

# **Trader's Guide**

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ONE BLUE HILL PLAZA, 10<sup>™</sup> FLOOR PEARL RIVER, NEW YORK 10965-8689

877 RITHMIC SALES 877 408 0008 TECH SUPPORT



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# Machine Configuration and Network Resource Recommendations and Requirements

Minimum hardware and network requirements for using R | Trader<sup>™</sup> may vary based on a number of factors including, but not limited to, the market data activity of the instruments being traded and/or monitored, the number of instruments being traded and/or monitored, the number of other software running concurrently.

#### **Operating System and .NET Framework Requirements**

Operating Systems Windows 7 Microsoft .NET Framework 3.5

#### **Machine and Network Recommendations**

CPU Single Dual Core or more RAM 4096MB or more Internet Bandwidth High Speed Cable or greater

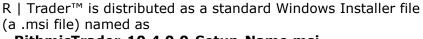
# Support

Support is available from your Futures Commission Merchant (FCM), your Broker-Dealer and/or your Introducing Broker (IB). Under certain circumstances, and upon special arrangement with your FCM, Broker-Dealer or IB, additional support may be made available from Rithmic, LLC directly.



## **Installation and Login**

# R|Trader<sup>™</sup>



## RithmicTrader-10.4.0.0-Setup-Name.msi,

where Name refers to the name of your FCM, Broker-Dealer, IB or trading organization, as the case may be.

Once the .msi file is copied to your machine, run it to install and configure the R | Trader<sup>™</sup> application. A shortcut will be placed on the desktop and an entry will be placed in the Start Menu under:

All Programs  $\rightarrow$  Rithmic  $\rightarrow$  Launch  $\rightarrow$  Rithmic Trader







Obtain a user id and password from your FCM, Broker-Dealer or IB and the name of the system to which you should connect. Through this user id you will have access to the various accounts setup by your FCM, Broker Dealer or IB on your behalf. You will be able to place, modify and cancel working orders on any of these accounts, subject to your risk settings (established and maintained by your FCM, Broker-Dealer or IB).

After launching R | Trader<sup>M</sup>, a login screen will prompt you to enter your user id, password and system. Enter your user id and password, select the system and click on the  $\mathbb{R}$  or press the enter key. If you are not sure which system to select, contact your FMC, Broker-Dealer or IB.



If you would like to launch R | Trader<sup>M</sup> without using your previous settings, click on <u>Skip</u> <u>Settings</u> instead of on the  $\mathbb{R}$ . At any time prior to completing the login process you may cancel your login by clicking on <u>Cancel</u> or by pressing the ESC key.

If you find that the login process takes a long time or if you are having trouble connecting, click on "ECL" located at the bottom left of the login screen. A window will pop up from which you may select or identify a file into which R | Trader<sup>™</sup> will log information about its connection process. Kindly e-mail the contents of that file to <u>operations@rithmic.com</u> so that Rithmic may use it to help determine the source of the connection problem.



## **Main Console**

The Main Console provides access to the various market data, risk management, position, order entry and history screens. Each screen (window) may be launched through a selection under the file menu or from the launch bar, pictured below.



Many of the screens allow you to customize their appearance, from choosing the columns of data to display, to setting fonts, colors and gridlines. Refer to **Appendix A** for details and instructions. Most windows indicate the status of their data feeds with small round colors, shaped like an led. A  $\bigcirc$  led displayed by a window for a data feed indicates that all data from that feed received by R | Trader<sup>TM</sup> destined for that window has been processed by that window. A  $\bigcirc$  led displayed by a window for a data feed indicates that some data received by R | Trader<sup>TM</sup> destined for that window still needs to be processed by that window. A  $\bigcirc$  led displayed by a window for a data feed indicates that some data the data feed indicates that the connection to that data feed has been broken.

The three numbers at the bottom right of the Main Console window (pictured above as 0.00, 0.00 and 0.00) indicate the number of market data messages per second received by R | Trader<sup>™</sup> over each of 3 separate rolling time intervals. You may set the length of each time interval in the preferences window (see **Window menu options**) but by default they are usually set to 5, 10 and 30 seconds respectively.



## **File menu options**

By selecting an option under the File menu, you have the ability to open a new window, change your password, save and retrieve settings or exit R | Trader<sup>M</sup>. Any of the windows pictured in the launch bar above, can be opened from the file menu. They are:



## **Recent Orders**

The Recent Orders window displays information about working orders and completed orders (completed during the current trading day).

🚺 Rec	ent 🤇	Orders	Accounts	ALL	•	User	rs ALL	•	l.	€	8, 1	Т	- 💼 -		
Working Ord	ers (	7/7)	_							~~~	100				_
,	(	,		Buv/	Qty To			Price	Limit	Order $_{\nabla}$				Rithmic Platform	Elapsed
Ac	count	Sta	itus	Sell	Fill		Symbol	Туре	Price	Number	Exchange (	order Id	Application	Transit Time (µs)	Time (Sec)
× M Rithmi	c3	open		В	1	ESZ1		L	1132.75	6160047	711207877	55 F	Rithmic Trader	1584	4
🗙 M Rithmi		modified		S		ESZ1		L	1139.25	6160034	711207808		Rithmic Trader	964	
🗙 M Rithmi	c3	open		S		ESZ1		L	1139.50	6160033	7112078087	73 F	Rithmic Trader	955	2095
X M Rithmi		open		S		ESZ1		L		6160032	711207808		Rithmic Trader	1491	
🗙 M Rithmi		open		В	-	ESU1		L	1140.75		711207808	-	Rithmic Trader	1355	
X M Rithmi		open		В		YMU1		L		6160029	7356798426		Rithmic Trader	1187	
🔀 M Rithmi	0	open		В	2	YMU1		L	10857	6160028	7356798423	3 F	Rithmic Trader	1510	2109
Completed		17/17)	_		В	uy/ Qt	:y To		Price	e Avg Fill	Limit	Order	~	Rithmic Platform	Elapsed Tin
Completed		17/17)		Pomark		uy/ Qt		Sumbal							Elapsed Tim
Completed Account Rithmic3		17/17) Status		Remarks		uy/ Qt		Symbol	Price Type L		Price	Order Number 6160036	User Id	Rithmic Platform Transit Time (µs) 1178	Elapsed Tim (Sec) 2067.1166
Account Rithmic3	Orders (	17/17) Status		Remarks	s Se	uy/ Qt	Fill	Symbol		e Price	Price 0 1135.00	Number	UserId NewUser	Transit Time (µs)	(Sec)
Account Rithmic3 Rithmic3	Orders ( Filled	17/17) Status		Remarks	s Se B	uy/ Qt	Fill 1 ESZ1	Symbol		e Price 1135.0	Price 0 1135.00 0 1136.00	Number 6160036	User Id New User New User	Transit Time (µs) 1178	(Sec) 2067.1166
Account Rithmic3 Rithmic3 Rithmic3	Orders ( Filled Filled	17/17) Status		Remarks	s Si B B	uy/ Qt	Fill 1 ESZ1 1 ESZ1	Symbol	Type L L	e Price 1135.0 1136.0	Price 0 1135.00 0 1136.00 5 1135.75	Number 6160036 6160035	Vser Id New User New User New User	Transit Time (µs) 1178 1229	(Sec) 2067.1166 94.8493
Account Rithmic3 Rithmic3 Rithmic3 Rithmic2	Orders ( Filled Filled Filled	17/17) Status		Remarks	s Si B B B	uy/ Qt	Fill 1 ESZ1 1 ESZ1 1 ESZ1	Symbol	Type L L	e Price 1135.0 1136.0 1135.7	Price 0 1135.00 0 1136.00 5 1135.75 2 10862	Number 6160036 6160035 6160031	<ul> <li>User Id</li> <li>New User</li> <li>New User</li> <li>New User</li> <li>New User</li> <li>New User</li> </ul>	Transit Time (μs) 1178 1229 1428	(Sec) 2067.1166 94.8493 2067.7209
Account Rithmic3 Rithmic3 Rithmic3 Rithmic2 Rithmic2	Orders ( Filled Filled Filled Filled	17/17) Status		Remarks	s Si B B B S	uy/ Qt	Fill 1 ESZ1 1 ESZ1 1 ESZ1 2 YMU1	Symbol	Type L L L	e Price 1135.0 1136.0 1135.7 1086	Price 0 1135.00 0 1136.00 5 1135.75 2 10862 4 10864	Number 6160036 6160031 6160027	User Id New User New User New User New User New User New User	Transit Time (μs) 1178 1229 1428 1228	(Sec) 2067.1166 94.8493 2067.7209 0.0183
Account Rithmic3 Rithmic3 Rithmic3 Rithmic2	Orders ( Filled Filled Filled Filled Filled	17/17) Status		Remarks	s Si B B S S S	uy/ Qt	Fill 1 ESZ1 1 ESZ1 1 ESZ1 2 YMU1 2 YMU1	Symbol	Type L L L L L	e Price 1135.0 1136.0 1135.7 1086 1086	Price 0 1135.00 0 1136.00 5 1135.75 2 10862 4 10864 1 10861	Number 6160036 6160031 6160027 6160026	User Id New User New User New User New User New User New User New User New User	Transit Time (µs) 1178 1229 1428 1228 1056	(Sec) 2067.1166 94.8493 2067.7209 0.0183 1795.5059
Account Rithmic3 Rithmic3 Rithmic3 Rithmic2 Rithmic2 Rithmic2 Rithmic2	Orders ( Filled Filled Filled Filled Filled	17/17) Status		Remarks	s Se B B S S B	uy/ Qt	Fill 1 ESZ1 1 ESZ1 1 ESZ1 2 YMU1 2 YMU1 2 YMU1	Symbol	Type L L L L L L	Price 1135.0 1136.0 1135.7 1086 1086 1086	Price 0 1135.00 0 1136.00 5 1135.75 2 10862 4 10864 1 10861 3	Number 6160036 6160031 6160027 6160026 6160025	User Id New User New User New User New User New User New User New User New User New User New User	Transit Time (μs) 1178 1229 1428 1228 1056 1487	(Sec) 2067.1166 94.8493 2067.7209 0.0183 1795.5059 579.6818
Account Rithmic3 Rithmic3 Rithmic3 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2	Orders ( Filled Filled Filled Filled Filled Filled Filled Filled Filled	17/17) Status		Remarks	s Si B B S S B B S S S	uy/ Qt	Fill           1         ESZ1           1         ESZ1           1         ESZ1           2         YMU1	Symbol	Type L L L L M M M	e Price 1135.0 1136.0 1135.7 1086 1086 1086 1086 1086 1086	Price 0 1135.00 0 1136.00 5 1135.75 2 10862 4 10864 1 10861 3 2 2	Number 6160036 6160037 6160027 6160027 6160025 6160024	User Id New User New User	Transit Time (μs) 1178 1229 1428 1228 1056 1487 1113	(Sec) 2067.1166 94.8493 2067.7209 0.0183 1795.5059 579.6818 0.0169 0.0173 0.0176
Account Rithmic3 Rithmic3 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2	Orders ( Filled Filled Filled Filled Filled Filled Filled Filled Filled	17/17) Status		Remarks	s Si B B S S S B S S S S S S S	uy/ Qt	Fill           1         ESZ1           1         ESZ1           1         ESZ1           2         YMU1           5         ESU1	Symbol	Type L L L L M M M M	e Price 1135.0 1136.0 1135.7 1086 1086 1086 1086 1086 1086 1086 1141.7	Price 0 1135.00 0 1136.00 5 1135.75 2 10862 4 10864 1 10861 3 2 2 5	Number 6160036 6160031 6160027 6160026 6160025 6160022 6160022 6160022	User Id New User New User	Transit Time (µs) 1178 1229 1428 1428 1056 1487 1113 872 1147 1194	(Sec) 2067.1166 94.8493 2067.7209 0.0183 1795.5059 579.6818 0.0169 0.0173 0.0176 0.0141
Account Rithmic3 Rithmic3 Rithmic3 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2 Rithmic2	Orders ( Filled Filled Filled Filled Filled Filled Filled Filled Filled	17/17) Status		Remarks	s Si B B S S B B S S S	uy/ Qt	Fill           1         ESZ1           1         ESZ1           1         ESZ1           2         YMU1	Symbol	Type L L L L M M M	e Price 1135.0 1136.0 1135.7 1086 1086 1086 1086 1086 1086	Price 0 1135.00 0 1136.00 5 1135.75 2 10862 4 10864 1 10864 1 10861 3 2 5 0	Number 6160036 6160031 6160027 6160026 6160029 6160023 6160022	User Id New User New User	Transit Time (µs) 1178 1229 1428 1228 1056 1487 1113 872 1147	(Sec) 2067.1166 94.8493 2067.7209 0.0183 1795.5059 579.6818 0.0169 0.0173 0.0176

#### Note: A trading day may begin on a prior calendar day.

# Note: The start time and end time of a trading day for one product group may not be the same as the start time and end time of a trading day for other product groups.

The upper pane shows working orders (open orders). Orders that are working are live and in the market, though depending upon the price type of an order, an order may be live and acknowledged by an exchange, but may not yet be in an instrument's order book (some stop orders). Additionally, some open orders may not yet have even been sent to an exchange (some stop orders, if touched orders, etc.). See **Appendix B** for a description of price types.

The lower pane shows orders that have been completed. Orders that are completed are orders whose quantity to fill has been satisfied by a combination of quantity filled and quantity cancelled, i.e. orders that no longer have any quantity that may yet be filled.



If you prefer to have the Recent Orders window display its data without upper and lower panes, click on the III and the data will be organized into a working orders tab and a completed orders tab as in the picture below.

Recent	Orders	Accoun	ts ALL	•	Users ALL		l.	🍫 🗉	8,		r) - 🗓	a, 🖌 🗮	
Working (11/	11)	Cor	mpleted (12	2/12)									
Account		Status	Buy/ Sell	Qty To Fill	Max Show Qty		Price Type	Limit Price	Qty Filled	Qty Working	Order ⊽ Number	Original Sequence Number	: (
M Rithmic3	open		В	1	ESZ1	1	L	1135.00	0	1	6160036	E17AC	1
M Rithmic3	open		В	1	ESZ1	I	L	1136.00	0	1	6160035	E17AB	
M Rithmic3	open		S	1	ESZ1	I	L	1139.50	0	1	6160034	E17AA	
M Rithmic3	open		S	1	ESZ1	1	L	1139.50	0	1	6160033	E17A9	1
M Rithmic3	open		S	1	ESZ1	1	L	1139.50	0	1	6160032	E17A8	1
M Rithmic3	open		В	1	ESZ1	I	L	1135.75	0	1	6160031	E17A7	I
M Rithmic3	open		В	5	ESU1	I	L	1140.75	0	5	6160030	E17A6	E
M Rithmic2	open		В	2	YMU1	l I	L	10853	0	2	6160029	E17A5	E
M Rithmic2	open		В	2	YMU1	l I	L	10857	0	2	6160028	E17A4	E
M Rithmic2	open		S	2	YMU1	l I	L	10864	0	2	6160026	E17A2	E
M Rithmic2	open		В	2	YMU1		L	10861	0	2	6160025	E17A1	I

#### **Rithmic Platform Transit Time and Elapsed Time**

Both panes of a Recent Orders window show the time taken for an order to be processed R | Trade Execution Platform<sup>TM</sup> (the Rithmic Platform Transit Time) and the time taken for an order to be completed (Elapsed Time). The Rithmic Platform Transit Time is calculated as the time just after R | Trade Execution Platform<sup>TM</sup> sent an order to the exchange minus the time just after R | Trade Execution Platform<sup>TM</sup> received that order and assigned it an order number. The elapsed time of an order is calculated as the time when R | Trade Execution Platform<sup>TM</sup> marked an order as complete minus the time just after R | Trade Execution Platform<sup>TM</sup> received that order secution Platform<sup>TM</sup> received that order and assigned it an order number. The range of these times depends upon a number of factors including market activity and the rate at which an exchange can fill an order, the price type of an order, whether or not an order is multi-legged, whether or not an order is directed to be held until some event happens (market open, for example) or until a particular time, concurrent order placement activity, etc. Keep in mind that the accuracy of these times is subject to the synchronization of the clocks of the machines on which R | Trade Execution Platform<sup>TM</sup> runs.

#### Modifying an Order through the Recent Orders Window

To modify a working order through the Recent Orders window, click on the  $\square$  associated with the order in the working orders pane that you wish to modify or right click on that order and select Modify Order from the small menu that pops up. A modify orders screen will appear through which you may change the quantity and/or the price of the order.



Modify Order 6159957		×
Account Rithmic3 (Rithmic Account 3, Prospects) Buy/Sell Qty Symbol Sell 7 CZFZ1	n ice Type Limit Price nit 123'050 拿	5 Year US Treasury Note Futures
Close when done	· ·	Order 6159957: open Modify Order

#### **Cancelling an Order through the Recent Orders Window**

To cancel (or pull) a working order through the Recent Orders window click on the  $\bowtie$ , which by default is located in the leftmost column of the order or right click on that order and select Cancel Order from the small menu that pops up. Depending upon your preference settings the click itself or the selection from the pop up window will cause a cancellation request to be submitted to the exchange or they will cause a cancellation confirmation window to appear.

#### **Viewing Order Details**

Order details can be viewed by double clicking on an order in either the upper or lower pane. A new window will open showing the history and details of the order's creation, its acknowledgment by the exchange, any modifications, fills and/or cancellations, rejects or failures.

Date/Time (E	⊽ (TO	Status	Fill Price	Qty Filled	Qty Cancelled	Qty Open	Total Qty Filled	Total Qty To Fill	Max Show Qty	UserId
2011-04-12 14:21:	· · ·						7	7		New User
2011-04-12 14:21:	54.466286	fill	116'162	7						New User
2011-04-12 14:17:	53.601611	open				7		7		New User
2011-04-12 14:17:	53.590975	order sent to exch				7		7		New User
2011-04-12 14:17:	53.590809	order received by exch gateway				7		7		New User
2011-04-12 14:17:	53.590125	openpending				7		7		New User
2011-04-12 14:17:	53.589582	Order received from client						7		New User
Exchange Symbol				-	imit Price 11 top Price	6'162				
Symbol Price Type	ZFM1 Limit	033362	1	S Avg	top Price Fill Price 11		0			
Symbol	ZFM1 Limit 20110412(	033362	L	S Avg iquidity I	top Price Fill Price 11 ndicator		0			
Symbol Price Type Exchange Order Id Fill Id	ZFM1 Limit 20110412(	033362	L	S Avg iquidity I Executin	top Price Fill Price 11 ndicator g Venue		0			
Symbol Price Type Exchange Order Id Fill Id Expiry Date	ZFM1 Limit 201104120 Jun-11	033362	L	S Avg iquidity I Executin Excha	top Price Fill Price 11 ndicator g Venue nge Fee	6.507812				
Symbol Price Type Exchange Order Id Fill Id Expiry Date Account	ZFM1 Limit 20110412(			S Avg iquidity I Executin Excha Cre	top Price Fill Price 11 ndicator g Venue nge Fee ate Time 20	6.507812				
Symbol Price Type Exchange Order Id Fill Id Expiry Date Account IB	ZFM1 Limit 201104120 Jun-11 Rithmic3			S Avg iquidity I Executin Excha Cre thange Ti	top Price Fill Price 11 ndicator g Venue nge Fee vate Time 20 mestamp	6.5078120 )11-04-12				
Symbol Price Type Exchange Order Id Fill Id Expiry Date Account IB	ZFM1 Limit 201104120 Jun-11 Rithmic3 Rithmic-IB Rithmic-F0			S Avg iquidity I Executin Excha Cre thange Ti	top Price Fill Price 11 ndicator g Venue nge Fee ate Time 20	6.5078120 )11-04-12				

#### Viewing Market Data Trade History around the Time of an Order

You may view the trades that occurred in the market around the time of any of your recent orders (orders placed within the current trading session) by right clicking on an order and selecting Market Data Trade History.

