



# **Market Replay Member Firm User's Guide Version 7.0**

## Disclaimer

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## Change Notices

The following change notices are provided to assist users of the CBOE<sup>®</sup>direct market replay system in determining the impact of changes to their processing.

If you have any questions or review comments about this document, please contact Odalys Castro at (312) 786-8817.

Date	Version	Description of Change
4/24/09	7.0	<ul style="list-style-type: none"><li>- Removed the capability to change passwords.</li><li>- RSA token value is required for login.</li><li>- New order filtering capabilities.</li></ul>
2/05/08	6.0	First version of the Member Firm user's guide.

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## Introduction


**Purpose** This user guide was written to assist Firm users in utilizing all of the features of the Market Replay system using a web browser.


**Intended Audience** This user guide is intended for CBOE Member Firms that are interested in Market Replay functions for CBOE<sup>®</sup>direct.

**Conventions Used in this Guide** The Market Replay system for CBOE<sup>®</sup>direct was designed so that you can perform all of your Market Replay activities by trading session. More than one Market Replay window can be active at the same time.

There are several conventions used throughout this guide to help trigger important information:

**Bolding** Used to highlight menu selections (e.g., **Login**) and button names (e.g., **Update**)

 **Note:** This notation is used to indicate important information you should note when performing the associated function.

 This graphic will appear in the margin when there is information relating to valid system codes and definitions.

**Valid Codes & Definitions**



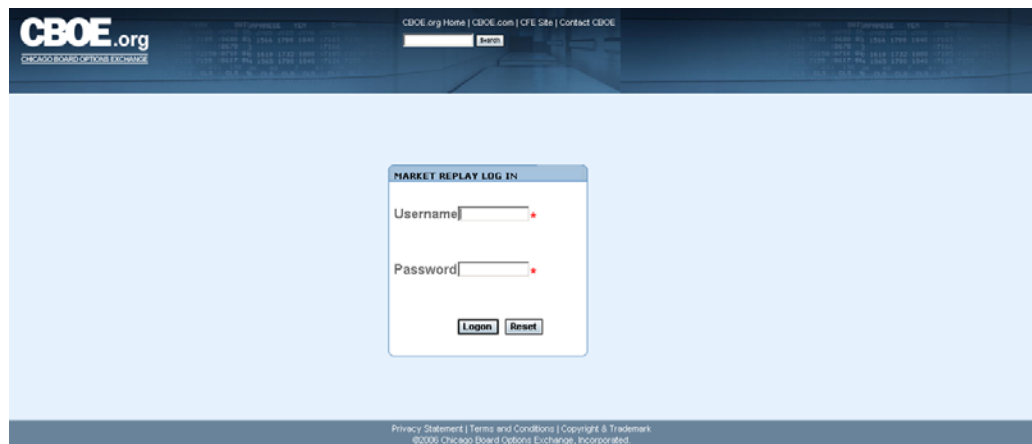
## **Section 1: Market Replay**

This section of the user guide will direct you through all the functions of CBOE's Market Replay system using a web browser.

## Getting Started

To launch the Market Replay application, enter the URL: <http://marketreplay.cboe.com/> on your web browser.

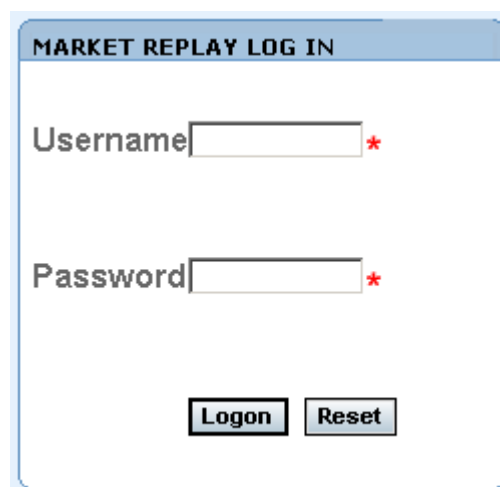
The following Login window will display.



**Login** In order to login to CBOE's Market Replay application, you will need to acquire, from CBOE, a valid user name, password and a RSA SecurID token value.

Enter your **Username**.

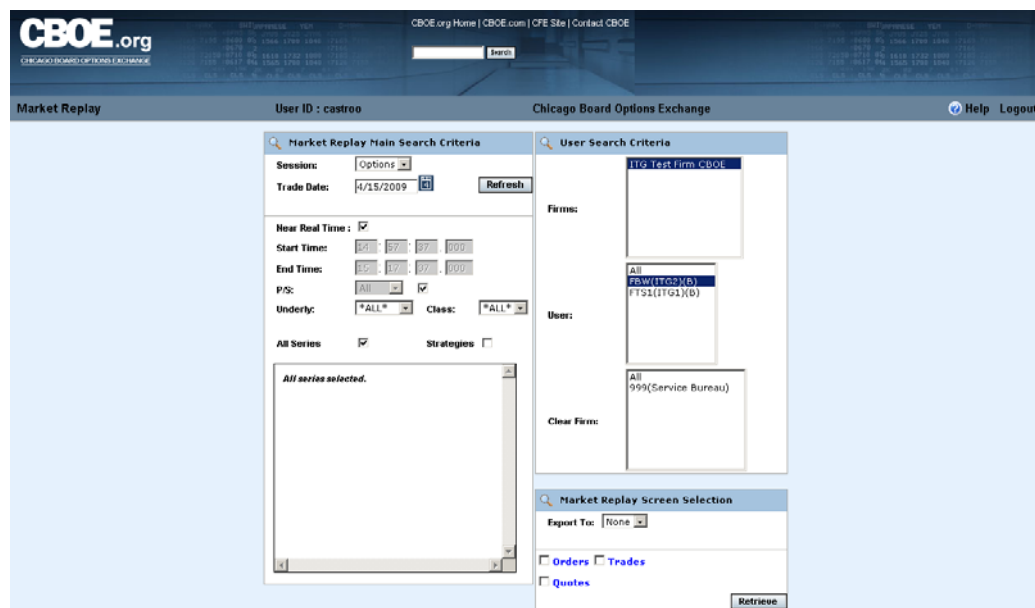
In the **Password** field, type in your password followed by your RSA token value. Do not enter a space between the password and token value.



If you incorrectly typed in your Username or Password, click **Reset**. The login window will clear. Re-enter your User name. Re-enter your Password followed by your RSA token value. Click **Logon**.

If you get a message indicating **Next Token Mode** when you login, please do the following:

- Open a browser and go to <http://rsa.cboe.com>
- Enter username and passcode when prompted: Enter the code displayed in the RSA SecurID window.
- You should receive a message that they are in next code mode.
- Be sure to wait for the RSA software application to flip to a new 8 digit tokencode, then enter that new tokencode.
- You should now get a message that they've been successfully authenticated.
- Please wait 90 seconds before attempting a login to Market Replay.
- After a successful login, Market Replay's main window will display.



From this window you can query CBOE *direct*'s real-time and historical trading information for your Firm.

You are now ready to use Market Replay's functionality.

## Display Trade Information

The Market Replay system allows you to retrieve your Firm's real-time and historical trading information for CBOE<sup>®</sup>direct. Historical information is maintained for three years.

Market Replay Main Search Criteria	User Search Criteria
<b>Session:</b> Options <b>Trade Date:</b> 4/15/2009 <b>Refresh</b>	<b>Firms:</b> ITG Test Firm CBOE
<b>Near Real Time:</b> <input checked="" type="checkbox"/> <b>Start Time:</b> 14 : 57 : 37 . 000 <b>End Time:</b> 15 : 17 : 37 . 000 <b>P/S:</b> All <input checked="" type="checkbox"/> <b>Underly:</b> *ALL* <b>Class:</b> *ALL*	<b>User:</b> All FBW(ITG2)(B) FTS1(ITG1)(B)
<b>All Series</b> <input checked="" type="checkbox"/> <b>Strategies</b> <input type="checkbox"/> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <i>All series selected.</i> </div>	<b>Clear Firm:</b> All 999(Service Bureau)
<b>Market Replay Screen Selection</b> <b>Export To:</b> None	
<input type="checkbox"/> Orders <input type="checkbox"/> Trades <input type="checkbox"/> Quotes	
<b>Retrieve</b>	

Trading information is available based on the security access setup for your Firm.



**Selection Parameters**

The Market Replay window allows you to specify the type of trading data you wish to view by session. The window defaults to the Options session and the current business day.

To easily understand the data represented in Market Replay, the window displays are presented as single data types (i.e. Trades) rather than combination displays (i.e. Trades & Orders).

