1 Introduction

NYSE Arca and NYSE Amex will be participating in the industry-wide testing for OSI preparedness. Scripted industry testing will occur on a schedule determined with OCC; please see below.

4.6.2 Test Preparation

Prior to the beginning of Scripted Industry Testing, NYSE Arca and NYSE Amex will provide opportunities for OTP holders to certify their order entry and back office systems for OSI compliance.

- All firms are strongly encouraged to certify with the exchanges prior to the beginning of scripted industry testing.

4.6.3 Test Facility

NYSE AMEX and NYSE ARCA will primarily support testing out of their Certification environment. Please refer to the table below which indicates the environment usage by test date.

Test Date	Production Environment	Certification Environment
September 12, 2009	N/A	Available
October 10, 2009	N/A	Available
November 14, 2009	N/A	Available
December 12, 2009	N/A	Available
January 9, 2010	Available	N/A
January 30, 2010	N/A	Available

4.6.4 Services

- The actual test date (Saturday) will be used as the trade date.
- Trades executed during the test will be delivered to OCC for processing and subsequent adjustments by clearing firms.
- Quotes will be delivered to OPRA.
- There will be sufficient liquidity in identified symbols to provide executions.

4.6.5 Schedule

NYSE will work within the detailed schedules associated with each test.

4.6.6 Relevant Links

[NYSE Arca Symbology Initiative](#)

4.6.7 Industry Test Details ***Needs to be updated for PROD***

Customers who wish to test to participate in the October, November, December or January tests will need to connect to their existing test connections on the following servers:

ArcaDirect Servers (Arca and Amex)

Chicago – 65.171.224.241

Ports: 52204 (Version 3.2 Logins)

52205 (Version 4.0 Logins)

New Jersey – 63.160.215.184

Ports: 52204 (Version 3.2 Logins)

52205 (Version 4.0 Logins)

MarketMaker Direct Servers

Chicago – 65.171.224.241 (Arca)

Ports: 47900

New Jersey – 63.160.215.184 (Arca)

Ports: 47900

New Jersey – 208.92.192.40 (Amex)

Ports: 47900

FIX Servers (Arca and Amex)

Chicago – 65.171.224.199

Chicago – 65.171.224.219

Chicago – 65.171.224.241

New Jersey – 63.160.215.184

Options Market Data

Current OX CERT Breakout (Arca)

Subscription	Type	Underlyings	Primary Multicast IP	Primary Port	Secondary Multicast IP	Secondary Port
0	Depth	A-CSCO	224.1.2.27	10010	224.1.2.47	20010
1	Depth	CSE – MSFT	224.1.2.27	10011	224.1.2.47	20011
2	Depth	MSM - ZZ	224.1.2.27	10012	224.1.2.47	20012
3	Depth	Penny Pilots	224.1.2.27	10013	224.1.2.47	20013
4	Top	AA - ARE	224.1.2.27	10014	224.1.2.47	20014
5	Top	ARG - BRNC	224.1.2.27	10015	224.1.2.47	20015
6	Top	BRO - CNX	224.1.2.27	10016	224.1.2.47	20016
7	Top	Penny Pilots	224.1.2.27	10017	224.1.2.47	20017
252	Complex	A-ZZ	224.1.2.27	10080	224.1.2.47	20080
253	Series Status	A-ZZ	224.1.2.27	10070	224.1.2.47	20070
254	Auction Imbalance	A-ZZ	224.1.2.27	10060	224.1.2.47	20060
255	Last Sales	A-ZZ	224.1.2.27	10050	224.1.2.47	20050

TCP Source IP CERT addresses

The table below outlines the TCP Source IP addresses, applicable to each Port.

TCP Source IP CERT NYSE ARCA
63.211.72.xxx

4.7 OCC

4.7.1 Introduction

As part of the industry wide OSI preparedness, the OCC will participate in all phases of the OSI scripted industry testing allowing OCC Clearing Members to validate their End-to-End OSI infrastructure and business process. OCC's participation in scripted industry testing includes Daily, Expiration Friday, and Expiration Saturday processing as identified within each scripted industry test. OCC will support these testing initiatives with a dedicated staff, in a separate testing environment in accordance with the schedules documented above.

4.7.2 Test Preparation

The Options Clearing Corporation ("OCC") and its participant exchanges are fully committed to ensuring that the trading, clearance and settlement of listed options continues without significant interruptions throughout the implementation of the Options Symbology Initiative (OSI). OCC is requiring full member participation in the OSI Scripted Industry Testing. This mandatory industry-wide testing will be an important tool in assessing industry readiness which will begin in September 2009 and continues through January 2010.

To satisfy OCC's prerequisites for participation in scripted industry testing OCC Clearing Members will need to do the following:

- Establish connectivity from your OSI testing environment to OCC's designated OSI testing environment.
- Verify that you can send and receive data between the two OSI test environments.
- Verify that the inbound formats are accurate (should verify all appropriate formats that are utilized by your firm are formatted appropriately)
- Determine who needs on-line GUI access to the OCC's OSI External ENCORE environment and provide that list of users to OCC.
- Once OCC has enabled the above mentioned users have those users validate that they can successfully access the OCC's OSI External ENCORE environment.
- Formally register for participation in scripted industry testing

4.7.3 Test Facility

The OCC will utilize a separate testing environment for all OSI testing and will support all current production modes of communication in the OSI Test Environment:

- FTP+
- NDM/Connect Direct
- MQ (Real-time)

4.7.4 Post Trade Submission

Clearing Members can enter post trades to adjust or transfer positions. Post trades can be entered anytime within testing hours as identified in the test schedule.

All counter-party transactions (Transfers) that are left unclaimed when the EE window closes will be accepted by the OCC prior to finalization. Requests to reject specific transactions should be communicated directly to your OCC member services representative.

There are several ways that a Clearing Member can send test data to OCC:

- External ENCORE GUI
 - Users requiring access to the ENCORE GUI will have their production ID authorized for access upon formal request to OCC
- Real Time
- NDM/Connect:Direct
 - Transmit dataset: EOCN.OSI.PT999UR.NDMREC.CM00xxx.FXML.PTTRAD
 - This is the same format that was used during certification testing with OCC.
- FTP+
 - Transmit dataset: occ/exttest/clients/cmo_xxx_test/input/posttrade_cm00xxx.xml
 - Please ensure that FTP+ files are transmitted to the External Test directory and not Production
 - This is the same format and procedures that were used during certification testing with OCC.

Real time users, please close your channel if you do not want to receive or would like to control when you receive post trade messages. Batch users, DDS output will be available per the schedule.

All production post trade transactions will be supported (GUI and FIXML) during scripted industry testing. This includes:

ENCORE GUI & Inbound FIXML Post Trade Types
Exercise Notice
Transfer of Account
Position Adjustment
CMTA Transfer
Allocation
Spread Instructions
Expiring Exercise Declaration (EED)
Do Not Exercise Declaration (DNED)

4.7.5 DDS Transmission

Batch DDS Subscriptions were restored from production as of End of Day Friday, June 26th. Real Time DDS subscriptions were not restored; subscriptions will need to be coordinated during certification testing.