🛃 Recent Order:	5					Ξ						-						x
👔 Rece	<b>nt</b> Orders	Accou	nts ALL	•	Users A	L	•	le	) <b>%</b>	• • 🛔	B 1	T	) - 💼					
🝸 Working Orde	rs (4/4)																	
Acco	Order o ount Number	7	Status	Buy/ Sell	Max Show Qty	Qty Working	3	Symbol		Price Type	Limit Price	Exchar	nge Order l	Rithmic Platforr d Transit Time (µs				
× M 605024	5765547	open		S		1	ESZ1			L	1140.25	641206	997513	9	19 100			
× M 605024	5765546	open		S		1	ESZ1			L	1140.25	641206	997406	5	79 100			
× M 605024	5765544	open		S		1	ESZ1			L	1139.75	641206	997178	21	14 100			
• 🗙 M 605024	5765540	open		S		1	ESZ1			L	1139.75	641206	996955	13	00 101			
Completed 0	rders (10/10)																	(
Account	Order ⊤ Number	Status		Remark	s	Buy/ Sell	Qty Filled		Symbol			Limit Price	Avg Fill Price	Exchange Order	Rithmic Plat d Transit Time		Elapsed Time (Sec)	)
605024	5765535 Fille	d				S		ESZ1				1138 50		641206995796		1275	68.117726	
605024	5765511 Fille	d				S		ESZ1	Filt	er Ord	ers		Ctrl+F	206990909		1674	14.639678	3
605024		celled				S		ESU1	Or	der His	tory		Ctrl+H	206863683		1865	5.515308	
605024		celled				S		ESU1						206863089		1190	6.835963	
605024		celled				S		ESU1	Ma	rket Da	ata Trade	History	Ctrl+D	206850181		1271	8.813228	
605024		celled				S		ESZ1	Vie	w Posi	tions		Ctrl+P	206816793			11.670408	
605024	5765015 Fille					S		ESZ1	Tes	dan Da	shboard		Ctrl+I	206816029		1483	1.598005	
Order  RMS	⊖ Price ⊖ Hist				🐼 Tradir	a Platfor		Rithmi	ITa	der Da	shboard		Ctri+1	20/044002	Tue, Sep 06, 2	2011 09	:39:33 am	
0 1010	0				- Tuda	g · latio			Ord	der Boo	ok		Ctrl+B					_
									0	ote Bo			Ctrl+O					

The Market Data Trade History window will pop up displaying trades that were reported through the exchange's market data channels for the 300 seconds around the latest update time of your order. Some exchanges provide enough information on a market data trade report so that R | Trade Execution Platform<sup>™</sup> can identify precisely which market data trade report corresponds to your order. If such information is not available the screen will show all market data trades that occurred during the same second as yours in orange. Trades occurring after yours will be shown with a green background and trades occurring before yours will be show with a yellow background.

🂊 Market Data	Trade	History	l.	🎭 👶 值 🖥	i - 💼	<b>.</b>	
Date/Time (EDT)	Trade Price	Trade Size	Volume	Fill Id	Net Change	% Change	Trade Conditio
2011-09-06 09:38:29.850830	1137.50	1	11401		-26.00	-2.23	
011-09-06 09:38:29.707609	1137.25	1	11400		-26.25	-2.26	
011-09-06 09:38:29.707609	1137.25	1	11399		-26.25	-2.26	
011-09-06 09:38:29.707609	1137.25	1	11398		-26.25	-2.26	
011-09-06 09:38:29.707609	1137.25	1	11397		-26.25	-2.26	
011-09-06 09:38:29.707609	1137.25	1	11396		-26.25	-2.26	
011-09-06 09:38:26.190248	1137.00	1	11395		-26.50	-2.28	
011-09-06 09:37:41.830927	1136.00	4	11394		-27.50	-2.36	
011-09-06 09:37:34.130704	1135.75	6	11390		-27.75	-2.39	
011-09-06 09:37:34.130704	1135.75	1	11384		-27.75	-2.39	
011-09-06 09:37:33.508990	1135.50	1	11383		-28.00	-2.41	
011-09-06 09:37:18.107244	1135.00	7	11382		-28.50	-2.45	
011-09-06 09:37:18.107244	1135.00	1	11375		-28.50	-2.45	
011-09-06 09:37:18.107244	1135.00	1	11374		-28.50	-2.45	
011-09-06 09:37:18.107244	1135.00	1	11373		-28.50	-2.45	
0044 00 04 00.27.40 407240	4495.00	40	44070		70 EN	0 AE	
etch data for ESZ1.CME		durir	ng 300	seconds around 2011-09	-06 09:37:34	- 9	





# **Future Options**

The Future Options window displays real time market data for all options of a particular product group with a specific expiration date.

	- 01	ure	0000	ns	Ŀ	€.	🍰 🛙	1 T	- <mark>a,</mark> -	Show Or	<u>der Defaults</u>	
chan			oduct		10.10			0.01		11-1-1-1		
YMEX		- L	D - NYME	X Ligh	t Sweet Cru	de Oil O 👻	Underlyi	ng CLQ1.I	NYMEX	Light	sweet Crud	e Oil, Jul-1
id Siz	e B	id Price	Ask Siz	ze i	Ask Price /	Market Mod	e					
6		99.86	13		99.87	Open						
6-Jun-	.11 1	5-Jul-11	17-Aug-1		5-Sep-11 1	7-Oct-11	15-Nov-11	15-Dec-11	17-Jan-12		15-Mar-12	17-Apr 1
			Ca							Puts		
Bid	l Qty	Bid		sk	Ask Qty	Last	Strike	Bid Qty	Bid	Ask	Ask Qty	Last
	26		53	1.65	15	1.65						
	22	1.		1.79	49	1.79						
	21	1. 1.'		1.94 2.10	42	1.94		1	6.13 5.31			
	20 19	1.		2.10	4	2.10 2.29		78 20	5.31			
	17	2.		2.47	17 13	2.29		20				
	16	2.		2.67	26	2.47		12				
	16	2.		2.85	3	2.85		30	4.15			
	13	2.		3.00	8	3.00		11	4.46			
	13	3.		3.20	3	3.20		12				
	10	3.		3.44	10	3.44		10	3.93			
	10	3.		3.70	10	3.70		11				
	10	3.	90	3.97	10	3.96		12				
	10	4.3	21	4.24	10	4.23	98.50	13				
	10	4.	50	4.54	10	4.53	98.00	22	3.05			
							97.50	1	2.84			
							97.00	18	2.63			
							96 <b>.</b> 50	19	2.45			
							96.00	1	2.30			
							95.50	20				
							95.00	23		2.04		
							94.50	20	1.84	1.91	26	1.85

When an expiration date is selected, the Future Options window shows prices for call options on the left and prices for put options on the right. If the underlying contract can be determined, its symbol, exchange, description and pricing information is displayed at the top. To show which options are in the money and which are out of the money, an orange line corresponding to the underlying's last traded price is displayed in the Strike column. In the money options are displayed against a black background.



#### **Placing Orders from the Future Options Window**

You may place orders for a specific option through the Future Options window by clicking on a "Bid" or "Ask" column of the row that corresponds to the strike price of the option you wish to buy or sell. A click on a "Bid" column on the left side of the window brings up a Place Order window populated to sell a call option with other fields containing the same contents as the Order Parameters of the Future Options window. A click on the "Ask" column of the same row on the left side of the screen brings up a Place Order window similarly populated but set to buy the call option.

😥 Place Order					
Account Rithmic 2 (Rithmic A	ccount 2, Prospects)	Exchange NYMEX	Duration DAY		NYMEX Light Sweet Crude Oil Options
Buy/Sell Sell Showmore options	Qty Symbol 2 C LOV1 C8	800	Price Type Limit	Limit Price	
<table-cell> Close when done</table-cell>					Place Order

Though the Place Order window pops up pre-populated, you may change the contents of the fields that have an associated drop down box. Click the "Place Order" button to submit the order. Click the "Cancel" button to close the Place Order window without placing the order.





## **Options Board**

The Options Board window displays real time market data for all options of an underlying symbol listed at a specified options exchange.

a Rithmic	01 Test Sim :	Options Boa	ard					_		
<mark></mark> 9	ptions	Board	læ	<b>%</b> -	8 1		- <mark>a,</mark> -	Show Ord	<u>ier Defaults</u>	
Underlyin	g AAPL.BA	TS	APPLE IN	іс сом яті	<b>‹</b>					
			I	Last Trade	Last Trade	Net		Trade		
Bid Size			Ask Size	Price	Size	Change	% Change	Volume	Market Mode	
200		331.33							Open	
Option Exc	thange CBOE	•								
			-							
27-May-11	18-Jun-11		0-Aug-11   1	17-Sep-11	22-Oct-11	21-Jan-12	19-Jan-13			
		Calls						Puts		_
Bid Qt		Ask	Ask Qty	Last	Strike	Bid Qty	Bid	Ask	Ask Qty	Last
100			10000		390.00	10000	0.80	1.20	10000	
100			10000		385.00	10000	0.80	1.20	10000	
100			10000		380.00	10000	0.80	1.20	10000	
100			10000		375.00	10000	0.80	1.20	10000	
100 100			10000 10000		370.00 365.00	10000 10000	0.80	1.20 1.20	10000 10000	
100			10000		360.00	10000	0.80	1.20	10000	
100			10000		355.00	10000	0.80	1.20	10000	
100			10000		350.00	10000	0.80	1.20	10000	
100			10000		345.00	10000	0.80	1.20	10000	
100			10000		340.00	10000	0.80	1.20	10000	
100			10000		335.00	10000	0.80	1.20	10000	1.20
100			10000		330.00	10000	0.80	1.20	10000	
100			10000		325.00	10000	0.80	1.20	10000	
100			10000		320.00	10000	0.80	1.20	10000	
50			10000			10000	0.80	1.20	10000	
100			10000		310.00	10000	0.80	1.20	10000	
100			10000		305.00	10000	0.80	1.20	10000	
100	00 0.80	1.20	10000		300.00	10000	0.80	1.20	10000	
100	00 0.80		10000		295.00	10000	0.80	1.20	10000	
100	00 0.80	1.20	10000		290.00	10000	0.80	1.20	10000	
100	00 0.80	1.20	10000		285.00	10000	0.80	1.20	10000	
100		1 20	10000		280.00	10000	0.8.0	1 20	10000	
Order	😑 RMS 🛛 🧕	)Price 😑 😑	History	Oper	1			Tue, Jun	14, 2011 11:24	4:24 am ED

The Options Board window shows prices for call options on the left and prices for put options on the right. Though originally designed to show equity options, you may use this window to view and trade future options as well (provided that R | Trade Execution Platform<sup>TM</sup> to which your R | Trader<sup>TM</sup> is connected can associate future options with their underlying future contract).



🎲 Opt	ions	Board	Ŀ	‰ -	3	Т	- <mark>a,</mark> -	<u>Show Orc</u>	<u>ier Defaults</u>	
Underlying E	SM1.CME		E-Mini S&P	500, Jun	-11					
				ist Trade L		Net		Trade		
		sk Price	Ask Size 5 1	Price 270.75	Size	Change -0.75	% Change -0.06	Volume 139868	Market Mode No Cancel	
ption Exchan	ge CME	•								
7-Jun-11										
		Calls						Puts		
Bid Qty	Bid	Ask	Ask Qty	Last 0.05	Strike 1370.00	Bid Qty	Bid	Ask	Ask Qty	Last
		0.05	8	0.05	1365.00					
		0.05	2		1360.00					
		0.10	25		1355.00					
1	0.05			0.05	1350.00					
		0.40	40	0.05	1345.00					
		0.10	10 213	0.15	1340.00 1335.00					
2	0.10	0.15	213	0.15	1330.00					
316	0.15	0.20	179	0.15	1325.00					
186	0.15	0.25	113	0.25	1320.00	24	45.75			47.00
200	0.35	0.40	77	0.40	1315.00	2	38.75			
101	0.55	0.60	88	0.55	1310.00			38.50	1	
1	1.00	1.10	74	0.95	1305.00					
126	1.50	1.55	177	1.50	1300.00	8	25.75	26.75	387	26.50
78 92	2.25 3.45	2.60 3.65	83 171	2.55 3.60	1295.00 1290.00	3	24.00 18.50	23.50	1	24.00 18.50
4	5.25	5.75	195	5.25	1285.00	84	14.75	16.00	12	14.75
58	7.25	7.50	171	7.25	1280.00	48	12.50	13.00	147	12.25
159	9.50	10.00	159	10.25	1275.00	159	10.00	10.50	156	10.00
153	12.50	13.00	159	13.00	1270.00	171	8.00	8.50	171	8.25
147	15.75	17.25	222	17.00	1265.00	304	6.25	6.75	189	6.25
18	19.50	20.00	10	19.75 48.00	1260.00 1255.00	108	5.00	5.50 4.20	207	5.00
				25.00	1255.00	66 159	4.00 3.20	3.25	66 47	4.15
				25.00	1245.00	168	2.45	2.60	71	2.55
					1240.00	99	2.05	2.10	92	2.15
					1235.00	378	1.60	1.75	48	1.70
					1230.00	657	1.40	1.45	48	1.50
					1225.00	45	1.10	1.25	45	1.15
					1220.00	45	0.95	1.00	25	1.00
					1215.00 1210.00	65 380	0.90	1.00 0.75	45 45	0.90
					1205.00	90	0.60	0.75	90	0.75
					1200.00	45	0.50	0.65	68	0.55
					1195.00	90	0.45	0.55	180	0.50



#### **Placing Orders from the Options Board Window**

You may place orders for a specific option through the Options Board window by clicking on a "Bid" or "Ask" column of the row that corresponds to the strike price of the option you wish to buy or sell. A click on a "Bid" column on the left side of the window brings up a Place Order window populated to sell a call option with other fields containing the same contents as the Order Parameters of the Options Board window. A click on the "Ask" column of the same row on the left side of the screen brings up a Place Order window similarly populated but set to buy the call option.

🧭 Place Order			×
Account Exchan	ge Duration		CME End of Month Options on E Mini
Rithmic3 (Rithmic Account 3, Prospects) CME	DAY		S&P 500 Week 4
Buy/Sell Qty Symbol	Price Type	Limit Price	
Sell 5 2 EW4U1 C1200	Limit	8.25 ¢	
Close when done			Place Order

Though the Place Order window pops up pre-populated, you may change the contents of the fields that have an associated drop down box. Click the "Place Order" button to submit the order. Click the "Close" button to close the Place Order window without placing the order.





## **Order Book**

Use the Order Book window to view real time market depth and to place and manage orders for a particular instrument.

😼 Rithmic 01 Te	st Sim : Order Bo	ok - ZNZ1.CBOT	
Orge	e <b>r</b> Book	le 🗞 ·	- 🍰 🛍 🖬 - 💼 -
ZNZ1.CB	от		+ x
10 Year US Tr Futures	easury Note	Account	Qty (Default is 0) 10 20 50 Set
Position	Total P&L / (CUR)	Avg Open Fill Price	Account 1 2 5 Def Balance Clear 0 1
Show Bracket and	1 OCO Entry Ord	er Defaults	
Profit/Loss	Stops If Touche	Limit d Orders Bid Siz	36 Trade ize S +0'010 T Ask Size Volume
			122'085 122'080 122'075 122'070 122'065 122'060 122'055 122'050 122'050 122'045 23 122'045 23 122'040 17 122'035 3 122'030
		1	5 122'025 7 122'020 14 122'015 12 122'010
			122'005 122'000 121'315 121'310 121'305 131'200
Reverse Pos	Buy Market	Cancel All	Sell Market Cncl All & Fitn
😑 Order 🛛 😑 R	MS 😑 Price	Open	Tue, Jun 14, 2011 03:00:35 pm EDT

#### **Order Book Basics**

Depending upon which columns you select to be displayed, an order book can show you an instrument's last trade price, its quantity available to be bought or sold at various prices and

## **R | TRADER TRADER'S GUIDE**



the number of buy and sell orders at each price. Additionally you may view an account's position, its open orders and its p&l for a particular instrument.

👸 Rithmic 01 T	est Sim : Orde	er Book - YMU1.CE	BOT					_ 0	X
🥬 Ord	<b>er</b> Book	l. 🤤 😵	s - 💈	3	T	- <mark>a,</mark>	Ŧ		
YMU1.0	свот								+ x
					Qty (Defa	ult is 5)			
mini-sized Do	w Futures	(\$5) Rithmic3 (Rit	hmic Acc	ount 3,		0 50	Set		
	Open P&L	Avg Open Fill		Account		2 5	Def		
Position	(USD)	Price		Balance	Clear	5			
-15	200.00	12628.6667	6232	79.57	Ciear		-		
Show Bracket ar	nd OCO Entry								_
Profit/Loss	Stops If Top	Limit uched Orders C	Bid ount Bid	1 5170 5	410 +2	T Ask Siz	Ask e Count	Trade Volume	
-590.00	50005 11100	anca oracis c		15/20 5	12634		5 4	Votume	
-515.00					12633	1	9 5	3	
-440.00					12632	1	5 5	1	
-365.00		s25			12631	5	2 4	34	
-290.00					12630	2		19	
-215.00					12629	2	4 17	5	
-140.00					12628	2	9 3	10	
-65.00					12627		1 1	13	
10.00					12626		1 1	9	
85.00					12625			15	
160.00					12624			4	
235.00					12623				
310.00					12622		_	2	
385.00					12621			2	
460.00					12620				
535.00				1	12619 12618			1 7	
610.00 685.00				1	12618			2	
760.00				2	12617			2	
835.00		b5	1	5	12615				
910.00			1	1	12614				
985.00			1	4	12613				
1060.00			2	5	12612				
1135.00					12611				
Reverse Pos	Buy Mar	ket Cance	l All	Sell M	arket	Cncl All &	Fltn		
😑 Order 🛛 😑	RMS 😑 Prio	ce Open				Sun, Ju	ul 10, 201	1 07:24:56	5 pm EDT

The Order Book above shows pricing information for YMU1 at the CBOT and position, open orders and p&I on YMU1 for account Rithmic3.



#### Setting and Selecting an Instrument to View and/or Trade

When an Order Book window is launched, it displays an empty box labeled Symbol.Exchange. Type the symbol that corresponds to the instrument whose order book you would like to view in that box followed by the symbol-exchange separator (a period "." by default) then followed by the id of the exchange or other trading venue on which that instrument trades (refer to **Appendix C** for a list of exchange and other trading venue ids). Press enter or tab or click away from the box and, if the symbolexchange pair you entered is valid, its description and its order book will be displayed in the Order Book window.

You may change the instrument whose order book you wish to view by clicking on the description (the symbol-exchange pair of the instrument whose order book is currently displayed will be shown) and then by typing over the current symbol-exchange pair and pressing enter or tab.

If you do not know the symbol that corresponds to the instrument whose order book information you wish to view, double click on the symbol-exchange pair (or in the empty box labeled Symbol.Exchange, as the case may be) and an Add Symbol window will pop up. Refer to **Appendix D** for information on how to select a symbol through an Add Symbol window.

#### Setting and Selecting an Account

When an Order Book window is launched, it displays an empty drop down box labeled Account. Select the account from the drop down box whose orders and p&L information you wish to view for the instrument identified by the symbol-exchange pair of the Order Book window. The description of the selected account will be displayed in the Order Book window.

You may change the Account whose orders you wish to view by clicking on the account's description and selecting a different account.

**Note:** The account drop down box will only show the accounts to which you have permission to view and/or trade.

#### Position

The column labeled "Position" at the top of the Order Book indicates the net open position of the instrument (YMU1) for the account (Rithmic3). A negative number indicates a short position.

#### P&L

The number to the right of the "Position" indicates the open p&l in the currency of the account (in this case USD). By clicking on the p&l you may toggle through several types of p&l to display – Total P&L in the currency of the account, in ticks or in price points, Open P&L in the currency of the account, in ticks or no p&l display.



#### **Average Open Fill Price**

The number to the right of the p&l is the average open fill price of the current open position, in this case, of YMU1 for Rithmic3. It is also highlighted in the price column by a colored bar, in this case blue. If the average open fill price is not a tradable price then it is highlighted in the price column at the first price at which a flattening of the position would yield a profit. For example, if the average open fill price for a long position were 829.125 of an instrument that trades in increments of 0.25, then the highlighted price would be 829.25.

#### **Account Balance**

Depending upon the type of risk management algorithm your FCM, Broker-Dealer or IB has chosen for your account, the balance of your account may be displayed in the middle of the top part of the Order Book, on the left of the number pad.

#### Quantity

Toward the right side of the top of the Order Book is a number pad that you may use to specify the default quantity to fill and a box that indicates the quantity to fill on the next order. You may specify a quantity in the box with the arrows directly or by clicking on a number in the number pad. Each click of a number in the number pad adds that number to the quantity in the box with the arrows. You may increase the quantity in the box by clicking on the up arrow and you may decrease the quantity in the box by clicking on the down arrow. To clear the quantity, click on the "Clear" button. To set the default quantity, click on the "Set Def" button.

When an order is placed through the Order Book, the quantity to fill on that order will be the quantity that is displayed in the box with the arrows at the time that the order is submitted. After an order is placed through the Order Book, the quantity in the box with the arrows is automatically reset to display the default quantity. For example, if the default quantity is 5, and the number in the box with the arrows is 7, and an order is placed through the Order Book, that order will have a quantity of 7 and the quantity displayed in the box with the arrows will then be reset to 5. The default quantity is displayed on the thin line that surrounds the number pad (just above the 10, 20 and 50 buttons).