The screenshot displays the Market Replay window interface, which is divided into three main sections:

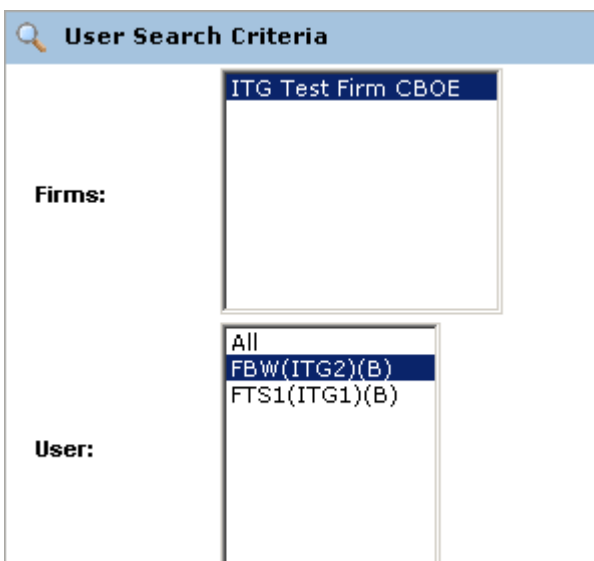
- Market Replay Main Search Criteria:** This panel includes fields for Session (Options), Trade Date (4/15/2009), and a Refresh button. It also features checkboxes for Near Real Time, Start Time (14:57:37.000), End Time (15:17:37.000), P/S (All), Underly (All), and Class (All). There are checkboxes for All Series and Strategies, and a list box showing "All series selected."
- User Search Criteria:** This panel includes a list box for Firms (ITG Test Firm, CBOE), a list box for Users (All, FBW(ITG2)(B), FTS1(ITG1)(B)), and a list box for Clear Firm (All, 999(Service Bureau)).
- Market Replay Screen Selection:** This panel includes an Export To dropdown (None) and checkboxes for Orders, Trades, and Quotes. Each checkbox has associated dropdown menus for various filters like Query By, B/S, Order Type, Auction Type, Contingency, TIF, Order Status, Origin Type Code, and Quote Event Type. A Retrieve button is located at the bottom right.

The Market Replay window is split into three panels: Market Replay Main Search Criteria, User Search Criteria and Market Replay Screen Selections. This window is used to set limitations for your data request.

The Market Replay Main Search Criteria section of the window allows you to select:

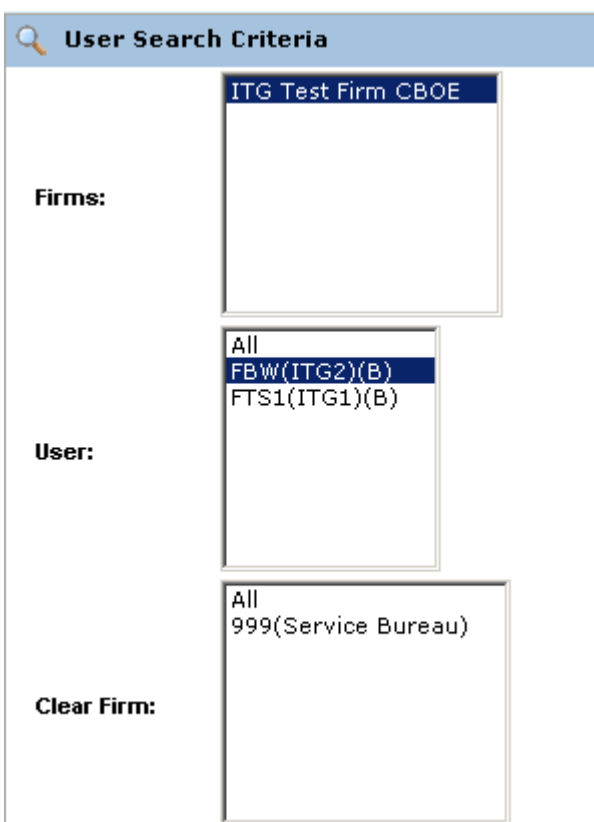
- The session and trade date
- Near real-time monitoring or a fixed time range
- Underlying and Class selections or select classes by Post and Station (P/S)

The User Search Criteria section allows you to filter your Market Replay requests by Firm, Market Maker, or Clearing Firm. The window defaults to display your Firm name, your Firm's users and Clearing Firms.



The dialog box titled "User Search Criteria" contains two sections. The "Firms:" section has a dropdown menu with "ITG Test Firm CBOE" selected. The "User:" section has a dropdown menu with "All", "FBW(ITG2)(B)", and "FTS1(ITG1)(B)" listed, with "FBW(ITG2)(B)" selected.

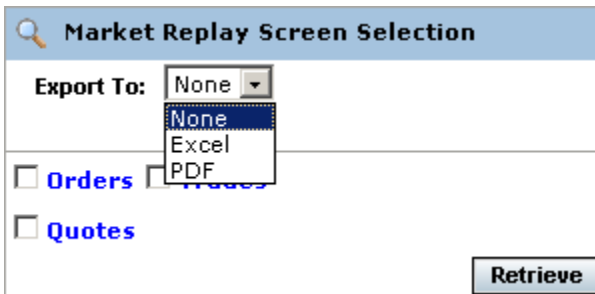
If you select only one user from the User list, only the Clearing Firm for that user will display in the Clear Firm list box.



The dialog box titled "User Search Criteria" is identical to the one above, but it includes a third section at the bottom labeled "Clear Firm:". This section has a dropdown menu with "All" and "999(Service Bureau)" listed, with "999(Service Bureau)" selected.

The Market Replay Screen Selection section allows you to filter your Market Replay requests by Orders, Trades and Quotes.

You can also export the data to Excel or PDF formats.

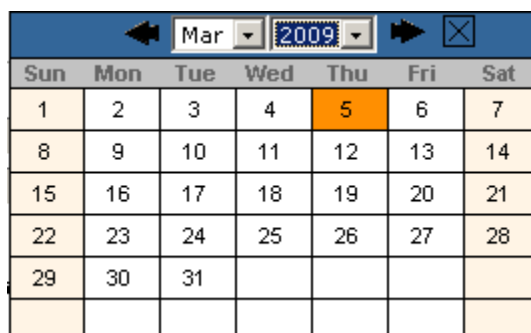


The image shows a software dialog box titled "Market Replay Screen Selection". It features a search icon in the top left corner. Below the title bar, there is a section labeled "Export To:" with a dropdown menu currently showing "None". The dropdown menu is open, displaying three options: "None", "Excel", and "PDF". Below this section, there are two checkboxes: "Orders" and "Quotes", both of which are currently unchecked. At the bottom right of the dialog box is a button labeled "Retrieve".

**Orders** Market Replay allows you to retrieve your Firms order information. Make your selections from the **Market Replay Main Search Criteria** section of the window.

- Select the trading session from the **Session** drop down list.
- The date of the request defaults to the current business day and is displayed in the **Trade Date** text box.
- To choose a previous trading day, click on the calendar button. The following calendar window will display.

📅 **Note:** The data warehouse maintains trade information for three years.



Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Click on the trade day you wish to query. The date will display in the **Trade Date** text box.
- Choose the time of your request as near real time by selecting the **Near Real Time** checkbox. If you would like to select a fixed time range, deselect the **Near Real Time Monitoring** checkbox. Enter the **Start Time** and **End Time** by, hour:minutes:seconds:milliseconds (i.e. Start Time: 10:48:00:000, End Time: 13:55:00:000).

📅 **Note:** The maximum valid time range is 20 minutes.

- Class/Series selection by post and station (**P/S**)
  - To query all the class and series at every post/station, select the **P/S** checkbox. The **P/S** drop down list will gray out, defaulting to query **ALL** post/stations.
  - If you wish to generate data for all the class and series activity for a specific Post and Station, select the Post/Station from the **P/S** drop down list box.
- Class/Series selection
  - Select the underlying security from the **Underly** drop down list box or select a class from the **Class** drop down list box. Select **ALL** for both to retrieve all class and series information.
  - Specify the series you are interested in viewing by clicking on the corresponding checkbox.

📅 **Note:** You must select a series, clearing firm or broker in order to retrieve the data.