Only Options subscriptions will be published during Scripted Industry testing; Future and Option on Futures subscriptions will be disabled. The following Options transmissions will not be produced during Scripted Industry Testing:

- Collateral Response / End of Day¹
- Cross Margin and Early Prices
- Delta Position Limits
- Midday Corporate Actions
- SOSA Early/Late Valid, Exception and Error and SOSA End of Day files

Batch files will be produced per the schedule and can be retrieved as follows:

- FTP+ firms will find the files in their test directory
- Certified NDM users will have data pushed out of every test cycle. Firms will be responsible for managing the multiple files the will be pushed to them during the testing effort.

Real time users, should close their channel if they do not want to receive or would like to control when they receive real-time messages.

4.7.6 Reports

On Demand Reports:

Clearing Members can verify that the inbound transactions to OCC have been received and processed via the Machine Readable Audit Trail On-Demand Report. This report can be accessed via ENCORE/Reports/On-Demand under the Position topic.

Core Reports:

The primary core reports that will be available include Positions Activity; other reports may or may not be available depending on the business date.

There are multiple OCC test environments that feed into this Core Report repository. Please follow the below when accessing core reports through External ENCORE.

From the Clearing Membership Core Report filter

- (1) Select the applicable CM#
- (2) Select the applicable Topic and All
- (3) Select the Specific Date (this ties to Business or Activity Date; not Calendar Date).

! Do not choose Current and do not do a Range of Dates

¹ Collateral DDS transmissions will be made available as part of the roundtrip testing with DTC. This testing is scheduled for the September/October 2009 timeframe.

ENCORE > EXTERNAL TESTING > Reports > Core > Clearing Membership

Clearing Membership Core Reports Filter

CMO:

* Clearing Group: OCC * CM#:

* Topic: Positions Report: All

Current

Date: Specific Date March 2009

Range From To

4.7.7 Schedule

Time [ET]	Activity
0700 – 0900	Connectivity established/validated. Participants are urged to validate the connectivity between their designated testing environment and OCC's prior to the start of the test.
0900 – 1500	Firms enter post trade transactions. Post trade transactions entered during the test should be a representative sample of the transactions that are normally done in production on a daily basis.
	Post trade transactions will be accepted via the on-line GUI, batch FIXML or real-time FIXML
	On demand reports will be available to monitor and validate transactions.
	Real-time inbound and outbound transactions will be accepted and processed for participants who have successfully established real-time connectivity to OCC's testing environment (prior to the Scripted Industry test date).
15:00	OCC positions finalization and end of day processing begins. Please refer to the schedules above for detailed information on when DDS will be published.

4.7.8

4.7.9 Relevant Links

[OCC Options Symbology – Testing](#)

5 Scripted Industry Testing

5.1 Registration

5.1.1 General Registration

Formal registration is required for participation in scripted industry testing. Participants are encouraged to register in advance. The registration cutoff date for each testing date will be the first business date of each test month. (See table below). Registration can be done for all testing efforts at once or each test can be

registered for separately. If registering separately please submit a new form for each registration. Registration can be done from the Options Clearing Corporations OSI Testing Website located at:

http://www.optionsclearing.com/initiatives/symbology/osi_testing.jsp.

5.1.2 NASDAQ OMX PHLX Registration

All firms participating with NASDAQ OMX PHLX must also register with Subscriber Services at least three weeks before each test (preferably much earlier). The contact for registration is:

Jill Smith, Subscriber Services | 215.496.5473 | Jill.Smith@nasdaqomx.com

5.1.3 CBOE Registration

All firms participating with CBOE must also register directly with the exchange. The contact for registration is: CBOE API group at API@CBOE.com

5.1.4 BOX Registration

All firms participating with BOX must register with the exchange. The contact for registration is: BOXMOC@bostonoptions.com

5.1.5 NYSE AMEX & NYSE ARCA Registration

All firms participating with NYSE AMEX and NYSE ARCA need to register with the exchange and provide the information listed below to ensure that Domains and GroupIDs are setup properly in the Cert environment. The contact for registration is connectivity@nyx.com

- Their FIX/ArcaDirect connection in Test
- Their FIX/ArcaDirect Connection in Production

5.2 Test Day Communication

Throughout the scripted industry test cycles, regularly scheduled updates will be posted to the OSI Blog spot located at: <http://osi-testing.blogspot.com/>.

The following table will be used report status (**Contents are for illustrative purposes only and do not reflect actual status**):

Exchange	OSI Env	Connectivity	Performance	Scripts	Classes	Execution/ Liquidity	OCC Interface
BOX	Prod						
CBOE	Test			See Below	See Below	See Below	See Below
ISE	Prod						
ISE	Test						See Below
NASDAQ	Prod						
NASDAQ OMX PHLX	Prod						
NYSE AMEX	Cert						
NYSE ARCA	Cert						
OCC	Test		See Below				

CBOE Details: (Sample Data)

Scripts: Test case 7001 and 7002 not supported during 11/14/200 test.
Classes: Class XYZ not supported for Nov Test. Please substitute VZ
Execution: GLD execution delayed due to liquidity issues. Exchange evaluating.
OCC Interface: ½ point strike format issue. Trades pending at OCC.

ISE Details: (Sample Data)

OCC Interface: Trades from test environment will not be passed to OCC for processing until Mock trading cycle has completed.

OCC Details: (Sample Data)

Performance: Currently experiencing long delays in processing transactional data. All participants impacted.

Addition information may also be provided as text outside of the status chart. Participants are encouraged to monitor this website for information regarding the status / progress of the test. Please note, the information reported on the blog is an overall status for the organizations reporting.

Exchange specific issues should be reported directly to the exchanges. OCC specific issues should be reported directly to OCC.

5.3 Scripted Industry Testing Contact Information

During the scripted industry testing the following list of contacts should be utilized to report any problems, issues or concerns. Utilization of the identified contacts will ensure that issues are addressed in a timely organized manner and that all of the appropriate resources (internal and external) are informed.

Exchange / Utility	Contact Information
BOX	Market Operations Center at (866) 768-8845 BOXMOC@bostonoptions.com
CBOE	Pre-connectivity questions: (312) 786-7300 Saturday January 9th contacts: - (312) 786-7642.
ISE	Market Operations – Desk: - 1-877-473-9989 (Office) Production Test Lead – Katrina Lukacs: - 1-877-473-9989 (Office) - 1-917-826-2853 (Cell) Computer Operations Lead: - 1-212-897-0287 Network Operations – Desk: - 212-897-0287 (Office) Helpdesk@ise.com

NASDAQ Options	Trading Services: 1-212-231-5180 Option "1" NOC: 1-212-231-5049
NASDAQ OMX PHLX	NOC: 1-212-231-5250
NYSE AMEX	Bridge Number For Use By Test Participants: Conf. Number: (877) 807-5706 Participant code: 145676
NYSE ARCA	Bridge Number For Use By Test Participants: Conf. Number: (877) 807-5706 Participant code: 145676
OCC	Help Desk US: 1-800-621-6072 Help Desk Canada: 1-800-424-7320 Email: osi_testing@theocc.com
SIAC	OPRA Operations 1-212-383-9231

5.4 OSI Scripted Industry Classes

The OSI Scripted Industry Test will utilize production classes, open interest and series. In an attempt to isolate the testing effort the following production classes have been recommended for use during scripted industry testing:

Oct.	Nov. / Dec.	Jan. 30, 2010	Class	Subclass	Underlying	Opt Sym pre-consolidation	Opt Sym post-consolidation
Conversion	Conversion	Conversion	Equity	Standard	F	F	F
Conversion	Consolidation	Consolidation	Equity	Leap	VZ	VBU	VZ
Conversion	Consolidation	Consolidation	Equity	Corp. Act	VZ	WLR	VZ1
Conversion	Consolidation	Consolidation	Equity	Corp. Act	CX	IZX	CX2
Conversion	Consolidation	Consolidation	Equity	Standard	GLD	GLD	GLD
Conversion	Consolidation	Consolidation	Equity	Leap	GLD	OQA	GLD
Conversion	Consolidation	Consolidation	Equity	Wrap	GLD	GVJ	GLD
Conversion	Consolidation	Consolidation	Equity	Quarterly	XLE	GQQ	XLE
Conversion	Consolidation	Consolidation	Equity	Corp. Act	OIH	KXN	OIH3
Conversion	Consolidation	Consolidation	Equity	Corp. Act	OIH	DXM	OIH4
Conversion	Consolidation	Consolidation	Equity	Corp. Act	STD	WVR	STD1
Conversion	Consolidation	Consolidation	Equity	Wrap	INTC	NQ	INTC
Conversion	Consolidation	Consolidation	Equity	Leap	INTC	VNL	INTC
Conversion	Consolidation	Consolidation	Equity	Corp. Act	ACAS	DJK	ACAS1
Conversion	Consolidation	Consolidation	Equity	Standard	CMCSA	CCQ	CMCSA
Conversion	Consolidation	Consolidation	Equity	Corp. Act	SPWRB	KVY	SPWR1
Conversion	Consolidation	Consolidation	Index	Standard	RUT	RUW	RUT
Conversion	Consolidation	Conversion	Index	1/2 Point Strk	MNX	MNX	MNX
Conversion	Consolidation	Conversion	Index	Standard	NDX	NDK	NDX
Conversion	Consolidation	Conversion	Index	Standard	VIX	VQX	VIX
Conversion	Consolidation	Consolidation	Currency	PHLX FCO	XDN	XDN	XDN
Conversion	Consolidation	Consolidation	Currency	PHLX FCO	XDN	JRB	XDN
Conversion	Consolidation	Consolidation	Currency	PHLX FCO	XDN	DXC	XDN
Conversion	Consolidation	Consolidation	Currency	ISE FCO	AUX	AUX	AUX
Conversion	Consolidation	Consolidation	Currency	ISE FCO	AUX	XMG	AUX
Conversion	Consolidation	Consolidation	Equity	Std / Suffix	VIAB	VMB	VIAB
Conversion	Consolidation	Consolidation	Equity	Leap / Suffix	VIAB	VVM	VIAB

Oct.	Nov. / Dec.	Jan 2010	Class	Subclass	Underlying	Opt Sym pre-consolidation	Opt Sym post-consolidation
Conversion	Consolidation	Consolidation	Equity	Suffix	RDSA	RDS	RDSA
Conversion	Consolidation	Consolidation	Equity	Suffix	NWSA	NSW	NWSA
Conversion	Consolidation	Consolidation	Equity	Suffix	NWSA	OXV	NWSA
Conversion	Consolidation	Conversion	Index	(Binary)	BSZ	BSK	BSZ
Conversion	Consolidation	Consolidation	Index	Standard	SPX	SXB	SPX
Conversion	Consolidation	Consolidation	Index	Weekly	SPX	JXA	SPX
Conversion	Consolidation	Consolidation	Index	Quarterly	SPXPM	QSE	SPXPM
Conversion	Flex Consolidation Only	Flex Consolidation Only	Equity	FLEX	F	2F 12	2F
Conversion	Consolidation	Consolidation	Equity	FLEX	GLD	2GLD01	2GLD

Please Note:

- **For the January 9, 2010 test the following classes WILL NOT consolidate – MNX, NDX, VIX, BSZ, SPX**
- **For the January 30, 2010 test SPX will consolidate and MNX, NDX, VIX and BSZ will remain unconsolidated.**

There has been a formal request from the broker dealer community to support “Test” symbols in the scripted industry test. The test symbols that will be support are:

Test Classes										
Oct.	Nov. / Dec.	Jan. 2010	Class	Subclass	Underlying	Opt Sym pre-consolidation	Opt Sym post-consolidation	Expiration	Call/Put	Strike
Conversion	Conversion	Consolidation	Equity	Standard	P	P	P	4/17/2010	C/P	127.5
Conversion	Conversion	Consolidation	Equity	Standard	P	P	P	10/17/2009	C/P	127.5
Conversion	Conversion	Consolidation	Equity	Standard	P	P	P	11/21/2009	C/P	127.5
Conversion	Conversion	Consolidation	Equity	Standard	P	P	P	12/19/2009	C/P	127.5
Conversion	Conversion	Consolidation	Equity	Standard	P	P	P	1/16/2010	C/P	127.5
Conversion	Conversion	Consolidation	Equity	Standard	PAT	PAT	PAT	6/19/2010	C/P	7.5
Conversion	Conversion	Consolidation	Equity	Standard	PAT	PAT	PAT	10/17/2009	C/P	8.5
Conversion	Conversion	Consolidation	Equity	Standard	PAT	PAT	PAT	11/21/2009	C/P	9.5
Conversion	Conversion	Consolidation	Equity	Standard	PAT	PAT	PAT	12/19/2009	C/P	10.5
Conversion	Conversion	Consolidation	Equity	Standard	PAT	PAT	PAT	1/16/2010	C/P	11.5
Conversion	Consolidation	Consolidation	Equity	Quarterly	PAPE	PAM	PAPE	3/31/2010	C/P	65
N/A	N/A	Consolidation	Equity	Wrap	PAPE	N/A	PAPE	2/20/2010	C/P	165
N/A	N/A	Consolidation	Equity	LEAP	PAPE	N/A	PAPE	03/19/2011	C/P	65
Conversion	Consolidation	Consolidation	Equity	Standard	PAPE	PAH	PAPE	2/20/2010	C/P	47.5
Conversion	Consolidation	Consolidation	Equity	Standard	PAPE	PAI	PAPE	2/20/2010	C/P	147.5
Conversion	Consolidation	Consolidation	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	3/20/2010	C/P	72.875
Conversion	Conversion	Consolidation	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	10/17/2009	C/P	73.875
Conversion	Consolidation	Consolidation	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	11/21/2009	C/P	74.875
Conversion	Conversion	Consolidation	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	12/19/2009	C/P	75.875
Conversion	Consolidation	Consolidation	EqyNonSt	Corp Act.	PAPER	PAN	PAPX1	1/16/2010	C/P	76.875

Test Classes										
Oct.	Nov. / Dec. /Jan.	Jan. 2010	Class	Subclass	Underlying	Opt Sym pre- consolidation	Opt Sym post- consolidation	Expiration	Call/Put	Strike
Conversion	Conversion	Consolidation	Index	FLEX	INK	2INK09	2INK	3/9/2011	C/P	317
Conversion	Conversion	Consolidation	Index	Standard	INK	INK	INK	2/20/2010	C/P	325
Conversion	Conversion	Consolidation	Index	Standard	INK	INK	INK	10/17/2009	C/P	326
Conversion	Conversion	Consolidation	Index	Standard	INK	INK	INK	11/21/2009	C/P	327
Conversion	Conversion	Consolidation	Index	Standard	INK	INK	INK	12/19/2009	C/P	328
Conversion	Conversion	Consolidation	Index	Standard	INK	INK	INK	1/16/2010	C/P	329
Conversion	Conversion	Consolidation	Index	Weekly	INK	INJ	INK	2/12/2010	C/P	275
Conversion	Conversion	Consolidation	Index	Standard	INK	INC	INK	1/16/2010	C/P	300
Conversion	Conversion	Consolidation	Index	Standard	INK	INF	INK	1/16/2010	C/P	600
Conversion	Conversion	Consolidation	Index	Standard	INK	INC	INK	02/20/2010	C/P	300
Conversion	Conversion	Consolidation	Index	Standard	INK	INF	INK	02/20/2010	C/P	600

For additional information regarding test scenarios to be executed please refer to the OSI Test Scripts.