#### **Bid and Offer Sizes and Counts**

The number of orders bid at a certain price is displayed in the column with the heading "Bid Count" on the row that displays that price. The quantity available to be bought at a certain price is displayed in the column whose heading is "Bid Size" on the row that displays that price. In the Order Book above, there is a quantity available to be bought of 381 spanning 23 orders at a bid price of 1266. Similarly, the number of orders offered at a certain price is displayed in the column with the heading "Ask Count" on the row that displays that price and the quantity available to be sold at a certain price is displayed in the column with the row that displays that price and the quantity available to be sold at a certain price is displayed in the column whose heading is "Ask Size" on the row that displays that price.

#### Last Trade Price and Net Change

The price at which an instrument has last traded is highlighted in the price column by a colored bar, in this case orange.



The net change of the instrument is displayed at the top of the price column.

#### **Trade Volume**

The Trade Volume column displays either the quantity traded at each price of the order book or the quantity traded at the best bid price and the best ask price since those prices became the best prices. You may toggle which quantities are displayed by clicking on the column heading.

#### Market Mode

The market mode (trading status) of an instrument is displayed in the middle of the bottom of an Order Book. Refer to **Appendix B** for more information about market modes.

#### **Centering the Price Rows**

By default, the rows that display prices in the Order Book are centered around the midpoint of the current best bid and best offer prices. As these prices change the Order Book will dynamically reposition the price rows accordingly, at an effective rate of about 1 row per second. For example, if the midpoint of an instrument's best bid and offer price suddenly drops by 5 ticks (5 rows), the Order Book will reposition the price rows by moving them up by 5 rows in about 5 seconds. While repositioning these rows, if the midpoint of the instrument's best bid and offer price suddenly rises by 10 ticks, the Order Book will switch the direction of its movement to reposition the rows accordingly. If you change the view of the price rows by scrolling, once you stop scrolling, the Order Book will begin to move the rows back to their default position. At any time you may cause the Order Book to display the price rows in their default position by double clicking on any row in the price column.

#### **Freezing the Movement of the Price Rows**

If the "Hide sizes and counts on mouse over" box is checked on the Windows tab of the General tab of the Preferences window, then, while your mouse is over any cell of a price row in an Order Book that permits you to place, modify or cancel an order, the sizes and counts will not be visible in that Order Book and the price rows of that Order Book will not move. As soon as your mouse is no longer over any such cell, the sizes and counts will become visible and the price rows will resume their movement.

Alternatively, if the "Hide sizes and counts on mouse over" box is checked you may freeze the movement of the price rows and hide the sizes and counts of an in focus Order Book by pressing and holding the Ctrl key. As soon as the Ctrl key is released, the sizes and counts will become visible and the price rows will resume their movement.

#### Viewing Multiple Order Books within a Single Order Book Window

You may view multiple order books within a single Order Book window by clicking on the "+" button at the top right. Each click of the "+" button opens an additional tab within the Order Book window and each tab may be configured to show prices for a different instrument as in the picture below. Click on the "x" button (next to the "+" button) to delete the current tab.



🥕 Ord	er B	ook	<u>l</u> . 9	<b>*</b>	🕹 í		<u> </u> _ [	a, 👻
ESU1.	СМЕ		AAPL.	BATS				+ x
						Qty (	Default is	100)
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15.00					332.	25		200
17.00					332.			100
19.00					332.			100
21.00					332.		100	
23.00					332.		200	400
25.00					332.			300
27.00					332.			300
29.00					332.		200	100
31.00					332.		200	200
33.00				100	332.			200
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37.00					332.			500
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41.00					332.			400
45.00					332.			400
47.00					332.			200
Reverse Pos	P	Jy Market	Care	el All	Coll A	larket	Card	All & Fltn

#### **Grid Lines**

You may apply, change or remove gridlines from an Order Book by clicking on the I icon at its top and selecting "Grid Lines...". You may move horizontal gridlines in an order book by clicking on a price row, holding down the Ctrl key and then pressing the up arrow or down arrow key.

#### **Tool Tips**

If you would like to view tool tips when your mouse hovers over cells of a row in an Order Book that permit you to place, modify or cancel orders, uncheck the "Disable tooltips" box in the General tab of the Preferences window.



### **Standard Open Order Indicators**

In the Order Book below, the column on the left shows the total profit or loss that the account would have for YMU1 if the current position were to be flattened at any particular price.

😼 Rithmic 01 T	est Sim : Orde	r Book - YMU1	.CBOT				x
🔊 Ord	<b>er</b> Book		<b>?</b>	<u>8</u> , 1	T	▼ <b>a</b> ,	-
YMU1.0	POT						
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mini cized D		¢5) Dithmic2 (	Dithmic Ac	count 2	Qty (Defa	10(t 15 5)	
mini-sized Do	ow rutures (			count 3,		.0 _0	Set
Position	Total P&L (USD)	Avg Open F Prie		Account Balance	1	2 5	Def
-5	660.00	1263		613.95	Clear	5	*
Show Bracket ar							
		Limit		811		Tra	de 🔄
Profit/Loss	Stops If Tou	iched Orders	Bid Size			Size Volu	ume
360.00 385.00				12630 12629			
410.00				12629		32	
435.00				12620		9	
460.00				12626		4	
485.00				12625		5	
510.00				12624		6	
► 535.00	📜 Ь	5		12623		4	
560.00				12622		27	
585.00				12621		11	
610.00 635.00				12620 12619		7	
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785.00			6	12613			
810.00		b5	11	12612			
835.00 860.00			5 14	12611 12610			
885.00			14	12610			
910.00			10	12608			
935.00			8	12607			
960.00				12606			
985.00				12605			
Reverse Pos	Buy Mari	ket Car	icel All	Sell Ma	irket	Cncl All 8	t Fltn
😑 Order 🛛 😑	RMS 😑 Pric	e Ope	n	Sun, Ju	l 10, 2011	08:20:01 p	om EDT

For example, if the current position were flattened at a price of 12608 then the account would have a profit of \$910.00 for YMU1. The **b5** indicates that one or more limit orders have been placed on this account and remain open to buy a total quantity of 5 at a price of 12612. The **s5** indicates that one or more stop orders have been placed on this account and remain open to

sell a total quantity of 5 with a stop price of 12615. The  $\mathbb{R}$  **b5** indicates that at least one if touched order has been placed on this account and remains open to buy a quantity of 5 with a trigger price of 12623.

A "b" before a number in the Stops, If Touched or Limit Orders column indicates a buy quantity. An "s" before a number in the Stops, If Touched or Limit Orders column indicates a sell quantity. The price on the row on which a "b" before a number or an "s" before a number resides indicates the price associated with that quantity to be filled. The type of price is indicated by the heading of the column in which the "b" before a number or the "s" before a

number resides and is also indicated by  $\bigcirc$  for stops and  $\boxed{\mathbb{R}}$  for if touched.

**Note:** The quantity preceded by a "b" or an "s" indicates the total quantity open at that price, across all orders (of the account) for the instrument.

**Note:** Unless the instrument to be traded when an if touched trigger condition is met is the same as the instrument associated with the trigger condition, an Order Book does not show the id (Symbol) of the instrument that will be traded - they need not be same instrument. Refer to **Appendix B** for details on if touched price types.

#### **Setting Order Defaults**

Click on **Order Defaults** and a window will pop up through which you may set the defaults for many of an order's parameters.

	ler Book	_ l <del> </del> &	> 🍪 🚺		a, 🔻
ESU1.	CME			Qty (Default is 3	+ <u>×</u>
E-Mini S&P 5	00	Rithmic1 (Rith	nmic Account 1,		50 Set
Position 0	Total P&L (USD)	Avg Open Fill Price	Available Margin 8512903.99	1 2 Clear 3	5 Def
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Profit/Loss	Stops If Tou	All Actions	If Touched Climit Market	Stop Stop Limit Market	Trailing Stops
 ▶		Duration DAY	Max Show Qty	÷	Sell Stops Training
_			1316.5		
-			1316.0	0	
				75 60	

www.rithmic.com



#### **All Actions**

Check the Confirm box in the All Actions section if you would like an order ticket to be displayed prior to placing, modifying or cancelling an order.

#### If Touched

If you would like an if touched order to be a market order by default, select Market in the If Touched section. If you would like an if touched order to be a limit order by default, select Limit in the If Touched section.

#### Stop

If you would like a stop order to be a market order by default, select Market in the Stop section. If you would like a stop order to be a limit order by default, select Limit in the Stop section.

#### **Trailing Stops**

If you would like a buy stop order to trail a price by default, check the box labeled "Buy Stops Trail By", select a price type from the drop down box in the column labeled "Price Field" and set the number of ticks to trail by in the box in the column labeled Ticks. Similarly, if you would like a sell stop order to trail a price by default, check the box labeled "Sell Stops Trail By", select a price type from the drop down box in the column labeled "Price Field" and set the number of ticks to trail by in the box in the column labeled "Price Field" and set the number of ticks to trail by in the box in the column labeled Ticks.

#### Duration

Set the default duration of an order (time in force) from the Duration drop down box. Refer to **Appendix B** for details.

#### **Max Show Quantity**

If you would like your orders to indicate a maximum quantity to show (an iceberg quantity) by default click the Use box in the Max Show Qty section and specify a maximum quantity to show in the box next to the Use box.

#### **Configuring the Trade Buttons**

#### **Rearranging the Left-Right Order of the Trade Buttons**

Right Click on any column of a price row of an order book and a menu will pop up from which you can select "Configure Trade Buttons". The trade buttons are the big buttons at the bottom of an order book that are used to place market orders, reverse positions and cancel or flatten positions.



X Rithmic 01 Test Sim : Order Book - SPU1.CME **Order** Book SPU1.CME + X Qty (Default is 12) S&P 500 Rithmic1 (Rithmic Account 1, 10 20 50 Set Def Total P&L Avg Open Fill Available 1 2 5 Position (USD) Price Margin Clear 12 \* 8512903.99 0 Show Bracket and OCO Entry Order Defaults Limit Trade Profit/Loss Stops If Touched Orders Bid Size S T Ask Size Volume 1187.80 1187.70 1187 Search and Add Contract... Ctrl+F 1187 1187 Full Screen F11 1187 1187 Recent Orders Ctrl+O 1187 Ctrl+P View Positions 1187 Trader Dashboard Ctrl+I 1186 1186 Ouote Board Ctrl+Q 1186 1186 Time Chart ۲ 1186 Configure Trade Buttons ۲ 1186 1186 Cancel All F12 1186 Cancel All & Flatten F2 1186 1186 Reverse Position Shift + F2 1185 F9 Buy Market 1185 1185 Sell Market F6 1185 1185 Join the Bid NumpadPlus 1185 Join the Ask NumpadMinus 1185 Join both the Bid & Ask Multiply **Reverse Pos Buy Market** Cancel All Sell F8 Buy at Ask 😑 Order 😑 RMS 😑 Price 😑 History Open Sun, A Sell at Bid F3

Another menu will then pop up from which you may choose to rearrange the left to right order of the trade buttons and from which you may disable any or all of the trade buttons.



010	<b>ler</b> Book	le &	- 🍰 🛍	<u>r</u> - 💼 -		
SPU1. S&P 500 Position 0	Total P&L (USD)			+ x ty (Default is 12) 10 20 50 Set 1 2 5 Def Clear 12 ↓		
	nd OCO Entry (	<u>Irder Defaults</u> Limit ched Orders Bid S	Size S 1187.90 1187.80 1187.70 1187.60 1187.60 1187.50	T Ask Size Volume		
-			118; 118; 118;	Search and Add Contract.		
-			118) 118)	Full Screen	F11	
			118	Recent Orders	Ctrl+O	
-			118) 118)	View Positions Trader Dashboard	Ctrl+P Ctrl+I	
_			118(			
			118) 118(	Quote Board Time Chart	Ctrl+Q	
-			118			_
			118	Configure Trade Buttons	•	Rearrange
			118) 118)	Cancel All Cancel All & Flatten	F12 F2	Disable Cancel All
			118!	Reverse Position	FZ Shift + F2	Disable Cancel All & Fltn Disable Reverse Position
			118! 118!	Buy Market	F9	
			118!	Sell Market	F9 F6	Disable Buy Market Disable Sell Market
			118! 118!		mpadPlus	Disable Sell Walket
			118! 118!		padMinus	
Doutores De	Buy Mark	at Constant		Join both the Bid & Ask	Multiply	
Reverse Pos		et Cancel A	u seu	Buy at Ask	F8	
Order C D	🛚 S 😑 Price 😑	History Open	Sun, A	Duy at ASK	FO I	

To rearrange the left to right order of the trade buttons, select "Rearrange". The trade buttons will vibrate and their function, if not already disabled, will be suspended until the rearrangement of the trade buttons is complete. Click, hold and drag each button you wish to rearrange and place it in the position you desire. When you are done rearranging the trade buttons, click anywhere on the order book. The buttons no longer vibrate. They will remain fixed in their location until you rearrange them again and their functionality will return to the state (disabled or enabled) they were prior to rearranging them.



/ Ord	<b>er</b> Book		<b>%</b> -	8, 1	Т	- a,	-
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Position	(USD)	P	rice	Balance			
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-260.00				82.3			
-240.00				82.3			
-220.00				82.3		54	
-200.00				82.3		59	
-180.00				82.3		101	
-160.00				82.3	2	75	
-140.00		s2		82.3	1	68	
-120.00				82.3	0	17	
-100.00				82.2	9	23	
-80.00				82.2	8	18	
-60.00				82.2	7	10	
-40.00				82.2	6	7	
-20.00				82.2			
0.00			61	82 <mark>.</mark> 2			2
20.00			45	82.2			
40.00			54	82.2			
60.00			19	82.2			
80.00		<b>b</b> 2	33	82.2			
100.00		b2	31 40	82.1 82.1			
140.00			40	82.1			
140.00			28	82.1			
180.00			34	82.1			
200.00			1	82.1			
220.00				82.1			
240.00				82.1			
Buy Market	Cancel	All Re	verse Pos	Sell M	arket	Cncl All	8 Fitn

#### **Disabling and Enabling the Function of a Trade Button**

You may disable or enable the function of a trade button through the "Configure Trade Buttons" menu. When a trade button is disabled its color is rendered grey.



#### **Placing Simple Orders through the Order Book**

Once an instrument, an account, a duration and a quantity have been set, you may place orders through the Order Book. All orders placed through the Order Book will be submitted for the instrument and on the account you have set and with the duration and quantity that you have set.

#### **Market Orders**

Click on the button at the bottom of the Order Book labeled "Buy Market" to place an order to buy at the market. Click on the button at the bottom of the Order Book labeled "Sell Market" to place an order to sell at the market.

#### Limit Orders

Click in the Bid Size column, on the row that corresponds to the price at which you would purchase the instrument, to issue a "Buy Limit" order. Click in the Ask Size column, on the row that corresponds to the price at which you would sell the instrument, to issue a "Sell Limit" order. Shortly after the order is confirmed by the exchange as being open, you should see an entry in the Limit Orders column on the row on which you clicked, indicating the total quantity the account has open at that price for the instrument. As the order gets filled, the quantity displayed is reduced and when completely filled, removed.

#### Stop (Market) Orders

Set the default price type in the Stop section of the **Order Defaults** to Market.

Click in the column whose heading is an "S" on the row that corresponds to the stop price you would like to set. A stop (market) order will be placed immediately. If you clicked on a row whose price is above the last trade price, then the stop order will be a buy order. If you clicked on a row whose price is equal to or less than the last trade price, then the stop order will be a sell order.

#### **Stop Limit Orders**

Set the default price type in the Stop section of the **Order Defaults** to Limit.

Click in the column whose heading is an "S" on the row that corresponds to the stop price you would like to set. An order ticket will pop up populated with the instrument, account and quantity displayed in the Order Book, a duration as set in the Duration section of the **Order Defaults** and a price type of "Stop Limit". If you clicked on a row whose price is above the last trade price, then the order ticket will be set for a buy order. If you clicked on a row whose price is equal to or less than the last trade price, then the order ticket will be set for a sell order. In both cases, the limit price and the stop price will be set to the price displayed on the row on which you clicked. You may change the quantity, stop and limit price of the order by clicking on the arrows of their respective boxes or by typing in them directly. Click "Place Order" to submit the order or "Close" to close the window without placing the order.



#### Limit If Touched Orders

Set the default price type in the If Touched section of the **Order Defaults** to Limit.

Click in the column whose heading is a "T" on the row that corresponds to the limit price you would like to set. An order ticket will pop up populated with the instrument, account and quantity displayed in the Order Book, a duration as set in the Duration section of the **Order Defaults**, a price type of "Limit if Touched". If you clicked on a row whose price is greater than or equal to the last trade price, then the order ticket will be set for a sell order and the trigger price will be set to the best bid price. If you clicked on a row whose price is less than the last trade price, then the order ticket will be set for a buy order and the trigger price will be set to the best offer price. Refer to **Appendix B** for more information on populating an order ticket for an if touched order. Click "Place Order" to submit the order or "Close" to close the window without placing the order.

#### **Market If Touched Orders**

Set the default price type in the If Touched section of the **Order Defaults** to Market.

Click on a row in the column whose heading is a "T". An order ticket will pop up populated with the instrument, account and quantity displayed in the Order Book, a duration as set in the Duration section of the <u>Order Defaults</u> and a price type of "Market if Touched". If you clicked on a row whose price is greater than or equal to the last trade price, then the order ticket will be set for a sell order and the trigger price will be set to the best bid price. If you clicked on a row whose price is less than the last trade price, then the order ticket will be set for a buy order and the trigger price will be set to the best offer price. Refer to **Appendix B** for more information on populating an order ticket for an if touched order. Click "Place Order" to submit the order or "Close" to close the window without placing the order.

#### Modifying and Cancelling Orders and Flattening Positions through the Order Book

To modify the price of an open order through the Order Book click on an open order indicator and drag it to the row that displays the price at which you would like the quantity to be filled, stopped or triggered, as the case may be. A colored bar (usually red) will highlight the price as you drag the open order indicator as in the Order Book below. When you release it, a request will be sent to the exchange to modify the relevant price for all orders whose quantity was just dragged to the price that was last highlighted.



🥬 Ord	<b>er</b> Book		<b>.</b> 4	<b>b</b> •	<u> </u>		<u>]</u> - [	a, 🔻
CLV1.N	YMEX							+
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Light Sweet (	Crude Oil	Rit	hmic2 (R	tithmic A	ccount 2,	10	20	50 Set
	Total P&L	Ava	0pen Fil		Account	1		5 Def
Position	(USD)	Avg	Price		Balance		<u> </u>	5
-2	-40.00		82.24	4 807	418.12	Cl	ear	2 🇘
Show Bracket ar	nd 0C0 Entry	Order D	efaults					
			Limit		543	5		Trade
	Stops If Tou	iched (	Orders	Bid Size			Ask Size	Volume
-220.00					82.3		54	
-200.00					82.3		59	
-180.00					82.3		101	
-160.00			s2		82.3		75	
-140.00 -120.00			SZ.		82.3 82.3		68 17	
-120.00					82.3		23	
-80.00					82.2		18	
-60.00					82.2		10	
-40.00					82.2		7	
-20.00					82.2	5		
0.00				61	82.2	4		2
20.00				45	82.2	3		
40.00				54	82.2	2		
60.00				19	82.2	1		
80.00				33	82.2			
100.00			b2	31	82.1	9		
120.00				40	82.1	8		
140.00				44	82.1	-		
160.00				28	82.1			
180.00				34	82.1	5		
Buy Market	Cancel	All	Reven	se Pos	Sell A	Market	Cnd	All & Fltn

To cancel all open orders represented by a single open order indicator, double click on it.

To cancel all open orders (with respect to the account) for this instrument click on the "Cancel All" button at the bottom of the Order Book.

To cancel all open orders (with respect to the account) for this instrument and then flatten the current position of the instrument, click on the "Cncl All & Fltn" button at the bottom of the Order Book. R | Trade Execution Platform<sup>M</sup> will first cancel the account's open orders for the instrument and then issue a market order to flatten (close) its position.



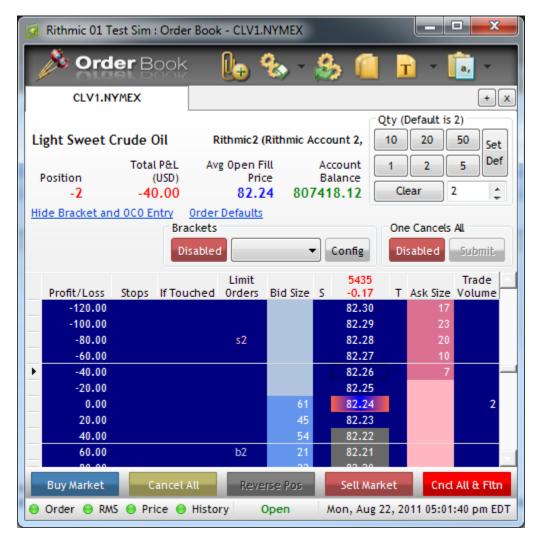
#### **Reversing a Position through the Order Book**

To reverse a position of an instrument for an account, i.e. to go from a position of long 5 to a position of short 5, click on the "Reverse Pos" button at the bottom of the Order Book. A single market order will be placed with a quantity equal to double the size of your position. The order will be a "Buy" order if your position is short and a "Sell" order if your position is long.