Market Replay Main Search Criteria		User Search Criteria	
Session:	Options	Firms:	ITG Test Firm CBOE
Trade Date:	03/05/2009 <input type="button" value="Refresh"/>	User:	All FBW(ITG2)(B) FTS1(ITG1)(B)
Near Real Time:	<input type="checkbox"/>	Clear Firm:	All 999(Service Bureau)
Start Time:	13 : 33 : 24 . 000		
End Time:	13 : 53 : 24 . 000		
P/S:	All <input checked="" type="checkbox"/>		
Underly:	AAPL		
Class:	*ALL*		
All Series	<input checked="" type="checkbox"/>		
Strategies	<input type="checkbox"/>		
All series selected.			
		Market Replay Screen Selection	
		Export To: None	
		<input checked="" type="checkbox"/> Orders <input type="checkbox"/> Trades	
		Query By: Activity Time	
		B/S: All	
		Order Type: All	
		Auct Type: All	
		Contingency: All	
		TIF: All	
		Order Status: All	
		Origin Type Code: All	
		<input type="checkbox"/> Quotes <input type="button" value="Retrieve"/>	

- To further filter your request, select to retrieve **Orders**, **Quotes**, or **Trades**. Select **Orders**.
- You can further filter your order requests by: Query (Activity Time or Receive Time), Buy/Sell (B/S), Order Type, Auction Type, Contingency, TIF, Order Status or Origin Type Code. Make your selections from the corresponding dropdown lists. The default for the filters is **All**.
- To save the query results to an Excel or PDF format, select either format from the **Export To**: drop down list. For export details, refer to the Exporting Data section, page 31.
- If you are satisfied with your selections and would like to view the data, click **Retrieve**. The **Orders** window will display with the requested data.

Market Replay

User ID : castroo

Chicago Board Options Exchange

Help

Orders for Trade Date: 03/05/2009

Trade Date: 03/05/2009

Session: Options

Start Time: 13:33:24.000

End Time: 13:53:24.000

P/S: All

Underl: AAPL

Class: \*ALL\*

All Series: Y

Firm: ITG Test Firm CBOE

MM: All

C. Firm: All

Refresh

Order Type: All

Auct Type: All

Cntg: All

TIF: All

Status: All

Origin: All

B/S: All

Export PDF

Export XLS

Rcv Time	E Firm	CMTA	E Brkr	S Acct	OR	OC	B/S	Qty	Price	TIF	Cntg	Rtd Loc	Status	Trade Qty	Trade Price	Corr Firm	ORSID	B Code	B Seq	Auct	Linkd
Series: AAPL QAA MAR09 80.00 P P/S: 03/03																					
13:50:54: 585	501		FBW	47y9	C	C	S	20	\$1.20	DAY	NONE		Cancelled	10	\$1.20	FER	AQX000	XEB	8		
Series: AAPL QAA MAR09 105.00 C P/S: 03/03																					
11:06:05: 974	255	052	FTS1	S75	C	O	B	50	\$0.19	DAY	NONE		Cancelled			LIQX	AQJN10	TAL	82		
13:37:05: 290	255	052	FTS1	S75	C	O	B	95	\$0.19	DAY	NONE		Cancelled			LIQX	AQX300	TAL	107		
13:32:53: 087	161		FTS1	CLIENT	C	C	B	5	\$0.25	DAY	NONE		Filled	5	\$0.25	LIQX	AQWJ10	MER	352		

Export PDF

Export XLS

Order Types: Black=Simple, Red=Complex, Blue=Complex Auction, Purple=Simple Auction, Pink=HALD Auction

Order Status: Green=MD, Cancelled, Black=Other

<b>TIF</b>	D=Day, G=Good until cancelled, T=Good until expire time
------------	---

To view order details, click on the corresponding value in the ORSID column for the selected data row. The order history window will display.

**Market Replay**
User ID : castroo
Chicago Board Options Exchange
[Help](#)

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**Order History for Order UID:375828868441972**

Trade Date:	03/05/2009	Received Time:	13:50:54: 585	Series:	AAPL QAA MAR09 80.00 P	B/S:	Sell	TIF:	DAY
ORSID:	AQX000	Branch Code:	XEB	Branch Seq#:	8	Source:	S	Cntg:	NONE
Original Size:	20	Traded Vol:	10	Cncl Vol:	10	Book Vol:	0	Cncl Req. Vol:	0
Cntg Vol:	0	Corr. Firm:	FER	CMTA Firm:		Exec Firm:	501	Origin:	C
Opt Text:	47y9 XEB10								
Extension Text:	21=1,BARTID=Z,60=20090305-19:50:54								
Sbt User UID:	0	User Assigned ID:							

[Export PDF](#)
[Export XLS](#)
☐ **Hist. Detail**

---

**Order Events History**

Event Time	Event Type	Sub Event Type	Price	Acct	T Price	T Qty	Remdr	Bkd	Bstd	Msmt	Cncl	Cancel Reason	SRC Loc	RT Loc
13:50:54: 585	NEW ORDER		\$1.20										FBW2	
13:50:54: 595	ORDER_ROUTED		\$1.20										FBW2	PAR3:XGC:W055
13:50:56: 621	HYBRID_PROCESSING_REQUESTED		\$1.20										PAR3:XGC:W055	ProdBC94x1HybridTi
13:50:56: 621	MANUAL_ORDER_BOOK		\$1.20										PAR3:XGC:W055	PAR3:XGC:W055
13:50:56: 622	ORDER_ROUTED		\$1.20										PAR3:XGC:W055	ProdBC94x1HybridTi
13:50:56:	BOOK ORDER		\$1.20					20					PAR3:XGC:W055	ProdBC94x1HybridTi

Click on the **Hist. Detail** checkbox to obtain BBO, NBBO and BOTR details. Move the scroll bar to the right to view the data.

If the order is an Auction order, the Auction order details display in the lower portion of the window.

**Auction Order Detail**

Start Time	End Time	Expr Time	Time To Live	Price	Qty	State	Type	Term Reason	Term Quote Key	Term User Id
14:06:50:147	14:06:51:151	14:06:51:148	1000	\$-0.23	245	Ended	2	Normal	0	

  
Valid Codes &  
Definitions

Column	Description
<b>Start Time</b>	When auction starts and RFQ is sent
<b>End Time</b>	When auction processing completes, including fill allocation (time when finished expiring the auction)
<b>Expr Time</b>	When auction processing completes, including fill allocation (time when CBOE starts processing the auction expiration).
<b>Time to Live (sec)</b>	Configured and calculated auction timeout period in milliseconds. It is the time period in milliseconds for which the auction will be live/active. Once the time to live expires, the auction order will get traded.
<b>Price</b>	Auction starting price
<b>Qty</b>	Auction quantity
<b>State</b>	State of the auction: Started or Ended
<b>Type</b>	Internalization, strategy, regular single, HAL, SAL, unspecified

<b>Term Reason</b>	Auction terminate reason: UNSPECIFIED = 0 ORDER_MARKETABLE_AGAINST_BOOK = 1 ORDER_MARKETABLE_AGAINST_AUCTION = 2 QUOTE_BID_LOCK = 3 QUOTE_ASK_LOCK = 4 QUOTE_BID_TRIGGER = 5 QUOTE_ASK_TRIGGER = 6 QUOTE_MARKETABLE_AGAINST_AUCTION = 7 Q_ORDER_LOCK = 8 Q_ORDER_TRIGGER = 9 Q_ORDER_MARKETABLE_AGAINST_AUCTION = 10 AUCTION_RESPONSE = 11 NEW_AUCTION = 12 AUCTIONED_ORDER_CANCEL = 13 PRODUCT_STATE_CHANGE = 14
<b>Term Quote Key</b>	The quote key value for the terminated the auction.
<b>Term User ID</b>	The identification of the user who terminated the auction.

To view order filled details, click on the **FILL ORDER** link for the interested data row. The Trade Detail window will display. The Related Orders windows will display only if there are associated orders.

Related Orders



Rcv Time	E Firm	CMTA	E Bkr	S Acct	OR	OC	B/S	Qty	Price	TIF	Cntg	Rtd Loc	Status	Trade Qty	Trade Price	Corr Firm	ORSID	B Code	B Seq	Auct	Link
Series: AAPL QAA APR09 110.00 P																					
14:00:02:097	501				A	O	S	6	\$1.20	DAY	NONE		Filled	6	\$1.20	LKO	AREJ20	XGC	1143		OUT

Trade Detail

Sell Side												Buy Side											
Trade Time	Exc Fm	Cmta Fm	Exc Bkr	Acr LogID	Acc Of	OR	OC	O/Q	Exc Fm	Cmta Fm	Exc Bkr	Acr LogID	Acc Of	OR	OC	O/Q	Trade Price	Contr Qty	Total Qty	Mkt Cond	B	Trade Id	
14:00:00:134	792	141	XXH	FBW-FBW2		C	O	Ord									\$1.21	23				87652:702430	

The Related Orders window provides details on orders associated to the original order. Click on the **ORSID** in the Related Orders window to view information for this particular order.