Please Note: NASDAQ and NASDAQ OMX PHLX will not be supporting the test classes during any of the scheduled Scripted Industry Tests.

5.5 Corporate Action and Accelerated Expirations Test Scenarios

For each of the scripted industry tests, with the exception of the January 30, 2010 test, OCC will perform a 3 For 2 Stock Split, a 2 For 1 Stock Split and an accelerated expiration. The stock splits will be executed on non-consolidated classes and the accelerated expiration will accelerate the expiration to the test month. Corporate Actions and Accelerated expiration will be executed on the scheduled Saturday test dates as well as the scheduled Monday replay dates. Details surrounding each of these events are identified in the tables below.

5.5.1 3 For 2 Corporate Action

October Corporate Action: Non-Consolidated Class	
Corporate Action Type	3: 2 Split Johnson & Johnson
Number Of Contracts	Unchanged
Multiplier	150 (e.g. For premium or strike dollar extensions 1.00 will equal \$150)
New Deliverable Per Ctrc:	150 Johnson & Johnson - Common Shares
Cusip	478160104
Strikes:	Decrease by a factor of 1.5
Current Option Symbols	Post Option Symbols
JNJ	JNZ
VJN	JVX
WJN	WJG
2JNJ02	2JNZ02
2JNJ16	2JNZ16

November / December / January Corporate Action: Non-Consolidated Class; Consolidated Flex	
Corporate Action Type	3: 2 Split Johnson & Johnson
Number Of Contracts	Unchanged
Multiplier	150 (e.g. For premium or strike dollar extensions 1.00 will equal \$150)
New Deliverable Per Ctrc:	150 Johnson & Johnson - Common Shares
Cusip	478160104
Strikes:	Decrease by a factor of 1.5
Current Option Symbols	Post Option Symbols
JNJ	JNZ
VJN	JVX
WJN	WJK
2JNJ	2JNZ

5.5.2 2 For 1 Corporate Action

October Corporate Action: Non-Consolidated Class	
Corporate Action Type	2 For 1 Harman International Industries
Number Of Contracts	Doubled
Multiplier	100 (e.g.. For premium or strike dollar extensions 1.00 will equal \$100)
New Deliverable Per Ctrc:	Unchanged
Cusip	413086109
Strikes:	Decrease by a factor of 2.0
Current Option Symbols	Post Option Symbols
HAR	Unchanged
HUZ	Unchanged
2HAR25	Unchanged

November / December / January Corporate Action: Non-Consolidated Class; Consolidated Flex	
Corporate Action Type	2 For 1 Harman International Industries
Number Of Contracts	Doubled
Multiplier	100 (e.g.. For premium or strike dollar extensions 1.00 will equal \$100)
New Deliverable Per Ctrc:	Unchanged
Cusip	413086109
Strikes:	Decrease by a factor of 2.0
Current Option Symbols	Post Option Symbols
HAR	Unchanged
HUZ	Unchanged
2HAR	Unchanged

5.5.3 Accelerated Expiration

Accelerated Expiration: Non-Consolidated Class	
Name	Current Symbols
Sequenom, Inc. (SQNM)	QJQ, QPJ, XUW

6 Scripted Industry Test Schedules

6.1 OSI Beta Test – September 12, 2009

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange/OPRA Activity	Clearing Member Activities
Sat, 09/12	Sat, 09/12	7:00a – 9:00a	Environment Start Up	Environment Start Up
		9:00a	OPRA Open Interest Transmission	OPRA Startup
		9:00a – 2:00p	Mock Trading Cycle	Exchange Order Entry
		9:00a – 3:00p	- External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - Series Add test symbols	Submit Post Trades ² (ENCORE)
		3:00p – 11:00p	OCC Positions Finalization	N/A
		3:00/4:00p	N/A	Review/Process Exchange reports
Sun, 09/13	9:00a	Review/Process OCC batch DDS and reports for 09/12 Reconcile activity and positions		
Mon, 09/14	Mon, 09/14	9:00a	- Open interest restored to starting point - OCC replay of trades from Sat, 09/12 with adjusted trade date ³ - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - Series Add test symbols	Submit Post Trades (ENCORE)
		9:00a – 3:00p	External ENCORE Window Open	N/A
		3:00p – 11:00p	OCC Positions Finalization	
Tues, 09/15		9:00a	N/A	Review/Process OCC batch DDS and reports for 09/14 Reconcile activity and positions

! All times provided are approximate. Please monitor the testing blog for updated testing status: <http://osi-testing.blogspot.com>

6.1.1 Inventory Starting Point

Production inventory as of market open Tuesday, September 8, 2009. All active products, series and open interest from that date will be included.

6.1.2 Participation

- Exchange: Limited to the scheduled Saturday – All exchange order execution must be done during the scheduled Saturday test times.
- OCC: Multiple dates please see chart above.

² OCC will accept all pending response transactions at the end of the day.

³ Please note that Clearing Members will need to participate on Saturday with the exchanges in order to have trades available for OCC replay.

- OPRA: Limited to the scheduled Saturday test and requires exchange participation

It is assumed that Clearing Members will be participating with the OCC and their back-office processing on one or both of the below dates:

- On Saturday, 09/12, with Trade/Activity Date Saturday, 09/12
- Monday, 9/14 with a Trade/Activity Date Monday 9/14

Participation on the additional dates outlined is at the discretion of the testing partner.

6.2 OSI Phase 1 Conversion Test – October 10, 2009

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
Wed, 10/7	Tue, 10/6	6:00p	Non-prop DDS for test classes/series	Prep test environments with test classes/series as needed
Sat, 10/10	Sat, 10/10	7:00a – 9:00a	Environment Start Up	Environment Start Up
		8:45a	SIAC Open Interest Distribution	Process Open Interest as needed
		9:00a – 2:00p	Mock Trading Cycle - Exchange Post Trades - Exchange/Member reconciliation	- Exchange Order Entry - Exchange Post Trades
		9:00a – 3:00p	External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson	Submit Post Trades ⁴ (ENCORE)
		2:00p – 3:00p	Exchange/OCC Trade Balancing	N/A
		2:00p – 4:00p	N/A	Review/Process Exchange reports
		3:00p – 9:00p	OCC Positions Finalization	N/A
Sun, 10/11		Approx 9:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 10/10. Reconcile activity and positions.
		9:00a – 12:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
		N/A	N/A	
Mon, 10/12 Tues, 10/13	Mon, 10/12	9:00a	- Open interest restored to starting point - OCC replay of trades from Sat, 10/10 with adjusted trade date ⁵	Submit Post Trades (ENCORE)
		9:00a – 3:00p	External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson	
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 10/12. Reconcile activity and positions.
Wed, 10/14		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
Thur, 10/15	Expiration Friday, 10/16	9:00a – 3:00p	Open interest rolled from 10/12 activity date External ENCORE Window Open	Submit Post Trades including EEDs/DNEDs (ENCORE)
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 10/16. Reconcile activity and positions.
Fri, 10/16 Sat, 10/17		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
Mon, 10/19	Expiration Saturday, 10/17	9:00a – 5:00p	External ENCORE Window Open	Submit Post Trades including Ex by Ex and Authorization of Accounts (ENCORE)
Tues, 10/20		9:00a – 3:00p		
		3:00p – 11:00p	OCC Positions Finalization	N/A

⁴ OCC will accept all pending response transactions at the end of the day.