#### **Placing One Cancel Other Orders through the Order Book**

A One Cancels Other order (an OCO, also referred to as One Cancels All) placed through the Order Book is a set of orders that are placed simultaneously such that when any one of them is completed (either filled, cancelled or partially filled with its balance cancelled), the others will be cancelled (or balance cancelled, as the case may be), automatically by R | Trade Execution Platform<sup>TM</sup>.

To place an OCO through the Order Book you must first put the Order Book into OCO mode. Click on "Show Bracket and OCO Entry" and then click on the red "Disabled" button in the One Cancels All box in the top part of the Order Book.





The button will turn green and display "Enabled" indicating that the Order Book is in OCO mode, as in the Order Book below.

x Rithmic 01 Test Sim : Order Book - CLU1.NYMEX Order Book CLU1.NYMEX + X Qty (Default is 3) Light Sweet Crude Oil Rithmic3 (Rithmic Account 3, 10 20 50 Set Def Total P&L 2 5 Avg Open Fill Account 1 Position (USD) Balance Price \* 3 0.00 624722.06 Clear 0 Hide Bracket and OCO Entry **Order Defaults** Brackets One Cancels 0 Orders Disabled • Config Enabled Submit Limit 25 Trade Profit/Loss Stops If Touched Orders Bid Size S T Ask Size Volume +0.11 0.00 82.46 82.45 0.00 0.00 82.44 0.00 82.43 0.00 82.42 0.00 82.41 0.00 82.40 0.00 s3 82.39 0.00 82.38 0.00 82.36 0.00 0.00 82.35 0.00 82.34 0.00 82.33 0.00 82.32 0.00 82.31 0.00 82.30 0.00 82.29 0.00 82.28 Reverse Pos Buy Market Cancel All Sell Market Cncl All & Fltn Order 😑 RMS 😑 Price 😑 History Open Sun, Aug 21, 2011 08:12:00 pm EDT

Until the Order Book is taken out of OCO mode (by clicking the button again which will cause it to turn red and display "Disabled"), clicking to place an order will instruct the Order Book to include that order in the next OCO order but will **not** submit that order to R | Trade Execution Platform<sup>TM</sup>.



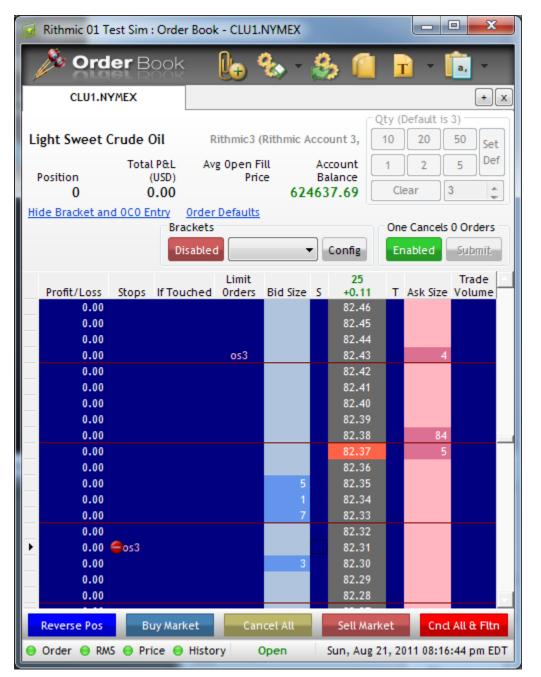
Click on the Order Book as if you were placing orders. Upon each click an open order indicator will appear except that it will be preceded by an asterisk ("\*") indicating that that order will be part of an OCO order and has not yet been submitted to R | Trade Execution Platform<sup>™</sup> (nor to the exchange). In the Order Book below you can see that a sell limit and a sell stop order will be part of the next OCO order.

😼 Rithmic 01 T	est Sim : Order B	ook - CLU1.I	NYMEX				
🔊 🔊 Ord	er Book		<b>}.</b> - }	8, 👔	Т	-	a, 🗸
CLU1.N	YMEX						+ x
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Light Sweet (	Crude Oil	Rithmic3 (	Rithmic Ac	1	10		50 Set
	Total P&L	Avg Open Fi	iu	Account	1	2	5 Def
Position 0	(USD) 0.00	Pric		Balance	Clea	ar 3	
l ľ	d 0C0 Entry 0r	der Defaults	024	002.09	0.00		-
	Brack				One	Cancels 2	2 Orders
	Disat	oled	•	Config	Ena	bled	Submit
		Limit		25			Trade
Profit/Loss 0.00	Stops If Touch	ed Orders	Bid Size	5 +0.11 82.46	ΤA	Ask Size	Volume
0.00				82.45			
0.00				82.44			
0.00		*s3		82.43			
0.00				82.42			
0.00				82.41			
0.00				82.40			
0.00				82.39			
0.00				82.38 82.37		5	
0.00				82.36		5	
0.00			5	82.35			
0.00			1	82.34			
0.00			7	82.33			
0.00	0			82.32			
	<b>6</b> *s3			82.31			
0.00			3	82.30 82.29			
0.00				82.29			
Reverse Pos	Buy Market	Can	cel All	Sell Ma	rket	Cod	All & Fltn
	S O Price O Hi		)pen	_			02 pm EDT

When you have finished organizing the individual orders for an OCO order, click on the blinking) "Submit" button in the One Cancels All box and the orders will be submitted to R | Trade



Execution Platform<sup>TM</sup> as an OCO order (and then to the exchange as appropriate). As the individual orders of the OCO order are confirmed open by the exchange (or confirmed held by R | Trade Execution Platform<sup>TM</sup>, as the case may be), each order of the OCO order will appear in the Order Book as usual but preceded by an "o".



The Order Book above shows 2 individual orders of an OCO order – an order to sell 3 at a limit price of 82.43 and an order to sell 3 stopped at a price of 82.31.



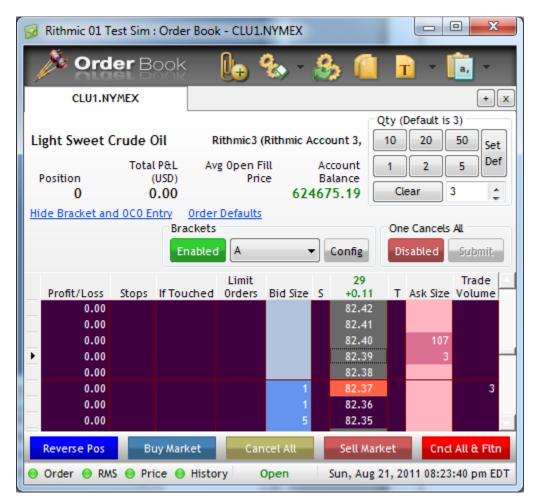
Continue clicking on the Order Book as if you were placing orders to set up the next OCO order and then click on the "Submit" button to submit them R | Trade Execution Platform<sup>™</sup>. Repeat this to place as many OCO orders as you would like. When you are done placing OCO orders click on the (green) "Enabled" button to take the Order Book out of OCO mode.

**Note:** An Order Book cannot be in OCO mode and in Bracket mode simultaneously. If an Order Book is in Bracket mode and you click on the "Disabled" button in the One Cancels All box then the Order Book will disable Bracket mode and enter into OCO mode. Disabling the OCO mode will not put the Order Book back into Bracket mode.

#### **Placing Bracket Orders through the Order Book**

A Bracket order is comprised of an entry order and one or more associated OCO orders. As the entry order gets filled, R | Trade Execution Platform<sup>M</sup> (not R | Trader<sup>M</sup>) automatically places OCO orders configured to capture a specified profit and configured to limit a specified loss.

To place a Bracket order you must first put the Order Book into Bracket mode. Click on "Show Bracket and OCO Entry" and then click on the red "Disabled" button in the Brackets box on the top part of the Order Book. The button will turn green and display "Enabled" indicating that the Order Book is in Bracket mode, as in the Order Book below.





Next, select a bracket configuration to use from the drop down box next to the "Enabled" button. Refer to **Appendix E** for instructions on how to configure a bracket.

😼 Rithmic 01 Te	est Sim : Orde	r Book - CLU1	NYMEX				
ord 🍂	<b>er</b> Book		‰ - {	B ք	T	) - [	a, 🗸
CLU1.NY	MEX						+ x
				C	Qty (D	efault is 3	)
Light Sweet C	Crude Oil	Rithmic3	(Rithmic Ace	count 3,	10	20	50 Set
	Total P&L	Avg Open F	ոս 4	Account	1	2	5 Def
Position	(USD)	Pri	ce l	Balance 🖁			
-4	-80.00	82.3	6246	60.19	Cle	ar 3	÷
Hide Bracket and		Order Defaults					
	Bra	ackets			One	Cancels A	L
	Er	nabled A	•	Config	Dis	abled	Submit
		Limit		33			Trade
Profit/Loss	Stops If Tou	iched Orders	Bid Size S		Т	Ask Size \	/olume
-360.00				82.46			
-320.00				82.45			
-280.00				82.44 82.43		4	
-200.00				82.43		_	
-160.00				82.41			
-120.00				82.40		109	
-80.00				82.39		1	
-40.00				82.38			
• 0.00			1	82 <mark>.</mark> 37			7
40.00			1	82.36			
80.00		b[3]	10	82.35			
120.00 160.00				82.34 82.33			
200.00				82.33			
				02102			
Reverse Pos	Buy Mark	ket Car	ncel All	Sell Ma	rket	Cncl A	All & Fitn
😑 Order 😑 RMS	5 😑 Price 😑	History	Open	Sun, Aug	21, 20	11 08:25:0	06 pm EDT

Until the Order Book is taken out of Bracket mode (by clicking the "Enabled" button which will cause it to turn red and display "Disabled"), clicking to place an order will instruct the Order Book to send that order to R | Trade Execution Platform<sup>™</sup> as an entry order together with the contents of the bracket that was displayed in the drop down box at the time the order was clicked. The Order Book above shows an open buy entry order for 2 CLU1 at a limit price of 82.35, bracketed. The "[]" surrounding a quantity indicate that the orders for the (open) quantity are the entry orders of bracket orders. As the open bracket order gets filled, R | Trade Execution Platform<sup>™</sup> places OCO orders consisting of limit orders and corresponding stop



(market) orders based upon the configuration of the bracket that was sent along with the entry order.

Order Book         Image: Section 1         Image: Section 1         Image: Section 1           CLU1.NYMEX         Image: Section 1         Image: Sec	😼 Rithmic 01 T	est Sim : O	rder Book	c - CLU1.	NYMEX				• X
CLU1.NYMEX       + ×         Light Sweet Crude Oil       Rithmic3 (Rithmic Account 3, Position       10       20       50       Set         Position       Total P&L       Avg Open Fill       Balance       12       5       Def         Position       5       -50.00       82.374       624612.69       Clear       5       \$         Hide Bracket and 0C0 Entry       Order Defaults       One Cancels All       Disabled       Summer         Profit/Loss       Stops       If Touched       Orders       Bid Size       5       +0.11       T Ask Size       Volume         600.00       82.47       40.11       T Ask Size       Volume       82.49       10.00       82.47         400.00       82.42       82.43       1       82.44       10.00       82.42       10.00       82.42       10.00       82.43       1       10.00       82.43       1       10.00       10.00       82.43       1       10.00       10.00       82.43       1       10.00       10.00       82.43       1       10.00       10.00       82.33       2.33       2.33       2.33       2.33       2.33       2.33       2.33       2.33       2.33       2.33       3.33       <	🔊 🔊 🔊 🔊	er Bo	ok		<b>a</b>	9. 6	1		
Light Sweet Crude Oil         Rithmic3 (Rithmic Account 3, 10 20 50 set 9 content of 10 20 50 set 1 2 5 Def           Position         (USD) 5 - 50,00 82.374 624612.69         1 2 5 Def           Hide Bracket and 0C0 Entry         Order Defaults         One Cancels All           Brackets         One Cancels All         Disabled           Profit/Loss         Stops         If Touched         Orders           550.00         82.47         Ask Size         Yolume           650.00         82.48         Task Size         Yolume           650.00         82.47         Stops         Trade           650.00         82.43         Task Size         Yolume           650.00         82.43         Task Size         Yolume           650.00         82.44         Stops         82.43         1           950.00         82.44         1         62.44         1           100.00         82.43         1         62.44         1           100.00         82.43         1         2         1           100.00         0.21         82.33         2         4           100.00         0.22         82.33         4         2           100.00         0.23         82.33 </td <td>010</td> <td>er Bo</td> <td>OK</td> <td><u>e</u></td> <td></td> <td><b>28</b> -</td> <td></td> <td></td> <td></td>	010	er Bo	OK	<u>e</u>		<b>28</b> -			
Light Sweet Crude Oil Rithmic 3 (Rithmic Account 3, 10 20 50 Set 1 2 5 Def Total PaL Avg Open Fill Account Balance 5 -50.00 82.374 624612.69 Clear 5 ¢ Hide Bracket and OCO Entry Order Defaults Brackets One Cancels Al Disabled Submit: Profit/Loss Stops If Touched Orders Bid Size 5 +0.11 T Ask Size Volume 650.00 82.49 500.00 82.49 500.00 82.44 450.00 82.45 300.00 82.44 450.00 82.44 450.00 82.45 300.00 82.44 450.00 82.44 450.00 82.45 300.00 82.44 450.00 82.44 450.00 82.45 300.00 82.42 100.00 82.41 6 100.00 82.42 100.00 82.41 6 100.00 82.42 100.00 82.41 6 100.00 82.42 100.00 82.42 150.00 82.41 6 100.00 82.42 150.00 82.43 1 40.00 82.43 1 10.00 82.43 10.00 82.42 150.00 82.33 20.00 82.42 150.00 82.33 20.00 82.33 20.00 82.32 20.00 82.33 20.00 82.33 20.00 82.42 150.00 82.33 20.00 82.42 150.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.42 150.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.33 20.00 82.42 20.00 82.33 20.00 82.42 20.00 82.33 20.00 82.22 20.00 82.22	CLU1.N	YMEX							+ x
Total Pât.         Avg Open Fill         Account Balance         1         2         5         Def           5         -50.00         82.374         624612.69         Clear         5         5           Hide Bracket and OCO Entry         Order Defaults         One Cancels All         Disabled         Submit           Profit/Loss         Stops         If Touched Orders         Bid Size         5         4.11         T         Ask Size Volume           600.00         82.49         500.00         82.49         500.00         82.49           500.00         82.41         6         82.43         1         200.00         82.43         1           200.00         82.43         1         200.00         82.43         1         200.00         82.43         1           200.00         82.41         6         82.43         1         2         5         5         5         5         5         82.33         1         2         5         5         5         5         82.43         1         2         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5							Qty (	Default is	5)
Position         Outer Call         Price         Battonce         Desition         Desition           5         -50.00         82.374         624612.69         Clear         5         5           Hide Bracket and OCO Entry         Order Defaults         One Cancels All         Disabled         Submit           Profit/Loss         Stops         If Touched         Orders         Bid Size         5         +0.11         T         Ask Size Volume           600.00         82.49         82.41         6         82.49         500.00         82.43         1           500.00         82.43         1         82.44         82.43         1         6           300.00         82.43         1         6         82.43         1         6           300.00         82.43         1         6         82.43         1         6           300.00         82.43         1         6         82.43         1         6           300.00         651         82.33         1         6         82.43         1           200.00         652         82.33         2         4         4           100.00         652         82.33         2	Light Sweet (	Crude Oil	R	ithmic3 (	Rithmic A	ccount 3,	10	20	50 Set
Position         (USD)         Price         Balance           5         -50.00         82.374         624612.69         Clear         5           Hide Bracket and OCO Entry         Order Defaults         One Cancels All         Disabled         Submit           8rackets         Enabled         A         Config         One Cancels All         Disabled         Submit           9rofit/Loss         Stops         If Touched         Orders         Bid Size         5         40.11         T         Ask Size Volume           600.00         82.49         500.00         82.49         500.00         82.41         6           500.00         82.43         1         200.00         82.43         1         200.00         82.43         1           200.00         82.43         1         55         55         5		Total P8	+I Δν	0 Open F	ill	Account			Def
Bit of the second of the second sec	Position						_		
Brackets         One Cancels All           Enabled         A         Config         Disabled         Submit           Profit/Loss         Stops         If Touched         Orders         Bid Size         5         +0.11         T         Ask Size         Volume           650.00         600.00         82.51         Trade         Trade         Trade         Trade           650.00         82.49         82.49         82.49         82.49         82.49         82.49         82.44         82.45         82.44         82.45         82.44         82.44         82.44         82.44         82.43         1         90.00         82.43         1         90.00         82.43         1         90.00         82.41         6         82.40         555         550.00         82.43         1         90.00         82.43         1         90.00         82.43         1         90.00         82.43         1         90.00         82.43         1         90.00         82.41         6         82.37         4         4         100.00         95.00         82.33         2         4         100.00         10.00         10.00         82.33         1         10.00         10.00         82.33 <t< td=""><td>5</td><td>-50.0</td><td>00</td><td>82.37</td><td>4 624</td><td>612.69</td><td>Cle</td><td>ear 5</td><td>5 📫</td></t<>	5	-50.0	00	82.37	4 624	612.69	Cle	ear 5	5 📫
Enabled         A         Config         Disabled         Submit           Profit/Loss         Stops         If Touched         Orders         Bid Size         5         *         T         Ask Size         Volume           650.00         82.50         82.51         82.41         82.41         82.41         82.41         82.41         82.41         6         82.41         6         82.41         6         82.51         82.32         82.31         82.41         6         82.41         6         82.41         6         82.41         6         82.33         1         9         10         0.00         55         82.33         2         4         82.33         2         4         82.33         2	Hide Bracket an	d OCO Entr		Defaults					
Profit/Loss         Stops         If Touched         Limit Orders         Bid Size         S         58         Trade           650.00         600.00         82.51         82.51         450.00         82.49           550.00         82.49         82.49         82.49         82.41           450.00         82.44         82.44         1           400.00         82.43         1         82.43           300.00         82.44         82.41         6           350.00         82.41         6         82.41           250.00         82.41         6         82.41           150.00         82.42         82.43         1           200.00         82.43         1         6           100.00         951         82.39         1           0.00         952         82.33         2           -50.00         951         82.33         2           -50.00         951         82.33         2           -50.00         952         82.33         2           -50.00         6951         82.33         2           -300.00         6951         82.27         3           -300.00			Brackets				One	e Cancels	All
Profit/Loss         Stops         If Touched         Orders         Bid Size         S         +0.11         T         Ask Size Volume           650.00         82.51         82.50         82.49         82.49         82.49         82.49           500.00         82.40         82.47         82.47         82.44         140.00         82.44         140.00         82.43         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         140.00         82.44         140.00         140.00         82.44         140.00         140.00         140.00         140.00         140.00         82.33         1         140.00         140.00         162.1         482.33         1         140.00         140.00         140.00         140.00         140.00         140.00         140.00         140.00         140.00         140.00         140.00         140.00         140.00			Enabled	A	-	Config	Dis	sabled	Submit
Profit/Loss         Stops         If Touched         Orders         Bid Size         S         +0.11         T         Ask Size         Volume           650.00         82.49         82.51         82.49         82.49         82.49         82.47           500.00         82.40         82.47         82.47         82.44         140.00         82.43         140.00         82.43         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         82.44         140.00         140.00         82.37         14         140.00         100.00         162         82.37         14         160.00         162         82.37         14         14         14         14         14         14         14         14         160.00         160.00         160.00         160.00         160.00         160.00         <									
650.00       82.51         600.00       82.49         500.00       82.49         500.00       82.47         450.00       82.47         450.00       82.45         350.00       82.44         250.00       82.44         250.00       82.44         250.00       82.41         6       82.42         150.00       82.41         6       82.40         55       50.00         0.00       os1         82.39       1         0.00       os2         82.37       4         -50.00       6         -50.00       82.37         -50.00       82.37         -50.00       82.33         -50.00       82.33         -200.00       82.33         -300.00       -0s2         -250.00       82.31         -400.00       82.29         -500.00       82.29         -500.00       82.27         -500.00       82.27         -500.00       82.27         -500.00       82.27         -500.00       82.27	Profit/Loss	Stops If	Touched		Bid Size		1 Т	Ask Size	
550.00       82.49         500.00       82.48         450.00       82.47         400.00       82.46         350.00       82.45         300.00       82.43         250.00       82.41         260.00       82.41         150.00       82.41         150.00       82.41         6       82.42         82.41       6         100.00       051         0.00       052         82.39       1         0.00       052         82.33       2         -50.00       5         -100.00       5         -200.00       5         -250.00       6051         -300.00       6051         -50.00       82.32         -50.00       82.33         -250.00       82.32         -350.00       6051         82.32       82.31         -450.00       82.29         -50.00       82.29         -50.00       82.27         -50.00       82.27         -50.00       82.27         -50.00       82.26         -50.00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
500.00       82.48         450.00       82.47         400.00       82.46         350.00       82.41         300.00       82.43         250.00       82.41         150.00       82.41         150.00       82.41         150.00       82.41         150.00       82.41         150.00       82.39         150.00       91         0.00       0s1         82.33       2         -50.00       91         -50.00       92         -50.00       92         -50.00       92         -50.00       92         -50.00       92         -50.00       92         -100.00       93         -300.00       93         -300.00       93         -300.00       93         -300.00       93         -300.00       93         -300.00       82.31         -300.00       82.32         -300.00       82.32         -300.00       82.32         -300.00       82.32         -550.00       82.22         -550.00<	600.00					82.5	)		
450.00       82.47         400.00       82.46         350.00       82.45         300.00       82.43         250.00       82.44         250.00       82.41         150.00       82.41         100.00       0s1         0.00       0s2         -50.00       82.38         -50.00       5         -0.00       5         82.38       2         -50.00       5         -50.00       5         -50.00       5         -50.00       5         -50.00       4         -250.00       82.37         -300.00       9         -250.00       82.33         -300.00       9         -350.00       82.31         -400.00       82.32         -550.00       82.29         -500.00       82.27         -500.00       82.27         -500.00       82.27         -500.00       82.27         -500.00       82.26         -550.00       82.26         -550.00       82.26         -500.00       82.26         -5	550.00								
400.00       82.46         350.00       82.45         300.00       82.43         250.00       82.44         200.00       82.42         150.00       82.41         100.00       0s1         0.00       0s2         50.00       0s1         0.00       0s2         50.00       0s1         0.00       0s2         -50.00       b[2]         4       82.37         -100.00       5         32.36       2         -50.00       5         -200.00       82.37         -300.00       0s2         -350.00       82.33         -300.00       0s2         -350.00       82.31         -400.00       82.30         -450.00       82.29         -550.00       82.27         -550.00       82.27         -550.00       82.26         -550.00       82.26         -550.00       82.26         -550.00       82.26         -550.00       82.26         -550.00       82.26         -550.00       82.26 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
350.00       82.45         300.00       82.43         250.00       82.43         100.00       82.42         150.00       82.41         100.00       0s1         50.00       0s1         82.39       1         0.00       0s2         9       82.38         -50.00       5         100.00       5         82.37       4         -100.00       5         -50.00       5         -50.00       6         -200.00       82.33         -300.00       6         -550.00       82.31         -400.00       82.32         -550.00       82.29         -500.00       82.29         -500.00       82.29         -550.00       82.27         -550.00       82.27         -550.00       82.26         -550.00       82.27         -600.00       82.26									
300.00       82.44         250.00       82.43         200.00       82.42         150.00       82.41         100.00       051         50.00       051         0.00       052         82.38       2         -50.00       5         -50.00       5         -50.00       051         -50.00       5         -50.00       5         -50.00       5         -50.00       62.37         -4       82.37         -50.00       4         -200.00       82.33         -300.00       6052         -350.00       6051         -6051       82.27         -550.00       82.29         -500.00       82.27         -550.00       82.27         -550.00       82.27         -600.00       82.27         -600.00       82.27         -550.00       82.27         -550.00       82.27         -550.00       82.27         -600.00       82.27         -550.00       82.27         -500.00       82.27									
250.00       82.43       1         200.00       82.42       82.41       6         150.00       051       82.39       1         0.00       052       82.38       2         -50.00       051       82.37       4         -100.00       052       82.35       4         -100.00       5       82.35       4         -50.00       602       82.33       4         -100.00       5       82.32       4         -50.00       82.33       82.33       4         -100.00       6052       82.32       4         -250.00       6051       82.31       4         -400.00       82.31       82.31       4         -550.00       82.28       82.29       5         -500.00       82.27       82.28       5         -500.00       82.27       82.26       5         -600.00       82.27       82.26       5         Reverse Pos       Buy Market       Cancet Alt       Sell Market       Cnct All & Fitn									
150.00       os1       82.41       6         100.00       os1       82.39       1         0.00       os2       82.38       2         -50.00       b[2]       4       82.37       4         -100.00       5       82.36       4         -100.00       4       82.37       4         -200.00       4       82.34       4         -200.00       4       82.33       4         -250.00       4       82.32       4         -300.00       6 os1       82.31       4         -400.00       82.31       82.31       4         -450.00       82.29       82.28       4         -500.00       82.27       82.26       5         -500.00       82.27       82.26       5         -500.00       82.27       82.26       5         -600.00       82.26       5       5								1	
100.00       os1       82.40       55         50.00       os1       82.39       1         0.00       os2       82.38       2         -50.00       b[2]       4       82.37       4         -100.00       5       82.36       4         -100.00       4       82.33       4         -200.00       4       82.33       4         -200.00       4       82.33       4         -300.00       -0s2       82.31       4         -300.00       -0s1       82.31       4         -400.00       82.29       82.28       4         -550.00       82.28       82.22       4         -550.00       82.27       82.26       4         Reverse Pos       Buy Market       Cancet All       Sell Market       Cnd All & Fitm	200.00					82.4	2		
50.00       os1       82.39       1         0.00       os2       82.38       2         -50.00       b[2]       4       82.37       4         -100.00       5       82.36       4         -100.00       4       82.35       4         -200.00       4       82.33       4         -250.00       4       82.34       4         -250.00       82.31       82.31       4         -300.00       os1       82.30       82.31         -300.00       os1       82.30       82.31         -350.00       os1       82.29       82.28         -550.00       82.27       82.26       9         -550.00       82.27       82.26       9         -550.00       82.27       82.26       9         -550.00       82.27       82.26       9         -500.00       82.27       82.26       9         -500.00       82.27       82.26       9         -500.00       82.27       82.26       9         -500.00       82.27       82.26       9         -500.00       82.26       9       9         -60	150.00					82.4	1	6	
0.00       os2       82.38       2         -50.00       b[2]       4       82.37       4         -100.00       5       82.36       4         -150.00       4       82.35       4         -200.00       4       82.33       4         -250.00       4       82.33       4         -300.00       -os2       82.31       82.31         -300.00       -os1       82.30       82.31         -350.00       -os1       82.30       82.32         -350.00       -ss1       82.28       82.29         -500.00       82.27       82.26       82.27         -550.00       82.27       82.26       82.27         -600.00       82.27       82.26       82.27									
→       -50.00       b[2]       4       82.37       4         -100.00       5       82.36       4       82.35       4         -100.00       4       82.35       4       82.35       4         -200.00       4       82.32       82.33       4       82.33       4         -250.00       6052       82.31       82.31       82.30       82.30       82.30       82.30       82.29       82.29       82.28       550.00       550.00       82.27       82.26       82.27       600.00       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82.27       82.26       82									
-100.00       5       82.36         -150.00       4       82.35         -200.00       82.34         -250.00       82.33         -300.00 ← os2       82.32         -350.00 ← os1       82.31         -400.00       82.29         -500.00       82.27         -550.00       82.27         -550.00       82.27         -550.00       82.27         -550.00       82.27         -600.00       82.27         -550.00       82.26         -550.00       82.26								2	4
-150.00       -200.00       82.35         -200.00       82.34         -250.00       82.33         -300.00       os2         -350.00       ss2.32         -350.00       ss2.31         -400.00       82.30         -450.00       82.29         -550.00       82.27         -550.00       82.27         -550.00       82.27         -550.00       82.26         -550.00       82.26         -550.00       82.26         -550.00       82.26				U[2]					7
-250.00       82.33         -300.00 ← os2       82.32         -350.00 ← os1       82.31         -400.00       82.30         -450.00       82.29         -500.00       82.28         -550.00       82.27         -600.00       82.26         Reverse Pos         Buy Market       Cancel All         Sell Market       Cncl All & Fltn									
-300.00 $\bigcirc$ os2         -350.00 $\bigcirc$ os1         -400.00       82.31         -400.00       82.30         -450.00       82.29         -500.00       82.27         -600.00       82.26         Reverse Pos         Buy Market       Cancet All       Sell Market       Cnct All & Fltn	-200.00					82.34	4		
-350.00 ← os1       82.31         -400.00       82.30         -450.00       82.29         -500.00       82.27         -550.00       82.27         -600.00       82.26         Reverse Pos         Buy Market       Cancet All         Sell Market       Cnct All & Fltn	-250.00					82.3	3		
-400.00       82.30         -450.00       82.29         -500.00       82.28         -550.00       82.27         -600.00       82.26         Reverse Pos         Buy Market       Cancel All       Sell Market       Cncl All & Fltn									
-450.00     82.29       -500.00     82.28       -550.00     82.27       -600.00     82.26       Reverse Pos     Buy Market     Cancel All       Sell Market     Cncl All & Fltn		Gos1							
-500.00         82.28           -550.00         82.27           -600.00         82.26           Reverse Pos         Buy Market         Cancel All           Sell Market         Cncl All & Fltn									
-550.00 -600.00 82.27 82.26 82.26 Reverse Pos Buy Market Cancel All Sell Market Cncl All & Fltn									
-600.00 82.26           Reverse Pos         Buy Market         Cancel All         Sell Market         Cncl All & Fltn									
	Reverse Pos	Buy	Market	Can	cel All	Sell M	arket	Cncl	All & Fltn
	😑 Order 😑 RM					Sun, Au	g 21, 20		