Order History for Order UID:376471463921712														
Trade Date:	04/06/2009	Received Time:	14:00:02: 097	Series:	AAPL QAA APR09 110.00 P	B/S:	Sell	TIF:	DAY					
ORSID:	AREJ20	Branch Code:	XGC	Branch Seq#:	1143	Source:	P	Cntg:	NONE					
Original Size:	6	Traded Vol:	6	Cncl Vol:	0	Book Vol:	0	Cncl Req. Vol:	0					
Cntg Vol:	0	Corr. Firm:	LKO	CMTA Firm:		Exec Firm:	501	Origin:	A					
Link:	Outbound	Opt Text:												
Extension Text:	<a href="#">Linkage Extension Text</a>													
Sbt User UID:	0	User Assigned ID:												
<div><div> Export PDF</div><div> Export XLS</div><div><input type="checkbox"/> Hist. Detail</div></div>														
Order Events History														
Event Time	Event Type	Sub Event Type	Price	Acct	T. Price	T. Qty	Remdr	Bkd	Bstd	Msmtd	Cncl	Cancel Reason	SRC Loc	RT Loc
14:00:02:100	NEW ORDER		\$1.20	QZR									PAR3:025153:170.137.25.153	NASDQ
14:00:02:108	ROUTE_TO_AWAY_EXCHANGE		\$1.20	QZR									PAR3:025153:170.137.25.153	NASDQ
14:00:02:323	<a href="#">FILL ORDER</a>	Within BOTR	\$1.20	QZR	\$1.20	1							NASDQ	OHS
14:00:02:324	EXECUTION_REPORT_ROUTED		\$1.20	QZR									NASDQ	PAR3:025153:170.137.25.153
14:00:02:331	<a href="#">FILL ORDER</a>	Within BOTR	\$1.20	QZR	\$1.20	5							NASDQ	OHS
14:00:02:331	EXECUTION_REPORT_ROUTED		\$1.20	QZR									NASDQ	PAR3:025153:170.137.25.153

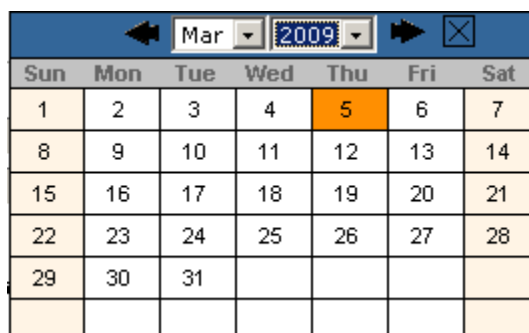
ORSID AREJ20 is a Linkage order. Click on the **Linkage Extension Text** link to view the Linkage details.

Description	Tag Value
Handling Instruction	Automated exec,private, no Broker intervention.
6818	OLA
Transaction Time	20090406-14:00:02.090
Dest Exchange	NASDQ
AutoExec Size	10

**Quotes** Market Replay allows you to retrieve your Firms quote information. Make your selections from the **Market Replay Main Search Criteria** section of the window.

- Select the trading session from the **Session** drop down list.
- The date of the request defaults to the current business day and is displayed in the **Trade Date** text box.
- To choose a previous trading day, click on the calendar button. The following calendar window will display.

📅 **Note:** The data warehouse maintains trade information for three years.



Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Click on the trade day you wish to query. The date will display in the **Trade Date** text box.
- Choose the time of your request as near real time by selecting the **Near Real Time** checkbox. If you would like to select a fixed time range, deselect the **Near Real Time Monitoring** checkbox. Enter the **Start Time** and **End Time** by, hour:minutes:seconds:milliseconds (i.e. Start Time: 10:48:00:000, End Time: 13:55:00:000).

📅 **Note:** The maximum valid time range is 20 minutes.

- Class/Series selection by post and station (**P/S**)
  - To query all the class and series at every post/station, select the **P/S** checkbox. The **P/S** drop down list will gray out, defaulting to query **ALL** post/stations.
  - If you wish to generate data for all the class and series activity for a specific Post and Station, select the Post/Station from the **P/S** drop down list box.
- Class/Series selection
  - Select the underlying security from the **Underly** drop down list box or select a class from the **Class** drop down list box. Select **ALL** for both to retrieve all class and series information.
  - Specify the series you are interested in viewing by clicking on the corresponding checkbox.

📅 **Note:** You must select a series, clearing firm or broker in order to retrieve the data.

Market Replay Main Search Criteria			
Session:	Options		
Trade Date:	02/05/2008	Refresh	
Near Real Time: <input type="checkbox"/>			
Start Time:	10	30	46.000
End Time:	10	50	46.000
P/S:	All	<input checked="" type="checkbox"/>	
Underly:	JNJ	Class:	JNJ
All Series	<input type="checkbox"/>		
Strategies	<input type="checkbox"/>		

Series Class	Call Exer. Price	Put Exer. Price
ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
JNJ FEB08	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 45.00	<input type="checkbox"/> 45.00
	<input type="checkbox"/> 50.00	<input type="checkbox"/> 50.00
	<input type="checkbox"/> 55.00	<input type="checkbox"/> 55.00
	<input type="checkbox"/> 60.00	<input type="checkbox"/> 60.00
JNJ FEB08	<input type="checkbox"/> 65.00	<input type="checkbox"/> 65.00
	<input type="checkbox"/> 70.00	<input type="checkbox"/> 70.00
	<input type="checkbox"/> 75.00	<input type="checkbox"/> 75.00

User Search Criteria	
Firms:	Automated API Firm
User:	All JFI(Automated API MM User 2)(M) JFJ(Automated API MM User)(M)
Clear Firm:	All 999(Service Bureau)

Market Replay Screen Selection	
Export To:	None
<input type="checkbox"/> Orders	<input type="checkbox"/> Trades
<input checked="" type="checkbox"/> Quotes	
Quote Event Type:	All

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- To further filter your request, select to retrieve **Orders**, **Quotes** or **Trades**, Select **Quotes**.
- You can further filter your quote requests by **Quote Event Type**. Make your selections from the corresponding dropdown lists. The default for the filters is **All**.
- To save the query results to an Excel or PDF format, select either format from the **Export To**: drop down list. For export details, refer to the Exporting Data section, page 31.
- If you are satisfied with your selections and would like to view the data, click **Retrieve**. The **Quotes** window will display with the requested data.

Quotes for Trade Date: 02/05/2008

Trade Date: 02/05/2008      Sessions:      Options:      Start Time: 10:30:46.000      End Time: 10:50:46.000  
P/S: All      Underl: JNJ      Class: JNJ      C. Firm: All      All Series:

Firm: Automated API Firm      MM: All

Quote Event Type: All

Quote Time	Quote Event	Buy/Sell	Bid Qty	Bid Price	Ask Price	Ask Qty	Cancel Reason	UserAcct/LogID	Trade Qty	Trade Price	Remn Qty
Series: JNJ JNJ FEB00 45.00 C      P/S: 02/05											
10:30:59:953	FillQuote	S	10000	\$6.20	\$6.40	9760		JFJ-JFJ	10	\$6.40	9760
10:31:22:797	FillQuote	S	10000	\$6.20	\$6.40	9750		JFJ-JFJ	10	\$6.40	9750
10:31:55:880	FillQuote	S	10000	\$6.20	\$6.40	9740		JFJ-JFJ	10	\$6.40	9740
10:32:20:057	FillQuote	S	10000	\$6.20	\$6.40	9730		JFJ-JFJ	10	\$6.40	9730
10:32:47:122	FillQuote	S	10000	\$6.20	\$6.40	9720		JFJ-JFJ	10	\$6.40	9720
10:33:15:950	FillQuote	S	10000	\$6.20	\$6.40	9710		JFJ-JFJ	10	\$6.40	9710
10:33:39:676	FillQuote	S	10000	\$6.20	\$6.40	9700		JFJ-JFJ	10	\$6.40	9700
10:34:04:493	FillQuote	S	10000	\$6.20	\$6.40	9690		JFJ-JFJ	10	\$6.40	9690
10:34:54:604	FillQuote	S	10000	\$6.20	\$6.40	9680		JFJ-JFJ	10	\$6.40	9680
10:35:19:740	FillQuote	S	10000	\$6.20	\$6.40	9670		JFJ-JFJ	10	\$6.40	9670
10:35:44:757	FillQuote	S	10000	\$6.20	\$6.40	9660		JFJ-JFJ	10	\$6.40	9660
10:36:13:064	FillQuote	S	10000	\$6.20	\$6.40	9650		JFJ-JFJ	10	\$6.40	9650
10:36:40:775	FillQuote	S	10000	\$6.20	\$6.40	9640		JFJ-JFJ	10	\$6.40	9640
10:37:04:325	FillQuote	S	10000	\$6.20	\$6.40	9630		JFJ-JFJ	10	\$6.40	9630
10:37:32:120	FillQuote	S	10000	\$6.20	\$6.40	9620		JFJ-JFJ	10	\$6.40	9620
10:37:57:430	FillQuote	S	10000	\$6.20	\$6.40	9610		JFJ-JFJ	10	\$6.40	9610
10:38:22:704	FillQuote	S	10000	\$6.20	\$6.40	9600		JFJ-JFJ	10	\$6.40	9600
10:39:47:964	Cancel	S	10000	\$6.20	\$6.40	9600		JFJ-JFJ	10	\$6.40	9600

Quote Types: Red=Quote, Black=Market Condition, Green=Fill Quote

In the example above, quote information for class JNJ displays for the W\_MAIN session.