⁵ Please note that Clearing Members will need to participate on Saturday with the exchanges in order to have trades available for OCC replay.

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 10/17. Reconcile activity and positions.
Wed, 10/21		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary

! All times provided are approximate. Please monitor the testing blog for updated testing status: <http://osi-testing.blogspot.com>.

! DDS publishing times have been updated based on the September Beta SIT. If not able to be published by the approximated times all DDS will be available by 9:00a the following calendar date.

! Any pended trades will be rejected prior to OCC kicking off the Positions Finalization Process.

6.2.1 Inventory Starting Point

Production inventory as of market open Monday, October 5, 2009. All active products, series and open interest from that date will be included.

OCC will be adding in the test classes and series as part of their environment setup. OCC will make the corresponding non-proprietary DDS from the addition of these updates available on Thursday, October 8, 2009 with a trade/activity date of Wednesday 10/7/2009.

6.2.2 Participation

- Exchange: Limited to the scheduled Saturday – All exchange order execution must be done during the scheduled Saturday test times.
- OCC: Multiple dates please see chart above.
- OPRA: Limited to the scheduled Saturday test and requires exchange participation

It is assumed that Clearing Members will be participating with the OCC and their back-office processing on one or both of the below dates:

- On Saturday, 10/10, with Trade/Activity Date Saturday, 10/10
- Monday, 10/12 with a Trade/Activity Date Monday 10/12

Participation on the additional dates outlined is at the discretion of the testing partner.

6.2.3 Settlement Dates

- T+1 Settlement date for trade dates 10/10/2009 will be 10/12/2009.
- T+1 Settlement date for trade dates of 10/12/2009 will be 10/16/2009.

6.3 OSI Phase II Consolidation Test – November 14, 2009

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
Thur, 11/05	11/02/2009	6:00 p	<ul style="list-style-type: none"> - Provide batch DDS for Security Definition, Security List, Security Update, Positions, Open Interest, Prices and Adjusted Positions resulting from environment setup which includes: <ol style="list-style-type: none"> 1. Flex Consolidation 2. ½ Point Strike Consolidation 3. Addition of test classes 4. Addition of test series 	<ul style="list-style-type: none"> - Use data to prep environments as necessary
Fri, 11/06	11/03/2009	6:00 p	<ul style="list-style-type: none"> - Provide Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest, Prices and Adjusted Positions resulting from consolidations. - Provide Consolidation Spreadsheet 	<ul style="list-style-type: none"> - Use data to prep environments as necessary
Sat, 11/14	Sat, 11/14	7:00a – 9:00a	Environment Start Up	Environment Start Up
		8:45a	SIAC Open Interest Distribution	Process Open Interest as needed
		9:00a – 2:00	Mock Trading Cycle <ul style="list-style-type: none"> - Exchange Post Trades - Exchange/Member reconciliation 	<ul style="list-style-type: none"> - Exchange Order Entry - Exchange post trades
		9:00a – 3:00p	<ul style="list-style-type: none"> - External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - 2 For 1 Stock Split Harmen International Industries 	Submit Post Trades ⁶ (ENCORE)
		2:00p – 3:00p	<ul style="list-style-type: none"> - Exchange/OCC Trade Balance - Exchange/Member Reconciliation 	<ul style="list-style-type: none"> - Exchanges balance trades with OCC - Members reconcile differences with the exchanges.
		3:00p – 9:00p	OCC Positions Finalization	N/A
		Approx 9:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 11/14. Reconcile activity and positions.
Sun, 11/15		9:00a – 12:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
Mon, 11/16	Mon, 11/16	9:00a	<ul style="list-style-type: none"> - Open interest restored to starting point - OCC replay of trades from Sat, 11/14 with adjusted trade date⁷ 	Submit Post Trades (ENCORE)
		9:00a – 3:00p	<ul style="list-style-type: none"> - External ENCORE Window Open - Accelerated Expiration for 	

⁶ OCC will accept all pending response transactions at the end of the day.

⁷ Please note that Clearing Members will need to participate on Saturday with the exchanges in order to have trades available for OCC replay.

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
			Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - 2 For 1 Stock Split Harmen International	
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 11/16. Reconcile activity and positions
Tues, 11/17		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary.
		9:00a – 3:00p	Open interest rolled from 11/16 activity date External ENCORE Window Open	Submit Post Trades including EEDs/DNEDs (ENCORE)
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 11/20. Reconcile activity and positions
Thur, 11/19 Fri, 11/20 Sat, 11/21	Expiration Friday, 11/20	9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
Mon, 11/23		9:00a – 5:00p		Submit Post Trades including Ex by Ex and Authorization of Accounts (ENCORE)
		9:00a – 3:00p	External ENCORE Window Open	
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 11/21. Reconcile activity and positions
Tues, 11/24	Expiration Saturday, 11/21	9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
Wed, 11/25		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary

! All times provided are approximate. Please monitor the testing blog for updated testing status: <http://osi-testing.blogspot.com>

! DDS publishing times have been updated based on the September Beta SIT. If not able to be published by the approximated times all DDS will be available by 9:00a the following calendar date.

! Any pended trades will be rejected prior to OCC kicking off the Positions Finalization Process.

6.3.1 Inventory Starting Point

Production inventory as of market open Monday, November 2, 2009. All active products, series and open interest from that date will be included.

As part of the environment setup, the OCC will execute activities mirroring the OSI rollout in production prior to Class Consolidations. Activities and associated Batch DDS will be broken out as follows.

Biz Date: 11/02/2009

OCC will convert all equity options to decimal format and execute the Half-Point Strike and Flex consolidations on all products. OCC will also add in the test classes and series.

Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest and Adjusted Positions transmissions will be produced. Files will be available by EOD Thursday, 11/05/09.

Biz Date: 11/03/2009

OCC will consolidate selected classes as documented in the OSI Test scripts.

Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest and Adjusted Positions transmissions will be produced. Files will be available by EOD Friday, 11/06/09.

6.3.2 Participation

- Exchange: Limited to the scheduled Saturday – All exchange order execution must be done during the scheduled Saturday test times.
- OCC: Multiple dates please see chart above.
- OPRA: Limited to the scheduled Saturday test and requires exchange participation

It is assumed that Clearing Members will be participating with the OCC and their back-office processing on one or both of the below dates:

- On Saturday, 11/14, with Trade/Activity Date Saturday, 11/14
- Monday, 11/16 with a Trade/Activity Date Monday 11/16

Participation on the additional dates outlined is at the discretion of the testing partner.