The Order Book above shows OCO orders that were placed as the entry order was filled. The entry order was a buy order for 5 CLU1 at a limit of 82.37. 3 were filled which caused R | Trade Execution Platform<sup>M</sup> to place 2 pairs of OCO orders. The first OCO pair consisted of a sell order for 2 CLU1 at a limit price 1 tick above the entry order fill price and a sell market order for 2 stopped at 5 ticks below the entry order fill price. The second OCO order consisted of a sell order for 1 CLU1 at a limit price 2 ticks above the entry order fill price and a sell market order for 1 stopped at 6 ticks below the entry order fill price. As only a quantity of 3 was filled, 2 remain open on the Order Book. The composition of the bracket used to place the bracket order (A) can be viewed in **Appendix E**.

You may place as many bracket orders as you wish, subject to your risk limits, by clicking on the Order Book to place orders while the Order Book is in Bracket mode. When you are done placing bracket orders click on the (green) "Enabled" button to take the Order Book out of Bracket mode.

**Note:** An Order Book cannot be in Bracket mode and in OCO mode simultaneously. If an Order Book is in OCO mode and you click on the "Disabled" button in the Brackets box then the Order Book will disable OCO mode and enter into Bracket mode. Disabling Bracket mode will not put the Order Book back into OCO mode.





## **Order History**

The Order History window displays information similarly to the Recent Orders window.

3	Rithmic 01 Test	t Sim : Order History										
	Orde	<b>r</b> History Accoun	Rithmic3 (Rith	mic Acco 👻	Date	2011-06-13	Ŧ	9	l.	🎭 - 🛔	3, 1	I
7	Working Orders	(2/2)				2011-06-13	<u> </u>					
			Buy/ Qty To			2011-06-12		Qty	Order			
	Account	Status	Sell Fill	Sym	bol	2011-06-11		Norking	Number	User Id	Exchang	ge Order Id
۲,	Rithmic3	open	5 2	YMM1		2011-06-10		2	6089317	New User	7337917	854
	Rithmic3	open	B 2	YMM1		2011-06-09		2	6089318	New User	7337917	855
						2011-06-08 2011-06-07						
						2011-06-07						
						2011-06-05						
						2011-06-05						
						2011-06-04						
						2011-06-03						
						2011-06-02						
Y	Completed Ord	lers (10/10)				2011-06-01						1
				Buy/	Qty To	2011-05-31			Price	Avg Fill	Limit	Order $_{ abla}$
	Account	Status	Remarks	Sell	Fill	2011-05-30		bol	Туре	Price	Price	Number
_	Rithmic3	Filled		В	5	2011-05-29			L	99.87		6089333
	Rithmic3	Cancelled		S	5	2011-05-28			L			6089332
	Rithmic3	Cancelled		В	7	2011-05-27			L			6089331
	Rithmic3	Cancelled		В	5	2011-05-25			L			6089330
_	Rithmic3	Cancelled		В	5	2011-05-24			L		99.84	6089329
	Rithmic3	Filled		В	5	2011-05-24			M	99.87		6089328
	Rithmic3	Filled		В	5	2011-05-22			M	99.87		6089327
	Rithmic3	Cancelled		S	5	2011-05-22			L			6089326
- 1	Rithmic3	Cancelled		S	5	2011-05-20			L			6089325
	Rithmic3	Cancelled		В	5	2011-05-20			L		99.86	6089324
						2011-05-19						
						2011-05-18						
						2011-05-16						
						2011-05-15	-					
						2011/05/15						
-	Order 🔵 RM	S 😑 Price 😑 Histo	Tradia	a Platform	by Dith	mic" 🔿 Pow	vered b	V OMN	EN T	Je, Jun 14, 2		-20 507

You may review orders of accounts for which you have permission. Select the account and date of the orders you wish to review from their respective drop down boxes. Click on the second the orders for that account on that date, if any, will be displayed, just like in the Recent Orders window. Double click on an order and its details will be displayed in a pop-up window.





## **Market Data Trade History**

The Market Data History window displays information about trades reported through an exchange's market data channels.

🗞 Market Data	Trade	History	l.	🎭 🔒 📋	<u>न</u> – 💼	•	
Date/Time (EDT)	Trade Price	Trade Size	Volume	Fill Id	Net Change	% Chapter	Trade Condition
2011-06-14 11:50:32.874258	1271.50	5ize 1	141548	Fittio	0.00	0.00	made condition
2011-06-14 11:49:32.877889	1271.50	1	141547		0.00	0.00	
2011-06-14 11:49:02.689071	1271.25	21	141546		-0.25	-0.02	
2011-06-14 11:49:02.689071	1271.25	10	141525		-0.25	-0.02	
2011-06-14 11:49:02.689071	1271.25	6	141515		-0.25	-0.02	
2011-06-14 11:48:32.851716	1270.50	1	141509		-1.00	-0.08	
2011-06-14 11:48:24.271261	1271.25	4	141508		-0.25	-0.02	
2011-06-14 11:47:45.234314	1270.50	1	141504		-1.00	-0.08	
2011-06-14 11:47:32.870731	1270.50	1	141503		-1.00	-0.08	
2011-06-14 11:46:32.898959	1270.50	1	141502		-1.00	-0.08	
2011-06-14 11:46:22.959060	1272.50	1	141501		1.00	+0.08	
2011-06-14 11:45:32.900933	1270.50	1	141500		-1.00	-0.08	
2011-06-14 11:45:00.520050	1270.50	33	141499		-1.00	-0.08	
2011-06-14 11:44:53.734685	1270.50	100	141466		-1.00	-0.08	
2011-06-14 11:44:52.867919	1270.50	99	141366		-1.00	-0.08	
2011-06-14 11:44:52.867919	1270.75	1	141267		-0.75	-0.06	
2011-06-14 11:44:32.865090	1271.50	1	141266		0.00	0.00	
2011-06-14 11:44:24.661339	1273.25	1	141265		1.75	+0.14	
2011-06-14 11:44:21.916532	1274.00	50	141264		2.50	+0.20	
2011-06-14 11:44:21.092412	1274.00	49	141214		2.50	+0.20	
2011-06-14 11:44:21.092412	1273.75	1	141165		2.25	+0.18	
2011-06-14 11:44:20.355926	1274.00	49	141164		2.50	+0.20	
2011-06-14 11:44:20.355926	1273.75	1	141115		2.25	+0.18	
2011-06-14 11:44:19.451784	1274.00	49	141114		2.50	+0.20	
2011-06-14 11:44:19.451784	1273.75	1	141065		2.25	+0.18	
2011-06-14 11:44:18.089567	1274.00	36	141064		2.50	+0.20	
2011-06-14 11:44:18.089567	1274.00	5	141028		2.50	+0.20	
2011-06-14 11:44:18.089567	1274.00	3	141023		2.50	+0.20	
2011-06-14 11:44:18.089567	1274.00	1	141020		2.50	+0.20	
Fetch data for ESM1.CME		durir	ng 30000	seconds around 2011	1-06-14 11:49:01	÷ 9	





## Positions

The Positions window displays information about positions and profit and loss for each account to which you have access. The upper pane shows the position by instrument and account and the lower pane shows fill reports for a selected instrument-account pair.

🔓 Pe	ositi	ions	Accour	nts ALL	•	_ l <sub>e</sub>	is - 🍰	› 🚺 🖻	- <mark>a</mark> ,	•				
Position	s	(4/4)									_			
			Net	Buy	Sell	Avg Open Fill		0pen	Closed	Tota			Account	
No.114	Symbol		Quantity	Quantity	Quantity	Price	Last Price	Profit/Loss	Profit/Loss			Account	Balance	
X YMM1			2	2	0		12002	-140.00	0.0		40.00 R		691999.61	
ESM1			-2	6	8			6050.00	-112.5		37.50 R		8506178.99	
CLQ1			15	15 1000	0 1000		97.67 39.13	-33000.00 0.00	0.0		00.00 R 5.00 jj		691999.61 9999991.69	
Fills		(8/22	2)											
Fills	nt $ abla$		2) 2 Order Id	F	ill Id	Order Number	Buy/ Sell	Symbol	Expiration	Exchange	Fill Size	Fill Price	Liquidity Indicator	
			order Id	F R19000880				Symbol		Exchange BATS	Fill Size			
Accour	1	Exchange	order Id 254D		3	Number	Sell	Symbol				39.13	Indicator	4
Accour jjw-pdt	-	Exchange 1E1U0600	e Order Id 1254D 1254D	R19000880	5	Number 6089501	Sell B C	Symbol		BATS	125	i 39.13 i 39.13	Indicator Routed	4
Accour jjw-pdt jjw-pdt	1	Exchange 1E1U0600 1E1U0600	0rder Id 254D 254D 254D	R19000880 R1900088F	G = E	Number 6089501 6089501	Sell B C B C	Symbol		BATS BATS	125 125	5 39.13 5 39.13 ) 39.13	Indicator Routed Routed	4
Accour jjw-pdt jjw-pdt jjw-pdt		Exchange 1E1U0600 1E1U0600 1E1U0600	e Order Id 254D 254D 254D 254D 254B	R19000880 R1900088F R1900088E	5 - - 	Number 6089501 6089501 6089501	Sell B C B C B C	Symbol	Month	BATS BATS BATS	125 125 250	5 39.13 5 39.13 ) 39.13 ) 39.13	Indicator Routed Routed Routed	4
Accour jjw-pdt jjw-pdt jjw-pdt jjw-pdt	-	Exchange 1E1U0600 1E1U0600 1E1U0600 1E1U0600	e Order Id 1254D 1254D 1254D 1254D 1254B 1254B 124NB	R19000880 R1900088F R1900088E 01900088E	5 - - - - - - - - - - - - - - - - - - -	Number 6089501 6089501 6089501 6089500	Sell B C B C B C B C B C	Symbol	Month	BATS BATS BATS BATS	125 125 250 500	5 39.13 5 39.13 0 39.13 0 39.13 0 39.13 0 39.13	Indicator Routed Routed Routed Removed	4
Accour jjw-pdt jjw-pdt jjw-pdt jjw-pdt jjw-pdt	-	Exchange 1E1U0600 1E1U0600 1E1U0600 1E1U0600 1E1U0600	e Order Id 1254D 1254D 1254D 1254D 1254B 124NB 124NB 124XI	R19000880 R19000886 R19000886 019000886 019000886	5 F D D	Number 6089501 6089501 6089501 6089500 6089498	Sell B C B C B C B C B C SS C	Symbol	Month	BATS BATS BATS BATS BATS	125 125 250 500	5 39.13 5 39.13 0 39.13 0 39.13 0 39.13 0 39.13 0 39.14	Indicator Routed Routed Routed Removed Added	4

To cancel open orders (if any) and flatten the position of a instrument in an account, click on the  $\bowtie$ , which by default is located in the leftmost column of the instrument whose position you wish to flatten.





## **Quote Board**

Use the quote board to view market data and to place new orders.