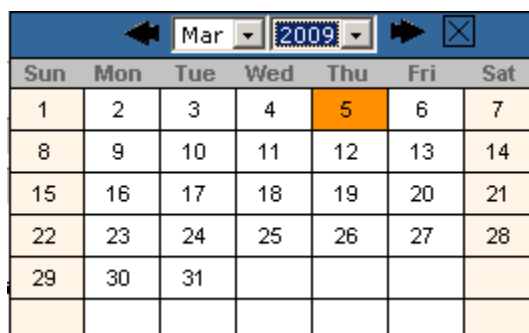
Market Replay gives you the ability to sort on the contents of any column in the display by clicking on the column heading.

Click **Refresh** at anytime to update the window display.

**Trades** Market Replay allows you to retrieve your Firms trade information. Make your selections from the **Market Replay Main Search Criteria** section of the window.

- Select the trading session from the **Session** drop down list.
- The date of the request defaults to the current business day and is displayed in the **Trade Date** text box.
- To choose a previous trading day, click on the calendar button. The following calendar window will display.

📅 **Note:** The data warehouse maintains trade information for three years.



Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Click on the trade day you wish to query. The date will display in the **Trade Date** text box.
- Choose the time of your request as near real time by selecting the **Near Real Time** checkbox. If you would like to select a fixed time range, deselect the **Near Real Time Monitoring** checkbox. Enter the **Start Time** and **End Time** by, hour:minutes:seconds:milliseconds (i.e. Start Time: 10:48:00:000, End Time: 13:55:00:000).

📅 **Note:** The maximum valid time range is 20 minutes.

- Class/Series selection by post and station (**P/S**)
  - To query all the class and series at every post/station, select the **P/S** checkbox. The **P/S** drop down list will gray out, defaulting to query **ALL** post/stations.
  - If you wish to generate data for all the class and series activity for a specific Post and Station, select the Post/Station from the **P/S** drop down list box.
- Class/Series selection
  - Select the underlying security from the **Underly** drop down list box or select a class from the **Class** drop down list box. Select **ALL** for both to retrieve all class and series information.
  - Specify the series you are interested in viewing by clicking on the corresponding checkbox.

📅 **Note:** You must select a series, clearing firm or broker in order to retrieve the data.

### Market Replay Main Search Criteria

**Session:** Options  
**Trade Date:** 4/6/2009 Refresh

**Near Real Time:** ☒

**Start Time:** 13 : 59 : 17 . 000  
**End Time:** 14 : 19 : 17 . 000

**P/S:** All ☒

**Underly:** AAPL **Class:** \*ALL\*

**All Series** ☐ **Strategies** ☐

Series Class	Call Exer. Price	Put Exer. Price
ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AAQ APR09	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 15.00	<input type="checkbox"/> 15.00
	<input type="checkbox"/> 17.50	<input type="checkbox"/> 17.50
	<input type="checkbox"/> 20.00	<input type="checkbox"/> 20.00
	<input type="checkbox"/> 22.50	<input type="checkbox"/> 22.50
AAQ APR09	<input type="checkbox"/> 25.00	<input type="checkbox"/> 25.00
	<input type="checkbox"/> 30.00	<input type="checkbox"/> 30.00
	<input type="checkbox"/> 35.00	<input type="checkbox"/> 35.00

### User Search Criteria

**Firms:** ITG Test Firm CBOE

**User:** All  
 FBW(ITG2)(B)  
 FTS1(ITG1)(B)

**Clear Firm:** All  
 999(Service Bureau)

### Market Replay Screen Selection

**Export To:** None

☐ Orders ☒ Trades

**Trade Type:** All

☐ Quotes

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- To further filter your request, select to retrieve **Orders**, **Quotes**, or **Trades**. Select **Trades**.
- You can further filter your trade request by **Trade Type**. Make your selections from the corresponding dropdown lists. The default for the filters is **All**.
- To save the query results to an Excel or PDF format, select either format from the **Export To**: drop down list. For export details, refer to the Exporting Data section, page 31.
- If you are satisfied with your selections and would like to view the data, click **Retrieve**. The **Trades** window will display with the requested data.



Market Replay

User ID : castroo

Chicago Board Options Exchange

Help

---

Order History for Order UID:376471463921077

Trade Date:	04/06/2009	Received Time:	14:00:00: 072	Series:	AAPL QAA APR09 110.00 P	B/S:	Sell	TIF:	DAY
ORSID:	ARLIP0	Branch Code:	MLB	Branch Seq#:	39	Source:	5	Cntg:	NONE
Original Size:	105	Traded Vol:	105	Cncl Vol:	0	Book Vol:	2	Cncl Req. Vol:	0
Cncl Vol:	0	Corr. Firm:	PM6	CMTA Firm:	141	Exec Firm:	792	Origin:	C
Opt Test:	MLB3								
Extension Text:	Z1=1,PDPM=SIG,60=20090406-19:00:00								
Std User UID:	0	User Assigned ID:							

Export PDF
 Export XLS

☐ Hist. Detail

---

Order Events History

Event Time	Event Type	Sub Event Type	Price	Acct	T. Price	T. Qty	Remdr	Bkd	dst	Msmd	Cncl	Cancel Reason	SRC Loc	
14:00:00: 072	NEW_ORDER		\$1.20										FBV2	
14:00:00: 076	ORDER_ROUTED		\$1.20										FBV2	ProdBC94
14:00:00: 089	HYBRID_PROCESSING_REQUESTED		\$1.20										ProdBC94x1HybridTradeServer1	ProdBC94
14:00:00: 093	AUCTION_START		\$1.20										ProdBC94x1HybridTradeServer1	ProdBC94
14:00:00: 093	ORDER_ROUTED		\$1.20										ProdBC94x1HybridTradeServer1	ProdBC94
14:00:00: 094	AUCTION_END		\$1.20										ProdBC94x1HybridTradeServer1	ProdBC94

---

Auction Order Detail

Start Time	End Time	Expr Time	Time To Live	Price	Qty	State	Type	Term Reason	Term Quote Key	Term User Id
14:00:00:91	14:00:00:98	14:00:00:98	150	\$1.21	105	Ended	4	Quote Trigger	0	

---

Related Orders

Rev Time	Firm	CMTA	Firm	S Acct	OR	OC	B/S	Qty	Price	TIF	Cntg	Rid Loc	Status	Trade Qty	Trade Price	Exec Firm	ORSID	B Code	B Seq	Auct	Linkd
Series:	AAPL QAA APR09 110.00 P																				
14:00:02: 097	501				A	O	S	6	\$1.20	DAY	NONE		Filled	6	\$1.20	LJKO	AREJ01	XGC	1143		OUT

Market Replay gives you the ability to sort on the contents of any column in the display by clicking on the column heading.

Valid codes and column definitions that are represented in the Trades window are defined in the table below.