6.3.3 Settlement Dates

- T+1 Settlement date for trade dates 11/14/2009 will be 11/16/2009.
- T+1 Settlement date for trade date 11/16/2009 will be 11/20/2009.

6.3.4 Replay Trade / Business Dates

There are two dates that are passed from inbound trades from the exchanges to outbound Trades DDS.

- BizDt (tag #715). This tag contains the clearing business date for the trade. For valid trades, this value matches the Activity Date in the Encore system.
- TrdDt (tag #75). This tag contains the As of Date which is an optional field on trades to the OCC. This value can match the Activity Date in the Encore system or may contain a prior date. If left blank on inbound trades the OCC will populate this tag with the current Activity Date in the Encore system (which will match the BizDt).

For the Monday replay, the OCC will replace the Business and As of Dates set to Saturday, 11/14/2009, with Monday, 11/16/2009. Business or As of Dates received on Saturday that do not equal 11/14/2009 will not be adjusted. For example, an As of Date of Friday, 11/13/2009, would remain constant across Saturday and Monday testing.

Saturday Test		Monday Replay	
Inbound Trade from Exchange to OCC		Outbound Trade DDS	Outbound Trade DDS
Activity Date	11/14/2009	BizDt = "2009-11-14"	BizDt = "2009-11-16"
As of Date	11/14/2009	TrdDt = "2009-11-14"	TrdDt = "2009-11-16"
	<blank>	TrdDt = "2009-11-14"	TrdDt = "2009-11-16"
	11/13/2009	TrdDt = "2009-11-13"	TrdDt = "2009-11-13"

Please note the above table only addresses trades with valid activity dates; trades received on Saturday with activity dates other than 11/14/2009 will be rejected and the DDS will reflect the non-Saturday activity date.

6.4 OSI Phase II Consolidation Test – December 12, 2009

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
Thur, 12/3	11/30/2009	6:00 p	<ul style="list-style-type: none"> - Provide batch DDS for Security Definition, Security List, Security Update, Positions, Open Interest, Prices and Adjusted Positions resulting from environment setup which includes: <ol style="list-style-type: none"> 5. Flex Consolidation 6. ½ Point Strike Consolidation 7. Addition of test classes 8. Addition of test series 	<ul style="list-style-type: none"> - Use data to prep environments as necessary
Fri, 12/4	12/01/2009	6:00 p	<ul style="list-style-type: none"> - Provide Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest, Prices and Adjusted Positions resulting from consolidations. - Provide Consolidation Spreadsheet 	<ul style="list-style-type: none"> - Use data to prep environments as necessary
Sat, 12/12	Sat, 12/12	7:00a – 9:00a	Environment Start Up	Environment Start Up
		8:45a	SIAC Open Interest Distribution	Process Open Interest as needed
		9:00a – 2:00p	Mock Trading Cycle - Exchange Post Trades - Exchange/Member reconciliation	<ul style="list-style-type: none"> - Exchange Order Entry - Exchange post trades
		1:30 p	- ISE Cert Environment shutdown	
		9:00a – 3:00p	- External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - 2 For 1 Stock Split Harmen International Industries	Submit Post Trades ⁸ (ENCORE)
		2:00p – 3:00p	- Exchange/OCC Trade Balance - Exchange/Member Reconciliation	<ul style="list-style-type: none"> - Exchanges balance trades with OCC - Members reconcile differences with the exchanges.
		3:00p – 9:00p	OCC Positions Finalization	N/A
		Approx 9:00 p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 12/12. Reconcile activity and positions.
Sun, 12/13		9:00a – 12:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary

⁸ OCC will accept all pending response transactions at the end of the day.

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities	
Mon, 12/14	Mon, 12/14	9:00a	- Open interest restored to starting point - OCC replay of trades from Sat, 12/12 with adjusted trade date ⁹	Submit Post Trades (ENCORE)	
		9:00a – 3:00p	- External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - 2 For 1 Stock Split Harmen International Industries		
		3:00p – 11:00p	OCC Positions Finalization		N/A
		Approx 11:00p	Publish Outbound DDS		Review/Process OCC batch DDS and reports for 12/14. Reconcile activity and positions
Tues, 12/15		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary	
Wed, 12/16	Expiration Friday, 12/18	9:00a – 3:00p	- Open interest rolled from 12/14 activity date - External ENCORE Window Open	Submit Post Trades including EEDs/DNEDs (ENCORE)	
		3:00p – 11:00p	OCC Positions Finalization	N/A	
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 12/18 Reconcile activity and positions	
Thur, 12/17	Expiration Saturday, 12/19	9:00a – 5:00p	External ENCORE Window Open for data entry and viewing of reports and listviews	- Continue back office processing as necessary - Submit Post Trades including Ex by Ex and Authorization of Accounts (Encore)	
Fri, 12/18		9:00a – 12:00p			
		3:00p – 11:00p	OCC Positions Finalization	N/A	
		Approx 11:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 12/19. Reconcile activity and positions	

! All times provided are approximate. Please monitor the testing blog for updated testing status: <http://osi-testing.blogspot.com>

! DDS publishing times have been updated based on the November SIT. If not able to be published by the approximated times all DDS will be available by 9:00a the following calendar date.

! Any pended trades will be rejected prior to OCC kicking off the Positions Finalization Process.

⁹ Please note that Clearing Members will need to participate on Saturday with the exchanges in order to have trades available for OCC replay.

6.4.1 Inventory Starting Point

Production inventory as of market open **Monday, November 30, 2009**. All active products, series and open interest from that date will be included.

As part of the environment setup, the OCC will execute activities mirroring the OSI rollout in production prior to Class Consolidations. Activities and associated Batch DDS will be broken out as follows.

Biz Date: 11/30/2009

OCC will convert all equity options to decimal format and execute the Half-Point Strike and Flex consolidations on all products. OCC will also add in the test classes and series.

Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest and Adjusted Positions transmissions will be produced. Files will be available by EOD Thursday, 12/03/09.

Biz Date: 12/01/2009

OCC will consolidate selected classes as documented in the OSI Test scripts.

Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest and Adjusted Positions transmissions will be produced. Files will be available by EOD Friday, 12/04/09.

6.4.2 Participation

- Exchange: Limited to the scheduled Saturday – All exchange order execution must be done during the scheduled Saturday test times.
- OCC: Multiple dates please see chart above.
- OPRA: Limited to the scheduled Saturday test and requires exchange participation

It is assumed that Clearing Members will be participating with the OCC and their back-office processing on one or both of the below dates:

- On Saturday, 12/12, with Trade/Activity Date Saturday, 12/12
- Monday, 12/14 with a Trade/Activity Date Monday 12/14

Participation on the additional dates outlined is at the discretion of the testing partner.

6.4.3 Settlement Dates

- T+1 Settlement date for trade dates 12/12/2009 will be 12/14/2009.
- T+1 Settlement date for trade date 12/14/2009 will be 12/18/2009

6.4.4 Replay Trade / Business Dates

There are two dates that are passed from inbound trades from the exchanges to outbound Trades DDS.

- BizDt (tag #715). This tag contains the clearing business date for the trade. For valid trades, this value matches the Activity Date in the Encore system.
- TrdDt (tag #75). This tag contains the As of Date which is an optional field on trades to the OCC. This value can match the Activity Date in the Encore system or may contain a prior date. If left blank on inbound trades the OCC will populate this tag with the current Activity Date in the Encore system (which will match the BizDt).