#### Viewing Market Data in the Quote Board

There are 2 ways to enter the symbol and exchange ids of the instrument whose market data you wish to view into a cell of a row:

- Click on the cell that corresponds to the row on which you wish to view the market data and to the column labeled "Symbol". Type the symbol in that cell followed by the symbol-exchange separator (a period "." by default) then followed by the id of the exchange or other trading venue on which that instrument trades (refer to **Appendix C** for a list of exchange and other trading venue ids). Tab out of the cell, press enter or click outside the cell and the market data for that instrument should appear; or
- Select an instrument from a search window. You may bring up the Add Symbol search window by right clicking on the row on which you wish to see the market data and selecting "Search and Add Symbol" from the ensuing popup window. Refer to **Appendix D** for instructions on how to use the Add Symbol window.

Quote Board		0 0 0 0			_	_		_	_	_	_	_			
Quote	Board	🕒 🥨 🐝 🔛 🗉	• <u> </u> a	, Show	Order Default	2									
			n: 4	<b>D:</b> J	066	Offer	Mat	%	Marilian	Last	Last	Tueda	1	116-6	Close
Symbol	Exchange	Description	Bid Size	Bid Price	Offer Price	Size	Net Change	e	Market Mode	Trade Price	Trade Size	Trade Volume	Low Price	High Price	Trade Price
H000911	1C	YHOO	20	13.78	13.83	20	change	C	Open	13.83	18	18	13.83	13.83	13.8
lardware							_	_							
APL	BATS	APPLE INC COM STK	200	388.71	389.04	103	+0.05	+0.01	Open	388.87	100	587586	388.50	392.08	388.8
APL0911	1C	AAPL	5	388.69	389.20	5			Open				389.91	389.91	390.0
SCO	BATS	CISCO SYSTEMS INC	5700	15.81	15.82	14700				15.815		1634384	15.70	15.95	15.6
SCO0911	1C	CSCO	10	15.79	15.84	50			Open						15.6
ELL	BATS	DELL INC		15.01	15.02	2440			Open				14.81	15.105	14.8
ELL0911	1C	DELL	50	12.62	17.42	50			Open						14.8
IPQ	BATS	HEWLETT-PACKARD CO	1640	26.20	26.22	3054			Open				26.165	26.41	26.0
PQ0911	1C	HPQ	5	26.05	26.13	5			Open				26.30	26.30	25.9
3M	BATS	INTL BUSINESS			173.42				Open				170.72	173.705	172.4
3M0911	1C	IBM	5	173.26	173.50	10			Open						172.4
NTC	BATS	INTEL CORP		20.31	20.32	4346			Open				20.16	20.405	20.2
NTC0911	1C	INTC	25	20.29	20.34	25			Open						20.2
RX	BATS	XEROX CORPORATION	4051	8.25	8.26	5680			Open				8.16	8.355	8.0
RX0911	1C	XRX	10	7.76	8.39	10									8.0
Banks															
AC	BATS	BANK OF AMERICA CORP		8.13	8.15	35660			Open				8.14	8.29	8.1
AC0911	1C	BAC	50	8.11	8.17	100			Open						8.1
	BATS	CITIGROUP		31.26	31.27				Open				30.97	31.53	30.8
0911	1C	С	5	31.22	31.29	5			Open				31.17	31.17	30.9
PM	BATS	JPMORGAN CHASE & CO		37.69	37.71								37.34	38.03	37.0
PM0911	1C	JPM	20	37.67	37.75	50			Open						37.0
IS	BATS	MORGAN STANLEY		17.42	17.43				Open				17.11	17.475	17.0
\S0911	1C	MS	5	17.40	17.45	5			Open						17.0
ETF's															
PX	CBOE	SPX							Open	1226.5			1213.0	1230.71	1212.9
PY	BATS	SPY		123.06	123.07								121.87	123.50	120.9
PY0911	1C	SPY	10	121.56	123.57	10			Open						120.9
000	BATS	000	36967	55.51	55.53	50430	+0.79	+1.44	Open	55.52	1000	4588194	55.14	55.74	54.7

In almost all cases the symbol must be of the form recognized by the exchange on which it trades.



#### Examples:

CLV1.NYMEX	Crude Oil Future traded at the NYMEX expiring in September 2011
ESZ1.CME	E-Mini S&P Future traded at the CME expiring in December 2011
ESX1 C1280.CME	E-Mini S&P 1280 Call traded at the CME expiring in November 2011
FESX0312.EUREX	Euro Stoxx 50 Index future traded at the Eurex expiring in March 2012
LFI0308.LIFFE	Three Month Euro Future (Euribor) traded at the LIFFE expiring in March 2012
YMU1.CBOT	Mini Dow Jones Future traded a the CBOT expiring in September 2011

#### **Placing Orders from the Quote Board**

There are 4 ways to place an order for an instrument from the quote board:

- Double click on any column in the row showing market data for the instrument you wish to trade (except the column labeled "Symbol") and an Order Book window will pop up displaying data for that instrument. You may also right click on that row and select "Order Book" from the right click pop up menu. Refer to the section on the Order Book in this document for a description of placing orders from the Order Book window.
- Click on <u>Show Order Defaults</u> at the top right of the Quote Board window. The bottom of the Quote Board window will show order defaults which you may modify.

🖉 Quote	Board 🛛 🚺	€⊳ -	🔒 ք	T	- 💼	Hide	Order Defau				
Symbol	Description	Expiration Month	Market Mode	Net Change	Bid Size	Bid Price	Last Trade Price	Last Trade Size	Offer Price	Offer Size	Trade Volume
Equity In	dices										
ESU1	E-Mini S&P 500	Sep-11	No Cancel	-18.25	78	1180.75	1180.75	1	1181.00	500	43841
YMU1	mini-sized Dow	Sep-11				11270			11271	16	
TF FMU0011!	Russell 2000 Index	Sep-11			2	704.80			769.00	24	
NQU1	E-Mini Nasdaq-100	Sep-11	No Cancel			2197.50			2197.75		
EMDU1	E-Mini S&P Midcap	Sep-11	No Cancel						841.20		
Account			uration	All Acti	ions	Qty	Max	Show Qty			
Rithmic2 (Rithmic	Account 2, I 👻 🔘 L	arket	•	Cor	nfirm	1	¢ 🗌	Use 0	*		

Set the default quantity to trade and the default account to use. You may hide the order defaults at any time by clicking on <u>Hide Order Defaults</u> at the top right of the Quote Board window.

Click on either the column labeled "Bid Size" or on the column labeled "Offer Size" of the row showing market data for the instrument you wish to trade. A click on the "Bid Size" indicates that a sell order is forthcoming and a click on the "Offer Size" indicates that a buy order is forthcoming.

a. If the Confirm box in the All Actions section of the order defaults is checked, then a Place Order window (an order ticket) will pop up, pre-populated with the symbol and exchange ids of the instrument you wish to trade, with the default



quantity to trade and the default account to use (from the bottom of the Quote Board window).

- i. If you clicked on the "Bid Size" column then the order ticket will be for a sell order and if the order is a limit order (as indicated in the defaults at the bottom of the Quote Board window) the limit price will be populated with the offer price as of the time at which you clicked on the "Bid Size".
- ii. If you clicked on the "Offer Size" column then the order ticket will be for a buy order and if the order is a limit order the limit price will be populated with the bid price as of the time at which you clicked on the "Offer Size".

E	Place Order			<b>X</b>
	Account jjw-pdt (Pattern Day Trader, Prospects)	Exchange Duration BATS DAY	Routing Instructions BATS, then ARCA	INTEL CORP
	Buy/Sell Qty Symbol Buy 7 1 Show more options	Price Type Limit	Limit Price	
	☑ Close when done			Place Order

Click the "Place Order" button to submit the order and close the order ticket. Click the "Close" button to close the order ticket without submitting the order.

- b. If the Confirm box in the All Actions section of the order defaults is **not** checked, then:
  - i. If you clicked on the "Bid Size" column and if the order is a market order (as indicated in the defaults at the bottom of the Quote Board window) then an order to sell at the market will be sent. If the order is a limit order then an order to sell with a limit price equal to the bid price as of the time at which you clicked on the "Bid Size" will be sent.
  - ii. If you clicked on the "Offer Size" column and if the order is a market order (as indicated in the defaults at the bottom of the Quote Board window) then an order to buy at the market will be sent. If the order is a limit order then an order to buy with a limit price equal to the offer price as of the time at which you clicked on the "Offer Size" will be sent.
- 3. Click on <u>Show Order Defaults</u> at the top right of the Quote Board window. The bottom of the Quote Board window will show order defaults which you may modify. Set the default quantity to trade and the default account to use and set the default price type to Limit. You may hide the order defaults at any time by clicking on <u>Hide Order Defaults</u> at the top right of the Quote Board window.

Select the row showing market data for the instrument you wish to trade and move your mouse pointer over the column of that row labeled "Bid Price" or "Offer Price" (or, if the row showing market data for the instrument you wish to trade has not been selected, click on the column labeled "Bid Price" or "Offer Price" of that row). A small list, displaying the prices in a column next to the one in which your mouse is hovering (or



next pt the column in which you clicked) and up to 5 related prices, each 1 tick apart, will pop up.

🝠 Quot	e Board 🛛 🛛 🔒	€	81	Т	- 🚺	Hide	Order Defau				
Symbol	Description	Expiration Month	Market Mode	Net Change	Bid Size	Bid Price	Last Trade Price	Last Trade Size	Offer Price	Offer Size	Trade Volume
Equity In	dices										
ESU1	E-Mini S&P 500	Sep-11	Open	4.25	10	1197.75	1203.25	6	1200.50	20	10824
YMU1	mini-sized Dow	Sep-11									
TF FMU0011!	Russell 2000 Index	Sep-11	Open	-66.60	2	704.80	706.50	1	769.00	769.00	147
NQU1	E-Mini Nasdaq-100	Sep-11								768.90	
EMDU1	E-Mini S&P Midcap	Sep-11								768.80 768.70 768.60	1
Account	Price	Туре — С	uration	All Acti	ons	Qty	Max	Show Qty		768.50	
Rithmic2 (Rithmi	c Account 2, I ▼ 0 L	imit Iarket	DAY 🔻	Cor	nfirm	1	-	Use 0	÷.	v	Ĵ

The 5 prices will be at and above the price of the bid price if you hovered over or clicked on the column labeled "Bid Price" and they will be at and below the offer price if you hovered over or clicked on the column labeled "Offer Price". If the price you wish to trade is not visible in the pop up list, click on the arrow to advance the prices to the one you wish to trade.

If the Confirm box in the All Actions section of the order defaults is checked then clicking on one of the prices will bring up an order ticket with a limit price equal to the price on which you clicked. The order will be a sell order if you hovered over or clicked on the column labeled "Bid Price" and the order will be a buy order if you hovered over or clicked on the column labeled "Offer Price". The order ticket will be pre-populated with the symbol and exchange ids of the instrument you wish to trade, and with the default quantity to trade and the default account to use (from the bottom of the Quote Board window). Click the "Place Order" button to submit the order. Click the "Close" button to close the order ticket without submitting the order.

If the Confirm box in the All Actions section of the order defaults is **not** checked then clicking on one of the prices in the pop up list will automatically submit an order with a limit price equal to the price on which you clicked for the symbol and exchange ids of the instrument you wish to trade, and with the default quantity to trade and the default account to use.

4. Click on <u>Show Order Defaults</u> at the top right of the Quote Board window. The bottom of the Quote Board window will show order defaults which you may modify. Set the default quantity to trade and the default account to use at the bottom of the Quote Board window. You may hide the order defaults at any time by clicking on <u>Hide Order Defaults</u> at the top right of the Quote Board window.

Right click on the row showing market data for the instrument you wish to trade and a menu will display. Select the Trade sub menu and a list of trading actions will be shown.



g Quot	te Board 🛛 🛛 🚺	• 🗞 •	8 1	T	- <mark>(</mark> a,	Hide (	)rder Defaul						
Symbol	Description	Expiration Month	n Market Mode	Net Change	Bid Size	Bid Price	Last Trade Price	Last Trade Size	Offer Price	Offer e Size	Trade Volume		
Equity lı	ndices												
SU1	E-Mini S&P 500	Sep-11				1197.75					4 11231		
/MU1 F FMU0011!	mini-sized Dow Russell 2000 Index	Sep-11 Sep-11	Halted Open	-415 -66.60	2	704 80	11000 706 50	1	769.0	0	1 24 147		
QU1	E-Mini Nasdaq-100	Sep-11	Halted	-00.00			and Add Syr		Ctrl+F	Ĭ	.4 14/		
MDU1	E-Mini S&P Midcap	Sep-11				Order B		-	Ctrl+B		1		
									.tri+B				
count			Duration	All Acti	ons		Data Trade	History					
ithmic2 (Rithm	nic Account 2. 🚽	Limit Market	DAY 👻	Cor	nfirm	Options	Board						
		Market				Recent	Orders	C	trl+0				
Order 😑 RMS	😑 Price 😑 History	🔂 Tra	ding Platforr	m by <b>Rithn</b>	nic" i	View Po	sitions	C	Ctrl+P	07, 2011	05:31:19 pm E	DT	
Order 😑 RMS	\varTheta Price 😑 History	🔂 Tra	ding Platforr	m by <b>Rithn</b>	nic"		sitions Dashboard		Ctrl+P Ctrl+I	07, 2011	05:31:19 pm E	DT	
Order 😑 RMS	Price O History	🔂 Tra	ding Platforr	m by <b>Rithn</b>	nic"						05:31:19 pm E uy Limit	DT	Pl
Irder 😑 RMS	Price History	🔂 Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trader [		(	Ctrl+I	В			
Irder 😑 RMS	Price History	<b>⊡</b> Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trader I Trade	Dashboard	( 	Ctrl+I	B	uy Limit		
rder 😑 RMS	Price History	<b>⊡</b> Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trader I Trade Font	Dashboard	c c	Ctrl+I Ctrl+T	B	uy Limit uy Market	Numpad	lin
irder 🥚 RMS	Price History	😡 Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trader I Trade Font Fore Co Back Co	Dashboard	c c	Ctrl+I Ctrl+T Ctrl+R Ctrl+K	B	uy Limit uy Market ell Limit ell Market	Numpad NumpadM	lin
irder 🥚 RMS	Price History	😼 Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trade I Trade Font Fore Co Back Co Reset	Dashboard	( C C	Ctrl+I Ctrl+T Ctrl+R Ctrl+K	B B S S P	uy Limit uy Market ell Limit ell Market ull Working O	Numpad NumpadM	lini I Fi
irder 🤤 RMS	Price History	G Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trader I Trade Font Fore Co Back Co Reset Copy	Dashboard	C C C C C trl+Sh	Ctrl+I Ctrl+T Ctrl+R Ctrl+K ift+C	B B S S P	uy Limit uy Market ell Limit ell Market ull Working O	Numpad NumpadM	lini I Fi
irder 🤤 RMS	Price History	G Tra	ding Platforr	m by <b>Rithn</b>	nic"	Trader I Trade Font Fore Co Back Co Reset Copy Paste	Dashboard	C C C C C trl+Sh	Ctrl+I Ctrl+T Ctrl+R Ctrl+K ift+C Ctrl+V	B B S S P	uy Limit uy Market ell Limit ell Market ull Working O	Numpad NumpadM	lini I Fi
irder 🥥 RMS	Price History	G Tra	ding Platform	m by <b>Rithn</b>	nic"	Trader I Trade Font Fore Co Back Co Reset Copy Paste Insert	lor	C C C C C C trl+Sh C	Ctrl+I Ctrl+T Ctrl+R Ctrl+R Ctrl+K ift+C Ctrl+V Ins	B B S S P	uy Limit uy Market ell Limit ell Market ull Working O	Numpad NumpadM	F1
Order 🔵 RMS	Price History	₩ Tra	ding Platforr	m by <b>Rith</b> n	nic"	Trader I Trade Font Fore Co Back Co Reset Copy Paste Insert Insert La	lor	C C C Ctrl+Sh Shif	Ctrl+I Ctrl+T Ctrl+R Ctrl+K Ctrl+K ift+C Ctrl+V Ins ft+Ins	B B S S P	uy Limit uy Market ell Limit ell Market ull Working O	Numpad NumpadM	F Iinu F F1
Order 🥥 RMS	Price History	<b>∦</b> Tra	ding Platforr	m by <b>Rith</b> n	nic"	Trader I Trade Font Fore Co Back Co Reset Copy Paste Insert	lor	C C C Ctrl+Sh Shif	Ctrl+I Ctrl+T Ctrl+R Ctrl+R Ctrl+K ift+C Ctrl+V Ins	B B S S P	uy Limit uy Market ell Limit ell Market ull Working O	Numpad NumpadM	F Iinu F F1

Click on the action you wish to execute and an order ticket will pop up appropriately populated. Alternatively you may press the keystrokes indicated in the Trade submenu to pop up the order ticket (the "+" sign on the number pad to bring up a buy limit order ticket, ...).

🖗 Place Order		<b>×</b>
Account Exchange Rithmic2 (Rithmic Account 2, Prospects) VIBOT	Duration	Russell 2000 Index Mini Futures - NYCC - Sep11
Buy/Sell Qty Symbol Sell 1 CF FMU0011! Showmore options	Price Type Limit Price	
V Close when done		Place Order

Though the Place Order window (the order ticket) pops up pre-populated, you may change the contents of any of the fields. Click the "Place Order" button to submit the order. Click the "Close" button to close the Place Order window without placing the order.





## **Trader Dashboard**

The Dashboard window displays position and profit and loss information for each account to which you have access.

	-IB) •	Accounts	Filtered 🔻	0	0	3	0	Alert By	%Max Allowal	ble Loss 👻		
Account	Open Profit/Loss	Closed Profit/Loss	PNL	Account Balance	Cash On Hand	Fill Buy Qty	Fill Sell Qty	Net Position	Available Margin	Reserved Buying Power	Used Buying Power	Available Buying Power
lithmic1	6075.00	-112.50	5962.50	8506203.99	8500276.49	6	8	-2	8505203.99			
Rithmic2	0.00	0.00	0.00	807463.12	807463.12	0	0	0	807463.12			
Rithmic3	-32860.00	0.00	-32860.00	692279.61	725182.11	17	0	17	683779.61			
ł	ithmic1 ithmic2	Account Profit/Loss ithmic1 6075.00 ithmic2 0.00	Account         Profit/Loss         Profit/Loss           ithmic1         6075.00         -112.50           ithmic2         0.00         0.00	Account         Profit/Loss         Profit/Loss         PNL           ithmic1         6075.00         -112.50         5962.50           ithmic2         0.00         0.00         0.00	Account         Profit/Loss         Profit/Loss         PNL         Balance           ithmic1         6075.00         -112.50         5962.50         8506203.99           ithmic2         0.00         0.00         0.00         807463.12	Account         Profit/Loss         Profit/Loss         PNL         Balance         Hand           ithmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49           ithmic2         0.00         0.00         0.00         807463.12         807463.12	Account         Profit/Loss         PNL         Balance         Hand         Qty           tthmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49         6           tthmic2         0.00         0.00         0.00         807463.12         807463.12         0	Account         Profit/Loss         Profit/Loss         PNL         Balance         Hand         Qty         Qty           ithmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49         6         8           ithmic2         0.00         0.00         0.00         807463.12         0         0	Account         Profit/Loss         PNL         Balance         Hand         Qty         Qty         Position           ithmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49         6         8         -2           ithmic2         0.00         0.00         0.00         807463.12         807463.12         0         0         0	Account         Profit/Loss         Prolit         PNL         Balance         Hand         Qty         Qty         Position         Margin           tthmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49         6         8         -2         8505203.99           tthmic2         0.00         0.00         0.00         807463.12         807463.12         0         0         0         807463.12	Account         Profit/Loss         Profit/Loss         PNL         Balance         Hand         Qty         Qty         Position         Margin         Buying Power           ithmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49         6         8         -2         8505203.99           ithmic2         0.00         0.00         0.00         807463.12         0         0         0         807463.12	Account         Profit/Loss         PNL         Balance         Hand         Qty         Qty         Position         Margin         Buying Power         Power           ithmic1         6075.00         -112.50         5962.50         8506203.99         8500276.49         6         8         -2         8505203.99           ithmic2         0.00         0.00         807463.12         807463.12         0         0         807463.12

Double click on an account and you will bring up the Symbol Dashboard window. This window displays position and profit and loss information for each instrument traded in that account.

	c 01 Test Sim	: Symbol Dashb	poard							
Ω s	Symbol	Dashbo	ard 🜔	s 🇞 -	👶 🚺	<b>1</b> - [	a, 🗸			
ccount	Rithmic3		•							
Sy	/mbol 스	Buy Exposure	Sell Exposure	PNL	Working Buy Qty	Fill Buy Qty	Working Sell Qty	Fill Sell Qty	Net Position	
6BU1		0	50	0.00	0	0	50	0	0	
6EU1		20	0	0.00	20	0	0	0	0	
6MU1		20	0	0.00	20	0	0	0	0	
CLQ1		15	-15	-32550.00	0	15	0	0	15	
ESM1		5	0	-62.50	0	5	5	0	5	
J7U1		5	0	0.00	5	0	0	0	0	
QIN1 Q0Q1		12	0	0.00	12	0	0	0	0	
YG0711		1	12	0.00	1	0	12	0	0	
YI0711		2	0	0.00	2	0	0	0	0	
YMM1		2	0	-190.00	2	2	2	0	2	
ZBM1		0	2	0.00	0	0	2	0	0	
ZBU1		1	0	0.00	1	0	0	0	0	
ZCU1		2	ů.	0.00	2	0	ő	0 0	0	
Z0U1		1	-	0.00	1	0	0	0	0	

Right click on an account and you will be able to select from the following options:



#### **View Risk Parameters**

View the risk parameters of each product code which may be traded on the selected account.