Column	Description
OR	P/A Linkage = 'A' B/D = 'B' CUSTOMER = 'C' Customer-FBW = 'D' Member, House Account = 'E' FIRM = 'F' User Proxy for trader, Customer Segregated = 'G' User Proxy for trader, House Account = 'H' In-Crowd MM = 'I' Firm - FBW = 'J' B/D-FBW='K' Firm-FBW='L'



	MARKET_MAKER = 'M' Away MM='N' Non Member, House Account='O' Principle Linkage = 'P' Member, SIPC Protected Account = 'Q' User Proxy for trader, SIPC Protected Account = 'R' Satisfaction Linkage = 'S' Non Member, SIPC Protected Account='T' M-FBW='U' Member, Customer Segregated Account='V' Broker/Dealer-FBW='W' Customer Broker/Dealer='X' Underly Specialist='Y' N,Y-FBW='Z'
<b>OC</b>	O=Open, C=Close
<b>Sell Side/Acc of</b>	This column will be populated with a Q account if this side of the trade was originated by a DPM, otherwise, it will be populated with the Broker or Market Maker acronym. If the order originator is not a Market Maker or a broker, then the value in this field will not be validated by CBOE <sup>®</sup> direct <sup>™</sup> .
<b>Buy Side/ Acc of</b>	This column represents the buyer's account information. If this is a trade from a quote, the Q account or Market Maker acronym is displayed. If this is a trade from an order, it is a free form field for the firm.
<b>Mkt Cond</b>	CANC=trade bust report CNCO=trade bust report for opening trade FTAO=used if the first trade for product occurs after the opening OPNT=used if first trade for product occurs during opening REOP=trade that occurs during an opening rotation that is not the first rotation of the day
<b>S (Trade Source)</b>	How the trade was entered. SYSTEM or MANUAL. The Help Desk has the ability to enter a manual trade (block trade)
<b>B</b>	The letter 'B' stands for Bust. An * displayed in this column represents a busted trade.

**Composite Display** Market Replay allows you to query for more than one type of criteria (orders, trades and quotes). In the example below, the query has been set to display both orders and trades for the AAPL class.

Market Replay Main Search Criteria		
Session:	Options	
Trade Date:	4/6/2009 <input type="button" value="Refresh"/>	
Near Real Time: <input type="checkbox"/>		
Start Time:	13:37:30.000	
End Time:	14:57:30.000	
P/S:	All <input checked="" type="checkbox"/>	
Underly:	AAPL Class: *ALL*	
All Series	<input type="checkbox"/>	
Strategies	<input type="checkbox"/>	
Series Class	Call Exer. Price	Put Exer. Price
ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AAQ APR09	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 15.00	<input type="checkbox"/> 15.00
	<input type="checkbox"/> 17.50	<input type="checkbox"/> 17.50
	<input type="checkbox"/> 20.00	<input type="checkbox"/> 20.00
	<input type="checkbox"/> 22.50	<input type="checkbox"/> 22.50
AAQ APR09	<input type="checkbox"/> 25.00	<input type="checkbox"/> 25.00
	<input type="checkbox"/> 30.00	<input type="checkbox"/> 30.00
	<input type="checkbox"/> 35.00	<input type="checkbox"/> 35.00

User Search Criteria	
Firms:	ITG Test Firm CBOE
User:	All FBW(ITG2)(B) FTS1(ITG1)(B)
Clear Firm:	All 999(Service Bureau)

Market Replay Screen Selection	
Export To:	None
<input checked="" type="checkbox"/> Orders	<input checked="" type="checkbox"/> Trades
Query By:	Activity Time
B/S:	All
Order Type:	All
Auct Type:	All
Contingency:	All
TIF:	All
Order Status:	All
Origin Type Code:	All
Trade Type:	All
<input type="checkbox"/> Quotes	
<input type="button" value="Retrieve"/>	

Two windows display for the query; Orders and Trades.

Market Replay

User ID : castroo

Chicago Board Options Exchange

Help

Orders for Trade Date: 04/06/2009

Trade Date: 04/06/2009

P/S: All

Firm: ITG Test Firm CBOE

Order Type: All

Status: All

Session: Options

Underl: AAPL

MM: All

Auct Type: All

Origin: All

Start Time: 13:37:30.000

Class: \*ALL\*

C. Firm: All

Cntg: All

B/S: All

End Time: 14:57:30.000

All Series:

Refresh

TIF: All

Export PDF

Export XLS

Rcv Time	E Firm	CMTA	E Brkr	S Acct	OR	OC	B/S	Qty	Price	TIF	Cntg	Rtd Loc	Status	Trade Qty	Trade Price	Corr Firm	DRSID	B Code	B Seq	Auct	Linkd
Series: AAPL APV																					
13:49:30 492	501	572	FBW	4Y311209	C	N	D	1,440	\$2.90	DAY	NONE		Filled	1,440	\$2.90	FAO	ARD2RQ	ASD	7		
13:52:33 384	551		FBW		F	N	O	1,440	\$-2.90	DAY	NONE		Cancelled	940	\$2.90	FAO	ARDHEQ	ASD	8		
13:53:07 573	551		FBW	8JZ	F	N	O	500	\$-2.90	DAY	NONE		Filled	500	\$2.90	FAO	ARDL20	ASD	9		
Series: AAPL QAA APR09 90.00 P P/S: 03/03																					
14:31:40 937	352		FTS1	burktrade	C	O	B	20	\$0.10	DAY	NONE		Filled	20	\$0.10	LIQX	ARY810	BRK	48		
Series: AAPL QAA APR09 110.00 P P/S: 03/03																					
13:59:36 209	792	141	FBW		C	O	S	105	\$1.22	DAY	NONE		Cancelled			FMB	AREGLQ	MLB	37		
14:00:00 072	792	141	FBW		C	O	S	105	\$1.20	DAY	NONE		Filled	105	\$1.21	FMB	AREIPQ	MLB	38	Ended	
Series: AAPL QAA MAY09 110.00 C P/S: 03/03																					
14:01:56 021	577	226	FTS1	700061441	C	O	S	25	\$13.00	DAY	NONE		Filled	25	\$13.00	LIQX	ARES00	EBS	23		

Export PDF

Export XLS

Order Types: Black=Simple, Red=Complex, Blue=Complex Auction, Purple=Simple Auction, Pink=HALO Auction

Order Status: Green=HD Cancelled, Black=Other

Order Types: Black=Simple, Red=Complex, Blue=Complex Auction, Purple=Simple Auction, Pink=HALO Auction  
Order Status: Green=HD Cancelled, Black=Other

Click on the **ORSID** for a data row to view order details.

Order History for Order UID:376471463921077

Trade Date:04/06/2009Received Time:14:00:00: 072Series:AAPL QAA APR09 110.00 PB/S:SellTIF:DAY

ORSID:AREIP0Branch Code:MLBBranch Seq#:38Source:SCntg:NONE

Original Size:105Traded Vol:105Cncl Vol:0Book Vol:2Cncl Req. Vol:0

Cntg Vol:0Corr. Firm:FMBCMTA Firm:141Exec Firm:792Origin:C

Opt Text:MLB3

Extension Text:Z1=1,PDPM=SIG,60=20090406-19:00:00

Sbt User UID:0User Assigned ID:

Export PDFExport XLS

Hist. Detail

Order Events History

Event Time	Event Type	Sub Event Type	Price	Acct	T. Price	T. Qty	Remdr	Bkd	Bstd	Nsmtd	Cncl	Cancel Reason	SRC Loc
14:00:00: 102	BOOK ORDER		\$1.20				105						ProdBC94x1HybridTradeServer1 ProdBC94
14:00:00: 104	AUCTION_TRIGGER_START		\$1.20										ProdBC94x1HybridTradeServer1 ProdBC94
14:00:00: 147	FILL ORDER	Within BOTR	\$1.20		\$1.21	23							ProdBC94x1HybridTradeServer1 ProdBC94
14:00:00: 150	FILL ORDER	Within BOTR	\$1.20		\$1.20	70							ProdBC94x1HybridTradeServer1 ProdBC94
14:00:00: 152	AUCTION_TRIGGER_END		\$1.20										ProdBC94x1HybridTradeServer1 ProdBC94

Auction Order Detail

Start Time	End Time	Expr Time	Time To Live	Price	Qty	State	Type	Term Reason	Term Quote Key	Term User Id
14:00:00:91	14:00:00:98	14:00:00:98	150	\$1.21	105	Ended	4	Quote Trigger	0	

For fill report details, click on the **FILL ORDER** link in the Order History window.