For the Monday replay, the OCC will replace the Business and As of Dates set to Saturday, 12/12/2009, with Monday, 12/14/2009. Business or As of Dates received on Saturday that do not equal 12/12/2009 will not be adjusted. For example, an As of Date of Friday, 12/11/2009, would remain constant across Saturday and Monday testing.

Saturday Test		Monday Replay	
Inbound Trade from Exchange to OCC		Outbound Trade DDS	Outbound Trade DDS
Activity Date	12/12//2009	BizDt = "2009-12-12"	BizDt = "2009-12-14"
As of Date	12/12/2009	TrdDt = "2009-12-12"	TrdDt = "2009-12-14"
	<blank>	TrdDt = "2009-12-12"	TrdDt = "2009-12-14"
	12/11/2009	TrdDt = "2009-12-11"	TrdDt = "2009-12-11"

Please note the above table only addresses trades with valid activity dates; trades received on Saturday with activity dates other than 12/12/2009 will be rejected and the DDS will reflect the non-Saturday activity date.

6.5 OSI Phase II Consolidation Test – January 9, 2010

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
Wed, 12/30	12/22	6:00p	Provide batch DDS for Security Definition, Security List, Security Update, Positions, Open Interest , Prices and Adjusted Positions resulting from environment setup which includes: 1. Flex Consolidation 2. ½ Point Strike Consolidation 3. Addition of test classes 4. Addition of test series	Use data to prep environments as necessary
Thur, 12/31 – Fri, 01/08	12/23	12:00p	Provide Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest, Prices and Adjusted Positions resulting from consolidations. Provide Consolidation Spreadsheet	Use data to prep environments as necessary
Sat, 01/09	Sat, 01/09	7:00a – 9:00a	Environment Start Up	Environment Start Up
		8:45a	SIAC Open Interest Distribution	Process Open Interest as needed
		9:00a – 2:00p	Mock Trading Cycle - Exchange Post Trades - Exchange/Member reconciliation	Exchange Order Entry Exchange Post Trades
		9:00a – 3:00p	- External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - 2 For 1 Stock Split Harmen International Industries	Submit Post Trades ¹⁰ (ENCORE)
		2:00p – 3:00p	- Exchange/OCC Trade Balance - Exchange/Member Reconciliation	- Exchanges balance trades with OCC - Members reconcile differences with the exchanges.
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 9:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 01/09. Reconcile activity and positions.
Sun, 01/10		9:00a – 12:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary

¹⁰ OCC will accept all pending response transactions at the end of the day.

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
Mon, 01/11	Mon, 01/11	9:00a	<ul style="list-style-type: none"> - Open interest restored to starting point - OCC replay of trades from Sat, 01/09 with adjusted trade date¹¹ 	Submit Post Trades (ENCORE)
		9:00a – 3:00p	<ul style="list-style-type: none"> - External ENCORE Window Open - Accelerated Expiration for Sequenom, Inc. (SQNM) - 3 For 2 Stock Split Johnson and Johnson - 2 For 1 Stock Split Harmen International Industries - Series Add test symbols 	
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 9:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 01/11. Reconcile activity and positions
		Tues, 01/12	9:00a – 5:00p	External ENCORE available for viewing reports / listviews
Wed, 01/13	Expiration Friday, 01/15	9:00a – 3:00p	<ul style="list-style-type: none"> - Open interest rolled from 12/14 activity date - External ENCORE Window Open 	Submit Post Trades including EEDs/DNEDs (ENCORE)
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 9:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 01/15 Reconcile activity and positions
Thur, 01/14 Fri, 01/15	Expiration Saturday, 01/16	9:00a – 5:00p	External ENCORE Window Open for data entry and viewing of reports and listviews	<ul style="list-style-type: none"> - Continue back office processing as necessary - Submit Post Trades including Ex by Ex and Authorization of Accounts (Encore)
9:00a – 12:00p				
Tues 01/19		12:00 p – 9:00p	OCC Positions Finalization	N/A
		Approx 9:00 p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 01/16. Reconcile activity and positions
Wed, 01/20	Tues 1/19	9:00a – 12:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary

! All times provided are approximate. Please monitor the testing blog for updated testing status: <http://osi-testing.blogspot.com>

! DDS publishing times have been updated based on the December SIT. If not able to be published by the approximated times all DDS will be available by 9:00a the following calendar date.

! Any pended trades will be rejected prior to OCC kicking off the Positions Finalization Process.

¹¹ Please note that Clearing Members will need to participate on Saturday with the exchanges in order to have trades available for OCC replay.

6.5.1 Inventory Starting Point

Production inventory as of market open Tuesday, December 22, 2009. All active products, series and open interest from that date will be included.

As part of the environment setup, the OCC will execute activities mirroring the OSI rollout in production prior to Class Consolidations. Activities and associated Batch DDS will be broken out as follows.

Biz Date: 12/22/2009

OCC will convert all equity options to decimal format and execute the Half-Point Strike and Flex consolidations on all products. OCC will also add in the test classes and series.

Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest and Adjusted Positions transmissions will be produced. Files will be available by EOD Wednesday 12/30/2009.

Biz Date: 12/23/2009

OCC will consolidate selected classes as documented in the OSI Test scripts.

Batch DDS for Security Definition, Security Update, Security List, Positions, Open Interest and Adjusted Positions transmissions will be produced. Files will be available by Noon, Thursday, 12/31/2009.

6.5.2 Participation

- Exchange: Limited to the scheduled Saturday – All exchange order execution must be done during the scheduled Saturday test times.
- OCC: Multiple dates please see chart above.
- OPRA: Limited to the scheduled Saturday test and requires exchange participation

It is assumed that Clearing Members will be participating with the OCC and their back-office processing on one or both of the below dates:

- On Saturday, 01/09/2010, with Biz/Activity Date Saturday, 01/09/2010
- Monday, 01/11/2010 with a Biz/Activity Date Monday 01/11/2010.

Participation on the additional dates outlined is at the discretion of the testing partner.

6.5.3 Settlement Dates

- T+1 Settlement date for trade dates 01/09/2010 will be 01/11/2010
- T+1 Settlement date for trade dates of 01/11/2010 will be 01/15/2010.

6.5.4 Replay Trade / Business Dates

There are two dates that are passed from inbound trades from the exchanges to outbound Trades DDS.

- BizDt (tag #715). This tag contains the clearing business date for the trade. For valid trades, this value matches the Activity Date in the Encore system.
- TrdDt (tag #75). This tag contains the As of Date which is an optional field on trades to the OCC. This value can match the Activity Date in the Encore system or may contain a prior date. If left blank on inbound trades the OCC will populate this tag with the current Activity Date in the Encore system (which will match the BizDt).

For the Monday replay, the OCC will replace the Business and As of Dates set to Saturday, 01/09/2010, with Monday, 01/11/2010. Business or As of Dates received on Saturday that do not equal 01/09/2010 will not be adjusted. For example, an As of Date of Friday, 01/08/2010, would remain constant across Saturday and Monday testing.