Ø	Rithmic 01 Test	Sim : View Risk Pa	arameters - Rithn	nic1 (Maximum A	Available Marg	jin)	Į		×
(	🕥 Risk 🛛	Parameters	ē 🕒 <	ъ 🤧		- <mark>a,</mark> -			
	Account	Buy Limit	Sell Limit	Loss Limit	Max Order Qty	Min Account Balance	Net Open Value Limit	Min Margin Balance	
Þ	Rithmic1	5000000	5000	0	0	0.00	0	1000.00	
	Product	Buy Limit	Sell Limit	Loss Limit	Max Order Qty	Commission Fill Rate	Buy Long Margin Rate	Sell Short Margin Rate	-
	ZQ	0	0	0	0	2.50	500.00	500.00	
	ZR	0	0	0	0	2.50	500.00	500.00	
	ZS	0	0	0	0	2.50	500.00	500.00	
	ZT	0	0	0	0	2.50	500.00	500.00	-
0	Order 🛛 😑 RMS	😑 Price 😑	History			Tue	, Jun 14, 2011	1 12:21:43 pm	EDT

#### **View Positions**

Launch a Positions window for the selected account.

#### **Open Order Book**

Launch an Order Book window for the selected account.

#### **Open Options Board**

Launch an Options Board window for the selected account.

#### **View Recent Orders**

Launch an Actual Orders window for the selected account.

#### **Pull Working Orders**

Cancel all working orders for the selected account.

#### **Pull Working Orders and Exit Position**

Cancel all working orders then flatten all positions for the selected account.





## **Future Strategies**

The Future Strategies window displays the composition of exchange listed strategy instruments and real time prices for these instruments, their legs and for the synthetic calculation of the strategy.

🗼 Future Strate	gies 🚺	9 <b>%</b> - 1	😼 们 🖬	- 💼 - sh	ow Order Default	
change Product		Strate	egy Type			
BOT 👻 YM - mini-si	zed Dow Futures (\$	5) 🔻 Futu	res Calendar	•		
P-11 Dec-11 Mar-12 Jun-1	12					
Symbol	Weight	Bid Qty	Bid	Ask	Ask Qty	Last
- YMU1-YMM2			515		, and a	2000
Synthetic		20	-97			
··· YMU1	-1	7	10859	10861	20	10859
···· YMM2	+1	100	10764			10734
🗅 YMU1-YMZ1		322	-72	-71	128	-72
- Synthetic		20	-74	-71	6	
··· YMU1	-1	7	10859	10861	20	10859
···· YMZ1	+1	22	10787	10788	6	10787
YMU1-YMH2						
Synthetic		20	-155	-152	7	
··· YMU1	-1	7	10859	10861	20	10859
···· YMH2	+1	401	10706	10707	376	10707
<sup>⊡.,</sup> ҮМU1-ҮМU2						
Synthetic						
··· YMU1	-1	7	10859	10861	20	10859
···· YMU2	+1					

Right click on a strategy instrument and select "Show Order Book" and an order book window for that strategy instrument will display. If you right click on a line labeled "Synthetic" then an order book window for the strategy instrument of which the synthetic entry is a part will be displayed as well as an order book window for each of its legs (the order books will be stacked on each other but can be moved (dragged) separately).

#### **Placing Orders from the Future Strategies Window**

You may place orders for a listed strategy through the Future Strategies window by clicking on a "Bid" or "Ask" column of the row that corresponds to the strategy you wish to buy or sell. A click on a "Bid" column price brings up a Place Order window populated to sell the strategy with and fields containing the default values as set through <u>Show Order Defaults</u>. A click on the "Ask" column price brings up a Place Order window similarly populated but set to buy the strategy.



🗿 Place Order						
Account Rithmic1 (Rithmic Ad	ccount 1	I, Prospects)	Exchange CBOT	Duration DAY		mini-sized Dow Futures (\$5)
Buy/Sell Sell Showmore options	Qty 3	Symbol YMU1-Y/	4Z1	Price Type Limit	Limit Price -72	
👽 Close when done						Place Order

Though the Place Order window pops up pre-populated, you may change the contents of the fields that have an associated drop down box. Click the "Place" button to submit the order. Click the "Close" button to close the Place Order window without placing the order.

**Note:** As of the date of this publication the calculation of the synthetic value of a strategy may not be correct in all cases and should not be used in any trading *decisions.* Contact your FCM, Broker-Dealer or IB for more information.





## **Equity Option Strategies**

The Equity Option Strategies window displays the composition of exchange listed strategy instruments and real time prices for these instruments, their legs and for the synthetic calculation of the strategy.

👞 Equity Option	Stratagio	<u> </u>	0. 0		1		
	Strategie	ି 🔛	🌝 - 🍪 I	T	a, Hide	<u>Order Defaults</u>	
hange <u>Symbol</u> S	trategy Type						
OE - AAPL	/ERTICAL	I					
Sep-11 22-Oct-11 19-Nov-11	17-Dec.11 21-	ap.12 21. Apr.1	2 19-Jan-13				
			Bid	A	tal Ob.	Last	
Symbol	Weight	Bid Qty	BID	Ask	Ask Qty	Last -10.00	
- AAPL:+1 19Jan130220 -1						5.58	
AAPL:-1 19Jan13P345 +1						5.50	
AAPL:+1 19Jan13P320 -1						-7.00	
AAPL:+1 19Jan13P150 -1							
AAPL:+1 19Jan13P180 -1							
AAPL:-1 19Jan13C350 +1		2	-48.25				
AAPL:+1 19Jan13C470 -1							
AAPL:+1 19Jan13C350 -1				8.40	10	5.50	
AAPL:+1 19Jan13C360 -1		1	10.00			18.10	
AAPL:+1 19Jan13C400 -1						33.53	
📮 AAPL:+1 19Jan13C370 -1		1	11.95				
··· Synthetic		20	14.25	16.45	10		
- AAPL19Jan13C370	+1	20	73.25	74.70	144	74.40	
···· AAPL19Jan13C400	-1	10	58.25	59.00	71	58.70	
AAPL:-1 19Jan13C340 +1		1	-24.00				
Synthetic		108	-16.40	-13.20	20		
AAPL19Jan13C340	-1	20	90.50	92.00	145		
AAPL19Jan13C365	+1	108	75.60	77.30	146	10.00	
AAPE-119Jail19C310 +1		1 20	-26.50 -21.30	-17.80	62	-18.38	
<ul> <li>Synthetic</li> <li>AAPL19Jan13C310</li> </ul>	-1	20 62	-21.30	-17.80	62 135		
AAPL19Jan13C340	+1	20	90.50	92.00	135		
AAPL:+1 19Jan13P260 -1	ŦI	20	90.50	92.00	140	-4.25	
AAPL:+1 19Jan13P180 -1						4.23	
AAPL:+1 19Jan13C330 -1						17.75	
AAPL:+1 19Jan13C400 -1		25	20.00			20.80	
Synthetic		10	19.45	20.95	20		
AAPL19Jan13C400	+1	10	58.25	59.00	71	58.70	
AAPL19Jan13C450	-1	20	38.05	38.80	21	38.25	
ccount	Price Type	Duration	All Actions	Qty	Max Show Qty	Routing Instructions	
	C Limit						
-	Market	DAY 👻	Confirm	0 ‡	Use 0	¢ CBOE	-
	e mar not					CBOE	

Right click on a strategy instrument and select "Show Order Book" and an order book window for that strategy instrument will display. If you right click on a line labeled "synthetic" then an order book window for the strategy instrument of which the synthetic entry is a part will be displayed as well as an order book window for each of its legs.

### **Placing Orders from the Equity Options Strategies Window**

You may place orders for a listed strategy through the Equity Options Strategies window by clicking on a "Bid" or "Ask" column of the row that corresponds to the strategy you wish to buy or sell. A click on a "Bid" column price brings up a Place Order window populated to sell the



strategy with other fields containing the same contents as the Order Parameters of the Strategy Board window. A click on the "Ask" column price brings up a Place Order window similarly populated but set to buy the strategy.

E	Place Order		x
	Account Exchange Duration Account (Rithmic Account 1, Prospects) CBOE DAY	Routing Instructions CBOE A	APL
	Buy/Sell     Qty     Symbol     Price Type       Buy     1     2     AAPL:-1 21Jan12C355 +1     Limit	Limit Price	
	✓ Close when done	Place Order	

Though the Place Order window pops up pre-populated, you may change the contents of the fields that have an associated drop down box. Click the "Place Order" button to submit the order. Click the "Close" button to close the Place Order window without placing the order.

**Note:** As of the date of this publication the calculation of the synthetic value of a strategy may not be correct in all cases and should not be used in any trading decisions. Contact your FCM, Broker-Dealer or IB for more information.





## Synthetic Board

The Synthetic Board displays information about strategy instruments that are not listed on an exchange. These instruments are defined by users of R | Trade Execution Platform<sup>M</sup> and are visible to any user. A synthetic instrument may be composed of instruments of varying types (futures, options on futures, exchange listed strategies) and/or instruments that trade on different exchanges. To create a synthetic instrument, contact the support desk of your FCM, Broker-Dealer or IB.

Synthetic	Board	_ U 4	🇞 - 🍰	📔 🖬 - 🗎	a, <u>Show (</u>	)rder Defaults	
nbol				Market		Market If Touche	
:HE-LE:Q1	Lean Hog	Cattle:Au	gust 11	Buy	Sell	Buy	gger Price
Symbol	Exchange	Weight	Bid Qty	Bid	Ask	Ask Qty	Last
R:1ES:Z1-U1		-	41	-262	-237	20	-262
···· ESZ1	CME	1	41	1192.00	1192.25	20	1192.00
ESU1	CME	-1	133	1197.00	1197.25	110	1197.25
🕂 R:1TF-1ES:U1			1	167			17137
TF FMU0011!	NYBOT	1	1	600.30			770.00
ESU1	CME	-1	133	1197.00	1197.25	110	1197.25
🕂 R:1ES-1YM:U1			8	2610	2627	6	2622
···· ESU1	CME	1	133	1197.00	1197.25	110	1197.25
···· YMU1	CBOT	-1	6	11447	11448	7	11448
🕂 R:2ES-1TF:U1					59695	1	42725
···· ESU1	CME	2	133	1197.00	1197.25	110	1197.25
TF FMU0011!	NYBOT	-1	1	600.30			770.00
🕂 R:1ZB-1ZN:U1			93	8031	8078	34	8046
ZBU1	CBOT	1	93	138'15	138'16	169	138'15
ZNU1	CBOT	-1	51	130'135	130'140	532	130'135
R:5NQ-4ES:U1			3	-18625	-18550	4	-18600
···· NQU1	CME	5	17	2208.25	2208.50	20	2208.50
ESU1	CME	-4	133	1197.00	1197.25	110	1197.25
🗀 R:2ZN-3ZF:U1			25	-110125	-110046	235	-110125
ZNU1	CBOT	2	51	130'135	130'140	532	130'135
EFU1	СВОТ	-3	706	123'205	123'210	273	123'210

To view composition and price information about a synthetic instrument, enter its id in the box labeled Symbol at the top of the Synthetic Board window and press Enter. If you do not know its id you may look it up by double clicking in the Symbol box. The Synthetic Board window will then display the Add Symbol screen showing all synthetic symbols known to R | Trade Execution Platform<sup>™</sup>. To add a synthetic symbol to the Synthetic Board, select a symbol and click on the Add button or merely double click on the symbol you wish to add. You may sort the rows in the Add Synthetic Instrument window by clicking on the column headings. Click on the Close button to close the Add Symbol screen.



[ Add Symb				
ind Synthetic view with a symbols found. Search	<ul> <li>Symbol</li> <li>Description</li> <li>begins with</li> </ul>		9	
Symbol	Description	Exchange	Product	Expiration A
R:1RB-1H0:Q1	RBOB GAS NY - HEATING	SYN	SYN	Jul-11
R:1CL-1BRN:U1	CRUDE OIL - BRENT CRUDE:SEPT 11	SYN	SYN	Aug-11
R:HE-LE:Q1	LEAN HOG - CATTLE:AUGUST 11	SYN	SYN	Aug-11
R:1RB-1CL:U1	RBOB GAS NY - CRUDE OIL:SEPT 11	SYN	SYN	Aug-11
R:1H0-1CL:U1	HEATING OIL - CRUDE OIL:SEPT 11	SYN	SYN	Aug-11
R:CL-WBS:U1	CRUDE OIL:NYMEX - ICE:SEPT 2011	SYN	SYN	Aug-11
R:1CL:U1-V1	1 CRUDE OIL:SEPT 11 - OCT 11	SYN	SYN	Aug-11
R:1RB-1H0:U1	RBOB GAS NY - HEATING OIL:SETP 11	SYN	SYN	Aug-11
R:CL:2U1-1V1	CRUDE 0IL:2 SEPT 11 - 1 0CT 11	SYN	SYN	Aug-11
R:16A-16J:U1	AUD - JPY:JUNE 11	SYN	SYN	Sep-11
R:1EMD-1TF:U1	1 S&P MIDCAP 400 - 1 RUSSELL:SEPT	SYN	SYN	Sep-11
R:1ES-1YM:U1	1 S&P - 1 DOW:SEPT 11	SYN	SYN	Sep-11
R:1ES:Z1-U1	1 S&P:DEC 11 - SEPT 11	SYN	SYN	Sep-11
R:1FESX-1ES:U1	1 EURO STOXX - 1 S&P:SEPT 11	SYN	SYN	Sep-11
R:1FESX-1NQ:U1	1 EURO STOXX - 1 NASDAQ:SEPT 11	SYN	SYN	Sep-11
R:1TF-1ES:U1	1 RUSSELL - 1 S&P:SEPT 11	SYN	SYN	Sep-11
R:ESU1 C1170-ESZ1 C1170	ES LONG 1 SEPT 11.70 CALL SHORT	SYN	SYN	Sep-11
R:1TE-1YM:U1	1 RUSSELL - 1 DOW:SEPT 11	SYN	SYN	Sep-11

The weight of a component of a synthetic instrument indicates the number of contracts (or shares) that would be traded for that component if the synthetic instrument were to be traded. As the synthetic instrument itself is not tradable on an exchange, trading the synthetic instrument really means trading its components. Effectively the Synthetic Board enables you to trade a synthetic instrument by issuing orders to trade its components, weighted accordingly. By definition, the Synthetic Board will issue orders to buy components that have positive weights and to sell components that have negative weights when instructed to buy a synthetic instrument. Conversely it will issue orders to sell components that have negatives weights when instructed to sell a synthetic instrument.

If you right click on a line in the synthetic board that contains a synthetic instruments' id a small menu will pop up. Select Show Order Book to display an Order book for the synthetic instrument or select Delete to remove it from the Synthetic Board. **Note: An order book for a synthetic instrument is not capable of placing orders for the synthetic instrument.** 

1

Rithmic 01 Test Sim : S	,	-					
🍍 Synthetic	Board	l <del>.</del> 9	🔈 - 🍰	👔 🖻 - [	a, <u>Show C</u>	)rder Defaults	
/mbol				Market		Market If Touche	
R:HE-LE:Q1	Lean Hog	- Cattle:Aug	ust 11	Buy	Sell		gger Price 675 🍦 Sell
Symbol	Exchange	Weight	Bid Qty	Bid	Ask	Ask Qty	Last
R:1ES:Z1-U1			11	-275	-212	66	-212
R:1TF-1ES:U1			1	179			17162
TF FMU0011!	NYBOT	1	1	600.30			770.00
ESU1	CME	-1	679	1196.75	1197.00	823	1196.75
R:1ES-1YM:U1			6	2612	2630	4	2617
···· ESU1	CME	1	679	1196.75	1197.00	823	1196.75
···· YMU1	CBOT	-1	4	11444	11445	6	11444
R:2ES-1TF:U1		Order	Book		59670	1	42675
··· ESU1	CME			1196.75	1197.00	823	1196.75
TF FMU0011!	NYBOT	Delete		600.30			770.00
R:1ZB-1ZN:U1			24	8125	8171	28	8156
R:5NQ-4ES:U1			1	-18600	-18525	5	-18525
··· NQU1	CME	5	8	2208.00	2208.25	29	2208.25
ESU1	CME	-4	679	1196.75	1197.00	823	1196.75
R:2ZN-3ZF:U1			2	-110125	-110070	2	-110093
···· ZNU1	CBOT	2	28	130'135	130'140	4	130'140
L ZFU1	CBOT	-3	66	123'207	123'210	8	123'210

### **Trading a Synthetic Instrument**

Once you have set the Quantity, Duration and Account for your trade, you may buy or sell a synthetic instrument at its calculated market price (more specifically, you may buy or sell the components of the synthetic instrument at each component's current market price) by selecting the row that displays the synthetic instrument you wish to trade (highlighting it) and then by clicking on the Buy or Sell button in the box labeled Market in the middle of the top part of the Synthetic Board.

You may condition the purchase or sale of a synthetic instrument by entering a trigger price in the box labeled Trigger Price and then by clicking on the Buy or Sell button in the box labeled Market If Touched. Market if touched orders will then be submitted to and held by R | Trade Execution Platform<sup>™</sup> for each of the components until one of the following conditions is met (at which time the held orders will be submitted to the exchange):

- If the transaction type is Buy, market orders for the components will be submitted to the exchange when the offer price of the synthetic instrument is less than or equal to the trigger price; or
- If the transaction type is Sell, market orders for the components will be submitted to the exchange when the bid price of the synthetic instrument is greater than or equal to the trigger price.

The Market If Touched orders are sent as an OCO order with the condition that if one is cancelled then all are cancelled.



# **Trade menu options**

From the Trade menu you may bring up an order entry ticket (the Place Order window), configure and manage drip orders, search for instruments to trade and view the easy to borrow list.



### **Place Order**

The Place Order window is an order ticket. From this window you may configure and place market, limit, stop and if touched orders.

🖗 Place Order		<b></b>
Account Ex Rithmic3 (Rithmic Account 3, Prospects) V	change Duration ME	E-Mini S&P 500
Buy/Sell Qty Symbol	Price Type Limit Price Stop Price Price Field Ticks	
Sell 🗸 6 🛟 ESZ1	▼ Stop Limit ▼ 1228.25 ↓ 1228.25 ↓ <b>V Trail By Bid Price</b> ▼ 1	÷
Hide more options		
Use Max Show Qty		-
Use Account Templates	V Cancel At (EDT) 2011-11-08 15:59:55 💠 000000 🗘 µs	
	Cancel After	
Close when done	Place Order	Close

You may specify a date and time for a new order to be released, you may instruct R | Trade Execution Platform<sup>™</sup> to cancel the unfilled portion of that order at a specified time and/or after a specified number of seconds have elapsed since it was submitted to the exchange. If you



have access to several accounts, you may use this window to indicate that the quantity to be filled should be split across several orders according to the contents of a specified template.

#### Account

Select the account on which the order is to be placed. Only the accounts for which you have permission to trade are displayed in the Account drop down box.

#### Exchange

Select the id of the exchange or other trading venue on which you would like to place an order. Refer to **Appendix C** for a list of exchange and other trading venue ids. The Exchange drop down box may show all the exchanges to which R | Trade Execution Platform<sup>M</sup> is connected (not just the exchanges on which you may trade).

#### **Duration**

Select the duration of the order to be placed. The Duration drop down box displays all the durations applicable to the instrument to be order that are supported by R | Trade Execution Platform<sup>TM</sup>. Refer to **Appendix B** for details.

#### **Routing Instructions**

Some exchanges require routing instructions to accompany an order. If you select such an exchange then a drop down box will appear from which you may select appropriate routing instructions.

😺 Place Order		
Account Exchange Du Rithmic3 (Rithmic Account 3, Prospects)	AY Routing In BATS	structions CISCO SYSTEMS INC
Buy/Setl Qty Symbol Buy	BATS, the	AL All and Recycle AMEX
Close when done	BATS, the BATS, the BATS, the BATS, the BATS, the BATS, the	Boston BYX CBOE Place Order

#### Trans

Select the transaction type of the order to be placed. The Trans drop down box displays all the transaction types supported by R | Trade Execution Platform<sup>M</sup>.