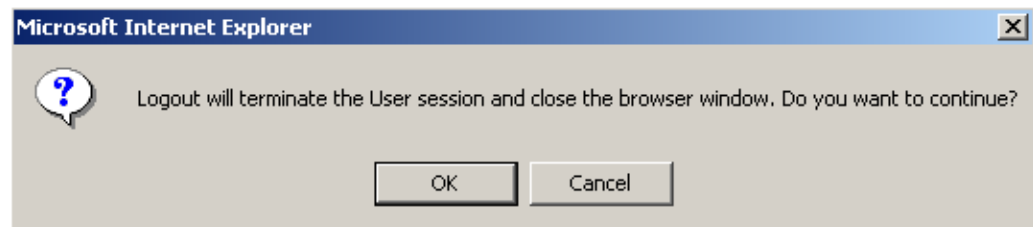
Trade Detail																					
Sell Side											Buy Side										
Trade Time	Exc Firm	Cmta Firm	Exc Brkr	Acr LogID	Acc Of	OR	OC	O/Q	Exc Firm	Cmta Firm	Exc Brkr	Acr LogID	Acc Of	OR	OC	O/Q	Trade Price	Contr Qty	Total Qty	Mkt Cond	Trade Id
14:00:00:137	792	141	XXH	FBW-FBW2		C	O	Ord									\$1.20	4			87652:70243945
14:00:00:137	792	141	XXH	FBW-FBW2		C	O	Ord									\$1.20	39			87652:70243945
14:00:00:137	792	141	XXH	FBW-FBW2		C	O	Ord									\$1.20	27			87652:70243945



## Ending a Market Replay Session

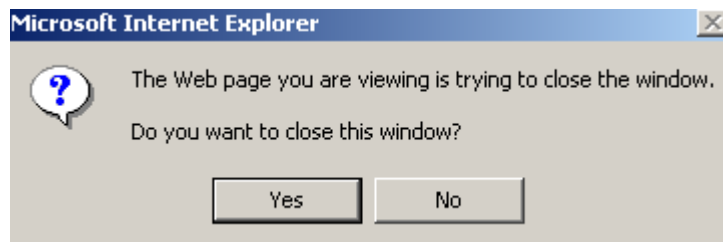
### Exit the System

To exit the Market Replay system, click **Logout** in the upper right corner of the window. The Market Replay system will prompt you to confirm your logout.



Click **OK** to confirm your logout request or click **Cancel** to remain in the system.

If you click **OK** the system will prompt you to reconfirm terminating the Market Replay session.



Click **No** to remain in the system.

Click **Yes** to close the application. You will be returned to your system desktop.



## **Section 2: Reference Guide**

## Exporting Data

Market Replay data can be exported to two different file formats: PDF and Excel.

### Export to PDF Format

Market Replay allows you to save your search results in PDF format.

To export your query results to PDF format, select your Main Search Criteria, User Search Criteria and Screen Selection.

The screenshot displays three panels for configuring a market replay search and export.

**Market Replay Main Search Criteria:**

- Session: Options
- Trade Date: 4/6/2009
- Refresh button
- Near Real Time: ☒
- Start Time: 13:33:59.000
- End Time: 13:53:59.000
- P/S: All
- Underly: AAPL
- Class: \*ALL\*
- All Series: ☐ Strategies: ☐

Series Class	Call Exer. Price	Put Exer. Price
ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
QAA MAR07	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 70.00	<input type="checkbox"/> 70.00
	<input type="checkbox"/> 75.00	<input type="checkbox"/> 75.00
	<input type="checkbox"/> 80.00	<input type="checkbox"/> 80.00
	<input type="checkbox"/> 85.00	<input type="checkbox"/> 85.00
QAA MAR07	<input type="checkbox"/> 90.00	<input type="checkbox"/> 90.00
	<input type="checkbox"/> 95.00	<input type="checkbox"/> 95.00
	<input type="checkbox"/> 100.00	<input type="checkbox"/> 100.00

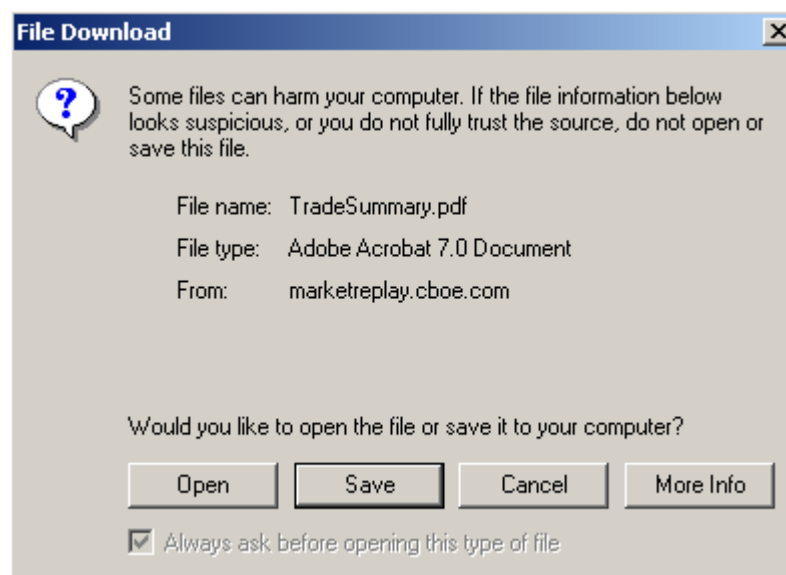
**User Search Criteria:**

- Firms: ITG Test Firm CBOE
- User: All, FBW(ITG2)(B), FTS1(ITG1)(B)
- Clear Firm: All, 999(Service Bureau)

**Market Replay Screen Selection:**

- Export To: PDF
- ☒ Orders ☐ Trades
- Query By: Activity Time
- B/S: All
- Order Type: All
- Auct Type: All
- Contingency: All
- TIF: All
- Order Status: All
- Origin Type Code: All
- ☐ Quotes
- Retrieve button

- From the **Export To** dropdown list, select **PDF**.
- Click **Retrieve**. The system will prompt you to either **Open** or **Save** the file to your computer. At this point, you may also cancel your format request by clicking on the **Cancel** button.



- To quickly view the data in PDF format, click **Open**. The data will be exported in PDF format.

Chicago Board Options Exchange  
 Order Summary Report for Trade Date and time: 03/05/2007 13:32:02.000 through 13:32:02.000

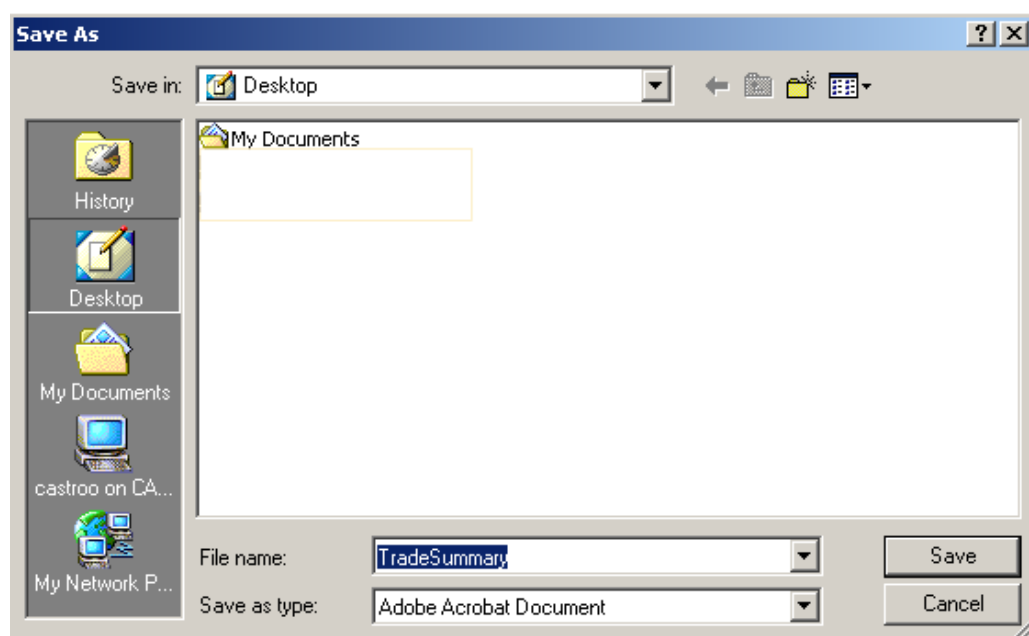
Input Parameters

Trade Date:	03/05/2007	Session:	Options	Start Time:	13:32:02.000	End Time:	13:32:02.000
P/S:	AI	UnderL:	AAPL	Class:	"ALL"	All Series Ind:	
Firms:	ITG Test Firm CBOE	MM Users:	AI	C. Firms:	AI		
Order Type:	AI	Auct Type:	AI	Contg:	AI	TIF:	AI
Status:	AI	Origin:	AI				