Saturday Test		Monday Replay	
Inbound Trade from Exchange to OCC		Outbound Trade DDS	Outbound Trade DDS
Activity Date	01/09/2010	BizDt = "2010-01-09"	BizDt = "2010-01-11"
As of Date	01/09/2010	TrdDt = "2010-01-09"	TrdDt = "2010-01-11"
	<blank>	TrdDt = "2010-01-09"	TrdDt = "2010-01-11"
	01/08/2010	TrdDt = "2010-01-08"	TrdDt = "2010-01-08"

Please note the above table only addresses trades with valid activity dates; trades received on Saturday with activity dates other than 01/09/2010 will be rejected and the DDS will reflect the non-Saturday activity date.

6.6 OSI Phase II Consolidation Test – January 30, 2010

Calendar Date	Trade Date / Activity Date	Timeframe [ET]	OCC/Exchange Activity	Clearing Member Activities
Thur, 01/21	01/19	9:00a – 9:00p	- Positions will roll from Expiration Saturday with no trade/post trade activity - SPX Class Consolidation - OCC positions finalization	N/A
Fri 01/22 – Fri, 01/29		Approx 5:00p	Publish outbound DDS	Use data to prep environments as necessary
Sat, 01/30	Sat, 01/30	7:00a – 9:00a	Environment Start Up	
		8:45a	SIAC Open Interest Distribution	Process Open Interest as needed
		9:00a – 2:00	Mock Trading Cycle - Exchange Post Trades - Exchange/Member reconciliation	- Exchange Order Entry - Exchange post trades
		9:00a – 3:00p	- External ENCORE Window Open	Submit Post Trades ¹² (ENCORE)
		2:00p – 3:00p	- Exchange/OCC Trade Balance - Exchange/Member Reconciliation	- Exchanges balance trades with OCC - Members reconcile differences with the exchanges.
		3:00p – 11:00p	OCC Positions Finalization	N/A
		Approx 9:00p	Publish Outbound DDS	Review/Process OCC Batch DDS and Reports for 01/30. Reconcile activity and positions.
Sun, 01/31		9:00a – 12:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary
Mon, 02/01	Mon, 02/01	9:00a	- Open interest restored to starting point - OCC replay of trades from Sat, 01/30 with adjusted trade date ¹³	Submit Post Trades (ENCORE)
		9:00a – 3:00p	- External ENCORE Window Open	
		3:00p – 9:00p	OCC Positions Finalization	N/A
		Approx 9:00p	Publish Outbound DDS	Review/Process OCC batch DDS and reports for 02/01. Reconcile activity and positions
Tues 02/02		9:00a – 5:00p	External ENCORE available for viewing reports / listviews	Continue back office processing as necessary

! All times provided are approximate. Please monitor the testing blog for updated testing status: <http://osi-testing.blogspot.com>

! DDS publishing times have been updated based on the December SIT. If not able to be published by the approximated times all DDS will be available by 9:00a the following calendar date.

! Any pended trades will be rejected prior to OCC kicking off the Positions Finalization Process.

¹² OCC will accept all pending response transactions at the end of the day.

¹³ Please note that Clearing Members will need to participate on Saturday with the exchanges in order to have trades available for OCC replay.

6.6.1 Inventory Starting Point

Starting inventory for the 1/30/2009 test will be rolled out of the Expiration cycle simulated during the 1/9/2010 test. OCC will provide DDS reflecting the post Expiration cycle to be use to load test environments in advance of the 1/30/2010 test. This DDS will also include there results of consolidating the SPX class

Biz Date: 01/19/2009

6.6.2 Participation

- Exchange: Limited to the scheduled Saturday – All exchange order execution must be done during the scheduled Saturday test times.
- OCC: Multiple dates please see chart above.
- OPRA: Limited to the scheduled Saturday test and requires exchange participation

It is assumed that Clearing Members will be participating with the OCC and their back-office processing on one or both of the below dates:

- On Saturday, 01/30/2010, with Biz/Activity Date Saturday, 01/30/2010
- Monday, 02/01/2010 with a Biz/Activity Date Monday 02/01/2010.

Participation on the additional dates outlined is at the discretion of the testing partner.

6.6.3 Settlement Dates

- T+1 Settlement date for trade dates 01/30/2010 will be 02/01/2010
- T+1 Settlement date for trade dates of 02/01/2010 will be 02/02/2010.

6.6.4 Replay Trade / Business Dates

There are two dates that are passed from inbound trades from the exchanges to outbound Trades DDS.

- BizDt (tag #715). This tag contains the clearing business date for the trade. For valid trades, this value matches the Activity Date in the Encore system.
- TrdDt (tag #75). This tag contains the As of Date which is an optional field on trades to the OCC. This value can match the Activity Date in the Encore system or may contain a prior date. If left blank on inbound trades the OCC will populate this tag with the current Activity Date in the Encore system (which will match the BizDt).

For the Monday replay, the OCC will replace the Business and As of Dates set to Saturday, 01/30/2010, with Monday, 02/01/2010. Business or As of Dates received on Saturday that do not equal 01/30/2010 will not be adjusted. For example, an As of Date of Friday, 01/29/2010, would remain constant across Saturday and Monday testing.

Saturday Test		Monday Replay	
Inbound Trade from Exchange to OCC		Outbound Trade DDS	Outbound Trade DDS
Activity Date	01/30/2010	BizDt = "2010-01-30"	BizDt = "2010-02-01"
As of Date	01/30/2010	TrdDt = "2010-01-30"	TrdDt = "2010-02-01"
	<blank>	TrdDt = "2010-01-30"	TrdDt = "2010-02-01"
	01/28/2010	TrdDt = "2010-01-28"	TrdDt = "2010-01-28"

Please note the above table only addresses trades with valid activity dates; trades received on Saturday with activity dates other than 01/30/2010 will be rejected and the DDS will reflect the non-Saturday activity date.

7 Appendix A

7.1 OSI Format Examples

OSI FORMAT EXAMPLES

Characteristics				Current Representation					Market Open As of 2/12/2010				Post Consolidation –Market Open Monday Following Consolidation			
Underly Symb	Underly Type	Series Type	Exp Type	Option Symbol	OPRA Code	Option Strike	P/C	Exp Date	Option Symbol	Option Strike	P/C	Exp Date	Option Symbol	Option Strike	P/C	Exp Date
DELL	Equity	Standard	Standard	DLQ	EE	25	C	05/2009	DLQ	25.000	C	5/16/2009	DELL	25.000	C	5/16/2009
DELL	Equity	Standard	Standard	DLQ	QE	25	P	05/2009	DLQ	25.000	P	5/16/2009	DELL	25.000	P	5/16/2009
DELL	Equity	Wrap	Standard	DLY	EH	4	C	05/2009	DLY	4.000	C	5/16/2009	DELL	4.000	C	5/16/2009
DELL	Equity	Wrap	Standard	DLY	QH	4	P	05/2009	DLY	4.000	P	5/16/2009	DELL	4.000	P	5/16/2009
DELL	Equity	Standard	LEAPS	VPZ	AZ	2 1/2	C	01/2011	VPZ	2.500	C	1/22/2011	DELL	2.500	C	1/22/2011
DELL	Equity	Standard	LEAPS	VPZ	MZ	2 1/2	P	01/2011	VPZ	2.500	P	1/22/2011	DELL	2.500	P	1/22/2011
DELL	Equity	Standard	FLEX	1DLQ01	LC	15	C	01/2001	1DLQ01	15.000	C	12/1/2011	1DELL	15.000	C	12/1/2011