Order List

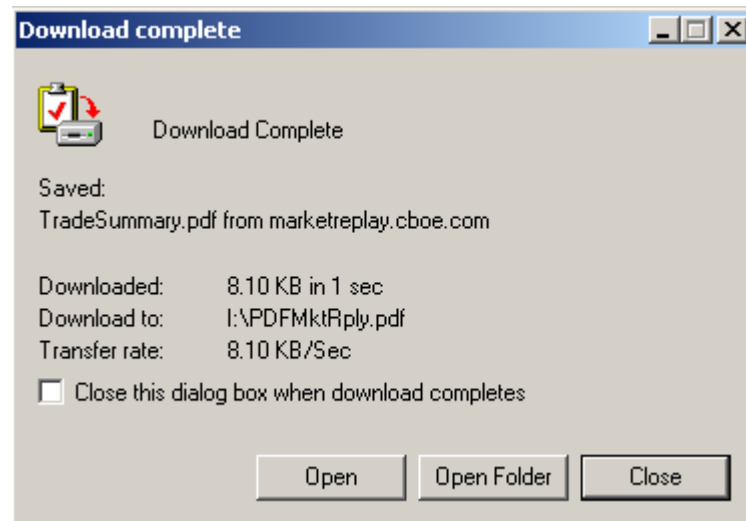
Series	P/S	Rcv Date	Rcv Time	E. Firm	CMTA	E. Brkr	Acct	S. Acct	OR	OC	B/S	Qty	Price	TIF	Contg	Status	Trd Qty	Trd Price	Corr. Firm	ORSID	B. Code	B. Seq#	Auct State
--------	-----	----------	----------	---------	------	---------	------	---------	----	----	-----	-----	-------	-----	-------	--------	---------	-----------	------------	-------	---------	---------	------------

- To store the data before viewing, click **Save**.



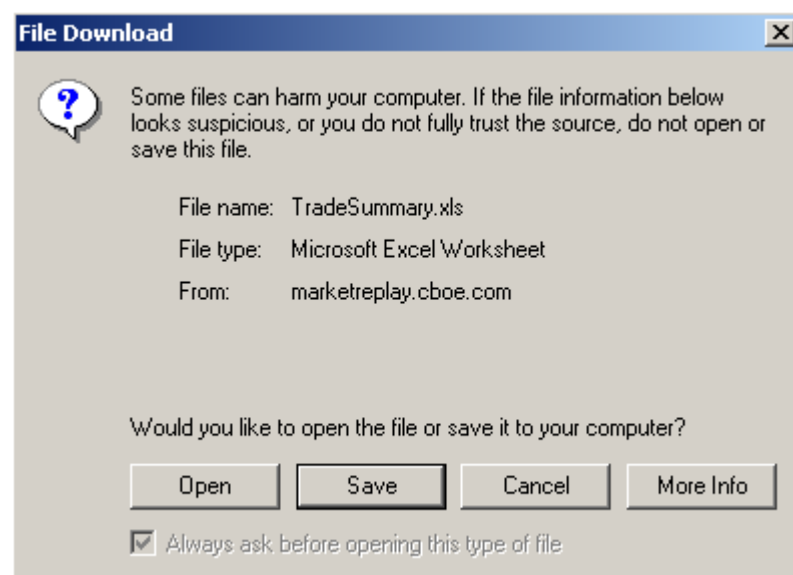


- Select the location where you want to save the file and enter the file name. If you wish to exit the window without saving the file, click **Cancel**.
- Click **Save**. Your file will be saved in PDF format. The system will display the **Download complete** window.



- Click **Open** to extract the data in PDF format, or select **Open Folder** to choose the file from the Windows directory.
- Click **Close** to exit the window without opening the PDF file.

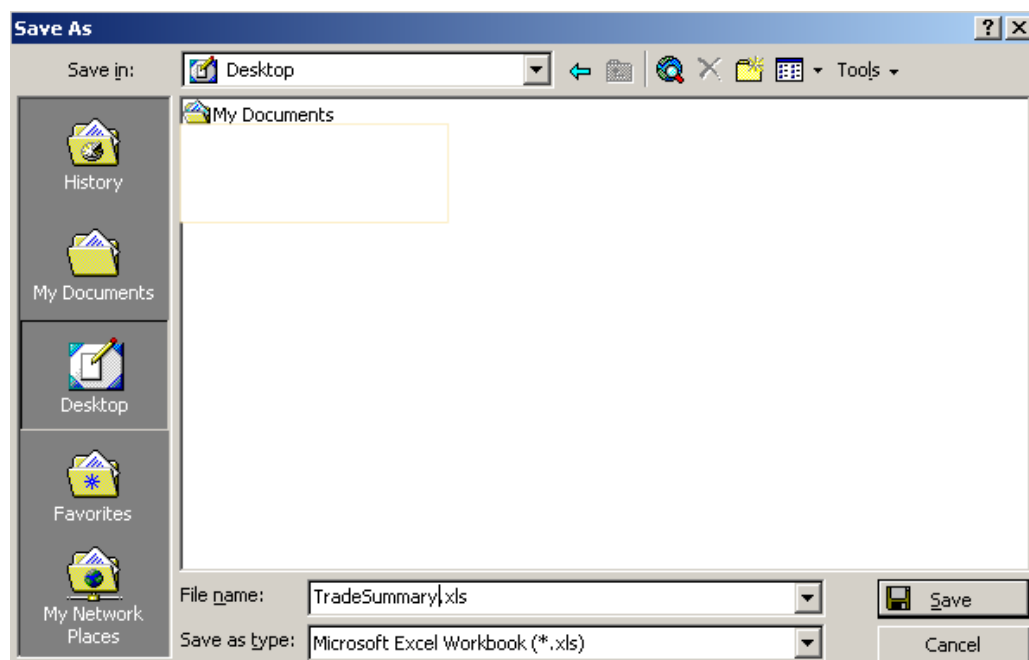
**Export to Excel** If you wish to export the data to an Excel spreadsheet, select **Excel** from the **Export To** drop down list. The system will prompt you to open an Excel window or save the data. If you wish to cancel your export request, click **Cancel**.



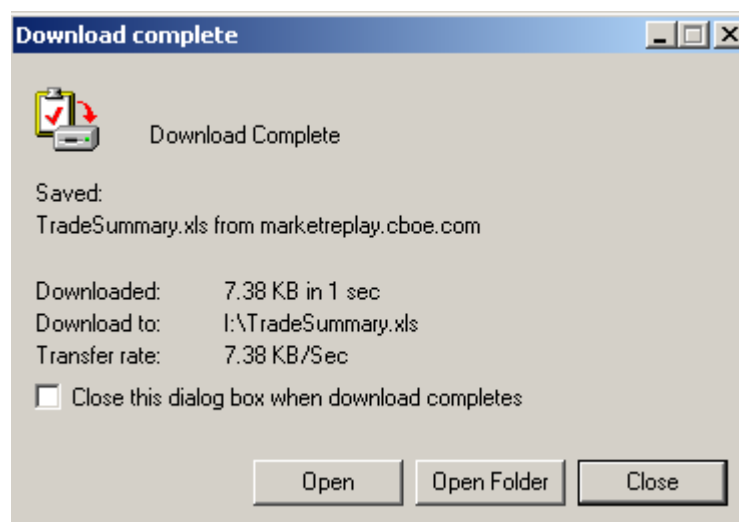
- To quickly view the data in Excel format, click **Open**. The data will be exported to Excel.

Series	Rev Date	Rev Time	E Firm	CMTA	E Bkr	S Acct	OR	OR Type	OC	B/S	Qty	Price	TIF	Orig	SRC	Rtd Loc	Rtd Loc Ty	Status	HU
1 Series																			
2 AAPL API	4/6/2009	13:49:30	4	501	572	FBW	4Y311209	C		N	D	1440	-2.9 DAY	NONE	S			Filled	N
3 AAPL API	4/6/2009	13:52:33	2	551		FBW		F		N	O	1440	-2.9 DAY	NONE	S			Cancelled	N
4 AAPL API	4/6/2009	13:53:07	2	551		FBW	8JZ	F		N	O	500	-2.9 DAY	NONE	S			Filled	N

- To store the data before viewing, click **Save**.



- Select the location where you want to save the file and enter the file name. If you wish to exit the window without saving, click **Cancel**.
- Click **Save**. Your file will be saved in Excel format. The system will display the Download complete window.



- Click **Open** to extract the data to Excel format or select **Open Folder** to choose the file from the Windows directory.
- Click **Close** to exit the window without opening the Excel file.