**Note**: Not all transaction types are applicable to all instruments. For example, Sell Short is not applicable to futures. Also, some accounts may be restricted from using certain transaction types. For example, IRA accounts may not be permitted to Sell Short.

#### Qty

Enter the size of the order to be placed. You may change the size directly or by clicking on the up and down arrows.



#### **Symbol**

Select the symbol that corresponds to the instrument you would like to trade. If that symbol is not in the Symbol drop down box, type it in.

#### **Price Type**

Choose the price type of the order you would like to place. The Price Type drop down box shows all the price types supported by R | Trade Execution Platform<sup>TM</sup>. Refer to **Appendix B** for details.

#### **Limit Price**

Upon the selection of a price type that involves a limit price a Limit Price box appears to the right of the Limit Price box. If the order is a buy order, the Limit Price box is populated with the current best ask price of the symbol to be traded. If the order is a sell order, the Limit Price box is populated with its current best bid price. You may change the limit price directly or by clicking on the up and down arrows. Clicking on the up and down arrows moves the price by 1 tick per click.

### Stop Price 🧲

Upon the selection of a price type that involves a stop price, a Stop Price box and a Trail By check box appear to the right of the Price Type box, leaving enough room for a Limit Price box to appear between them should the price type also require a limit price. If the order is a buy order, the Stop Price box is populated with the current best ask price of the symbol to be traded. If the order is a sell order, the Stop Price box is populated with its current best bid price. You may change the stop price directly or by clicking on the up and down arrows. Clicking on the up and down arrows moves the price by 1 tick per click.

If you would like the stop price to trail the instrument's bid, offer or last trade price check the Trail By box and a Price Field box and a Ticks box will appear. Select the price that and the number of ticks from that price that you would like the stop to trail.

🚱 Place Order								×
Account Rithmic3 (Rithmic Acc Buy/Sell Buy • Show more options	Qty	Symbol	Exchange BATS 🗸	Duration DAY Price Type Stop Market	Routing Instru BATS, then All	Stop Price	Price Field	CISCO SYSTEMS INC
Close when done							Place	e Order

#### **Use Max Show Qty**

Check the Use Max Show Qty box if you would like to submit an iceberg order. Enter in the maximum quantity for the exchange to show on your order in the box directly or by clicking on the up and down arrows.



#### **Use Account Templates**

If you have access to multiple accounts and you check the Use Account Templates box you may select an account template to be applied to the order. When you click on the "Place Order" button, instead of releasing one order R | Trade Execution Platform<sup>™</sup> will release one order for each account in the template that has a no-zero Qty Ratio, configured identically except that the quantity of each order will be pro-rated according to the Qty Ratio associated with the account on the order.

😥 Place Order			
Account Exchan Template: 3 Rithmic Accounts BATS		Routing Instructions BATS, post only	CISCO SYSTEMS INC
Buy/Sell Qty Symbol Buy 600 CSCO	Price Type Peg to NBBO Midpoin	Limit Price	
Use Max Show Qty	Release At (EDT)		
	🔲 Cancel After		
☑ Close when done			Place Order
	G Configure Account 1	lemplates	X
	Template 3 Rithmic	Accounts 👻	Save Delete
	<u>Clear All</u>		Show all accounts
	Account	🛆 Account Name	Qty Ratio
	Rithmic1	Rithmic Account 1	1
	Rithmic2 Rithmic3	Rithmic Account 2 Rithmic Account 3	2 3

For example, when a place order window shows the order configured as above, using the template above, clicking on "Place Order" will submit 3 orders. The difference between the orders will be that the order for account Rithmic1 will have a quantity of 100 shares, the order for account Rithmic2 will have a quantity of 200 shares and the order for account Rithmic3 will have a quantity of 300 shares.

**Note**: If any order in a group generated by using account templates is rejected by R | Trade Execution Platform<sup>TM</sup> (risk limits exceeded, ...) all of the orders in that group will be rejected.

#### **Release At**

If you would like to specify the date and time at which R | Trade Execution Platform<sup>M</sup> should release the order check the Release At box and check the radio button on the left of the boxes



showing a date and time. For example, if you would like R | Trade Execution Platform<sup>™</sup> to release the order at 9:30:05am New York time on November 21, 2011, and the time zone displayed on the right of "Release At" is CST (central standard time) as you fill out the Place Order window, set the date and time in the Release At box to 2011-11-21 08:30:05 (which corresponds to 9:30:05am New York time).

Alternatively you may direct R | Trade Execution Platform<sup>™</sup> to release the order when it receives a message indicating that the symbol has entered a particular trading state (its market mode). For example, if you would like R | Trade Execution Platform<sup>™</sup> to release the order at market open, check the Release At box, check the radio button to the left of the box showing a market mode and select "Open" from that box's drop down list.

**Note:** The time zone of the time in the box is always the time zone of your machine (local time) and is displayed to the right of "Release At".

**Note:** If the Release At box is unchecked, then, upon clicking the Place Order button, the order will be released to the exchange or trading venue as soon as possible.

#### **Cancel At**

If you would like to specify the date and time at which R | Trade Execution Platform<sup>™</sup> should cancel the unfilled portion of an order check the Cancel At box and select the time at which the balance of the order is to be cancelled. For example, if you would like R | Trade Execution Platform<sup>™</sup> to cancel the order at 3:59:55pm New York time on November 21, 2011, and the time zone displayed on the right of "Release At" is CST (central standard time) as you fill out the Place Order window, set the date and time in the Cancel At box to 2011-11-21 14:59:55 (which corresponds to 3:59:55pm New York time).

**Note:** The time zone of the time in the box is always the time zone of your machine (local time) and is displayed to the right of "Cancel At".

#### **Cancel After**

Check the Cancel After box if you would like R | Trade Execution Platform<sup>™</sup> to cancel the unfilled portion of an order after a specified number of seconds since that order was submitted to an exchange or trading venue. Enter in the specified number of seconds directly in the box or you may set/change the specified number of seconds by clicking the up and down arrows.

#### **Close when done**

Check this box if you would like the Place Order window to automatically close after you click on the "Place Order" button. Otherwise the window will remain open (so you do not have to launch it each time you place an order).

#### **Place Order and Close Buttons**

Click the "Place Order" button to submit the order (and close the Place Order window if the Close when done box is not checked). Click the "Close" button to close the Place Order window without placing the order.



#### If Touched Orders

If the price type of the order to be placed is an "If Touched" price type then the Place Order window expands to display selections that pertain to if touched orders under the heading "Release Order When". Refer to **Appendix B** for details.

Place Order	<b>— X —</b>
Account Exchange Duration Rithmic1 (Rithmic Account 1, Prospects) VYMEX DAY	Light Sweet Crude Oil
Buy/Sell Qty Symbol Price Type Limit Price Buy 3 CLV1 V Limit if Touched 99.22 C Show more options	
Release Order When       Price Field     Symbol       Offer Price ▼     of       WBS FMV0011!     ▼       on     ICE ▼       is     >= ▼       79.24	
Close when done	Place Order

#### **Price Field**

Select the type of price to be used as part of the evaluation to release the "If Touched" order. The Price Field drop down box shows all the fields whose prices may be used as part of the release evaluation. See **Appendix B** for details.

#### Symbol

Type in the symbol that corresponds to the instrument whose price (as indicated in the Price Field box) should be used to evaluate whether or not the "If Touched" order should be released. This symbol need not be the same as the symbol that corresponds to the instrument to be traded.

#### Exchange

Select the exchange or other trading venue on which the instrument, whose price is to be used to evaluate whether or not the "If Touched" order is to be released, trades. Refer to **Appendix C** for a list of exchange and other trading venue ids. The Exchange drop down box shows all the exchanges to which R | Trade Execution Platform<sup>M</sup> is connected (not just the exchanges on which you may trade). See **Appendix B** for details.

#### Condition

Select the condition (a logical comparison) to be used to evaluate whether or not the "If Touched" order is to be released. The Condition drop down box shows all the conditions supported by R | Trade Execution Platform<sup>M</sup>. See **Appendix B** for details.

## Price 🖉

Enter the price to be used as part of the evaluation to release the "If Touched" order.



### **Drip Orders**

Drip orders are orders that are identical (except for their price if a limit price is specified) which are submitted automatically at regular intervals. On the Drip Orders window you may configure a new drip order and you may view the drip order parameters of all drip orders for the accounts to which you have access.

Rithmic 01	Test Sim : Drip Or	ders												
会 Drij	<b>o</b> Orders	le 🐁 -	- 8- 1	1 <u>r</u> -	<b>[a,</b> -									
Symbol.Exch 6SZ1.CME	ange		Franc			Rithmic Account 3	, Prospects)							
Buy/Sell Buy	Qty 0	Limit/Market Limit		Price Field Offer Price										
Duration DAY	Cancel After 0	Max Show Qua 0	ntity											
Drip Interval 1	Start Dripping 11:36:44	Stop Dripping 12:36:44					<u>C</u> rea	te Drip Orde						
										Enable All Drip Or	ders <u>D</u> i	sable All Drip Ore	lers	
Drip Id	Status	Remarks I	Interval	Start Time	End Time	Symbol	Account	Buy/ Qty Sell F	To ill Price Ty	/pe Price Field	Price Ticks	FCM Id	IB Id	User Id
0	Enabled Enable	d by New User	1 0	6:25:35	16:25:35	ESU1	Rithmic1		1 M			Rithmic-FCM	Prospects	
1	Disabled Disable	ed by New User	1 1	2:25:35	14:29:59	ESU1	Rithmic1		1 L	Bid Price		Rithmic-FCM	Prospects	
2	Enabled Enable	d by New User	1 0	5:25:35	14:25:35	YMU1	Rithmic1		1 L	Bid Price		Rithmic-FCM	Prospects	
3	Disabled Disable	ed by New User	1 0	9:25:35	23:25:35	YMU1	Rithmic1		1 L	Bid Price		Rithmic-FCM	Prospects	
4	Enabled Enable	d by New User	1 2	3:25:35	22:25:35	YMU1	Rithmic1		1 L	Last Price		Rithmic-FCM	Prospects	
5	Disabled Disable	ed by New User	1 0:	2:25:35	23:35:35	YMU1	Rithmic1		1 L	Bid Price		Rithmic-FCM	Prospects	
6	Disabled Disable	ed by New User	1 2	1:19:14	19:19:14	ESU1	Rithmic3		1 L	Offer Price		Rithmic-FCM	Prospects	
					00-10-15	ESU1	Rithmic3	в	1 M			Rithmic-FCM	Prospects	
7	Disabled Time E	xpired	1 2	3:19:15	00:19:15	ESUI	Nichilles	U	1 m			Totaline Fem	Hospetts	

A drip order may be enabled (active) or disabled by any user who has access to the account of the drip order. The scope of the lifetime of an enabled drip order is the current trading session (or the next trading session if the market is closed when a drip order is enabled). Regardless of when a drip order is enabled or the time when its dripping is set to end, **a drip order will be disabled automatically upon receipt by R | Trade Execution Platform<sup>™</sup> of a message indicating that the current trading session has closed.** 

#### **Creating a Drip Order**

You may configure an order through the Drip Order window as you would configure any other order (see the section on the Place Order window) with a few exceptions:

#### **Buy/Sell**

Select Buy or Sell. Other transaction types are not supported.

#### Limit/Market

Select Limit or Market. Other price types are not supported. If "Limit" is selected then a drop down box for Price Field and for Tick Offset will appear.

#### **Price Field**

Select a price from the Price Field drop down menu. If the price type selected is "Limit" then the price at which an order will be dripped (submitted) will be based upon the price as selected in the Price Field at the time the order is to be dripped,



adjusted for the number of ticks in the Tick Offset field. For example, if a drip order has a price type of Limit and its Price Field is Bid Price and its Tick Offset is -1, then when an order is dripped it will have a price equal to 1 tick less than the bid price at the time the order is to be dripped.

#### **Tick Offset**

You may set the tick offset directly or by clicking on the up and down arrows. If the price type selected is "Limit" then the price at which an order will be dripped (submitted) will be based upon the price as selected in the Price Field at the time the order is to be dripped, adjusted for the number of ticks in the Tick Offset field. For example, if a drip order has a price type of Limit and its Price Field is Bid Price and its Tick Offset is -1, then when an order is dripped it will have a price equal to 1 tick less than the bid price at the time the order is to be dripped.

#### **Use Account Templates**

Not supported.

#### **Drip Interval**

Enter the interval (frequency) at which orders are to be dripped (submitted) into the market.

#### **Start Time**

Enter the time (local time as per your computer's time zone) at which orders may begin to be dripped (submitted). The scope of the lifetime of an enabled drip order is the current trading session (or the next trading session if the market is closed when a drip order is enabled).

#### **End Time**

Enter the time (local time as per your computer's time zone) at which dripping should be stopped. The scope of the lifetime of an enabled drip order is the current trading session (or the next trading session if the market is closed when a drip order is enabled).

Once all the parameters for a drip order have been set, click on the Create Drip Order button to create the drip order.

When a drip order is created it is in a disabled state. To start dripping an order you will need to enable it. A drip order will not start dripping unless it is in an enabled state.

Drip orders have been designed to be used daily, i.e. the orders that are dripped today, may be dripped tomorrow without having to be reconfigured. When a drip order is created it is stored in R | Trade Execution Platform<sup>TM</sup> so that the state and submission of a drip order will continue as appropriate, even if you log out or lose your connection to R | Trade Execution Platform<sup>TM</sup>.

#### **Deleting a Drip Order**

You may delete a drip order by right clicking on it and selecting Delete.



#### **Disabling a Drip Order**

You may Disable a drip order by clicking on the entry in status column (where it shows **Enabled**) or by right clicking elsewhere on the drip order and selecting Disable. A drip order will be disabled automatically upon receipt by R | Trade Execution Platform<sup>™</sup> of a message indicating that the current trading session has closed.

#### **Disabling all Drip Orders**

You may disable all drip orders by clicking on the "Disable All Drip Orders" button.

#### **Enabling a Drip Order**

You may enable a drip order by clicking on the entry in status column (where it shows **Disabled**) or by right clicking elsewhere on the drip order and selecting Enable.

#### **Enabling All Drip Orders**

You may enable all drip orders by clicking on the "Enable All Drip Orders" button.

#### **Modifying a Drip Order**

You may modify the drip interval (frequency of order submission), the start and end times, the price field and tick offset of a drip order by clicking on the parameter you wish to change and entering a new value of that parameter.



## **Search Symbol**

See Appendix D.



### **Easy to Borrow List**

The Easy to Borrow List is a list of symbols for stocks whose shares your broker-dealr has a reasonable expectation to be able to borrow.

Rithn	nic 01 Test S	im : Easy to Borrow Li	st			
٢	Easy	to Borrow Lis	it 🚺	) 🗞 - 🍰	🧰 🖻 - 🕻	a, 👻
	Symbol (2)	🔶 🛛 Qty Availa	ble	Qty Needed	Borrowable? (1)	$\nabla$
ZINC			7154900		Yes	
ZION			7921100		Yes	
ZIXI			178200		Yes	
ZMH		1	6646600		Yes	
ZOLL			2908100		Yes	
ZOLT			168100		Yes	
Z00G			360500		Yes	
ZQK		1	0540100		Yes	
ZRAN			4371100		Yes	
ZUMZ			795900		Yes	
22			254800		Yes	
AAME			42500		No	
AAT			3297400		No	
AAUK	F		113700		No	
AB			37100		No	
ABH			573100		No	
ABLZI	F		227200		No	
Orde		Price 😑 History		Ho	n, Sep 12, 2011 03:18:	34 pm E

In the picture above, the easy to borrow list is sorted first by whether or not a symbol is borrowable and then alphabetically by symbol.



# Window menu options

The Window menu provides you with several ways to arrange the open windows. It also provides you with a way to close all windows, view processing exceptions detected by R | Trader<sup>M</sup>, view the history of order alerts and set window and application preferences.

ile Trade	Wind	ow Help		
aunch	1	Tile Horizontal	×	
Î		Tile Vertical Cascade	1 the second sec	
ecent Orders		Exception Watcher Order Alert History Fill Alert Trapper Preferences Launch Bar	Order Book	
		Minimize Children Maximize Children	The second se	
Future Strategies		Restore Children Close All Windows	Market Data Trade History	

### **Exception Watcher**

R | Trader<sup>™</sup> records the details of processing exceptions it detects about itself. A listing of such exceptions can be viewed by selecting Exception Watcher from the window menu. If a processing exception occurs, you may view its history in this window and then report the exception to Rithmic Operations Support.

### **Order Alert History**

The Order Alert History window shows orders that failed or were rejected similarly to such orders shown in the Actual Orders window. This information is available in the Actual Orders window as well, but for ease of monitoring only failed or rejected orders, this window has been provided.



### **Preferences**

You may customize various window and application settings through the Preferences window.

Preference	s					×		
General	Performance	Alerts	RMS	Shortcuts	Sounds	Colors		
Common	Windows							
ALWi	ndows							
	Hide inactive	account	s					
	Show system i	name in	the title					
	Confirm closir	ng						
Sy	mbol-Exchange	esepara	tor	•				
M	in column widt	h		12 🌲				
V V Pr	Main Window  Suppress scrollbars  Lauch new windows within main window  Auto-resize windows within main window  Confirm exit application  Price Feed message rate interval (secs)  5  10  5  N0  5  Show order status in the status bar							
V	Settings   Close current   Save settings			applyingse	ttings fro	m a file		
	ng Orders   Remove focus   Close Place Or					ewhere		
Restore T	Tab Defaults	(	<u>о</u> к	<u>C</u> ar	icel	Apply		



#### Performance

Sometimes the rate at which market data is sent to and displayed by R | Trader<sup>™</sup> is faster than can be discerned by the human eye. If the human eye cannot see all the updates then the trader cannot react to all of them. CPU cycles (of which there are a finite number on any machine) spent on displaying all market data updates, when not all can been seen, may be better spent by R | Trader<sup>™</sup> on other tasks or by other applications, especially as market data rates seem to keep increasing.

You may reduce the amount of CPU used by the Quote Board and Order Book windows by moving the sliders in the Performance tab of the Preferences window. The lower the slider, the less frequent these windows will update and the less CPU they will use. By default the sliders are set to limit these windows to update no more than 10 times per second.

Prefere	ences	;						×
Gen	eral	Performan	ce	Alerts	RMS	Shortcuts	Sounds	Colors
Ger	neral	]						
- N	Nax Up	pdates/Sec	ond					]
	Quo	te Board			o	rder Book		
		No	Max			No	Max	
		-	-			-	-	
		-	- 8	80		-	- 80	
		60 -	-			60 -		
		-	- 4	40		-	- 40	
		20 -	-			20 -	-	
		_	_			_	_	
0	Currei	nt Setting:	10		с	urrent Settir	ng: 10	
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	Ga	ateway Or	der		• <u>•</u>	ling		
Rest	ore Ta	ab Defaults	]	(	<u>о</u> к		ncel	Apply



In addition to providing unfiltered market data, some deployments R | Trade Execution Platform<sup>™</sup> are configured to provide aggregated market depth and best bid/ask updates on a separate channel (the aggregated channel). When so configured, R | Trade Execution Platform<sup>™</sup> forwards best bid/ask and market depth updates periodically on the aggregated channel while still forwarding all (i.e. unfiltered) market data updates on the regular channel. Consequently, the aggregated channel requires less CPU to process and publish market data and less bandwidth to transport the published market data. Likewise recipients of aggregated market data require less bandwidth to receive it and less CPU to process and display it.

If R | Trader<sup>TM</sup> detects that the market depth updates and the best bid/ask updates it receives are aggregated by R | Trade Execution Platform<sup>TM</sup> then the sliders will show **No Max** for the Current Setting and the ability to adjust them will be disabled.

Preference	5					
General	Performan	ce Alerts	RMS	Shortcuts	Sounds	Colors
General	]					
Max U	pdates/Sec	ond				
Que	otes		C	order Book		
	No /	Max		No	Max	
		_		- [	_	
	-	- 80		-	- 80	
	60 -	-		60 -		
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Restore T	ab Defaults	]	<u>о</u> к		ncel	<u>A</u> pply



Note: At the time aggregated best bid/ask and market depth updates are published they are as current as the corresponding market data from the non-aggregated (unfiltered) channel.

Note: R | Trade Execution Platform<sup>™</sup> does not aggregate last trade price and size (also known as most recent trade price and size).

Contact your FCM, Broker-Dealer or IB's support group to find out how to get access to aggregated market depth and aggregated best bid/ask updates.

#### **Launch Bar**

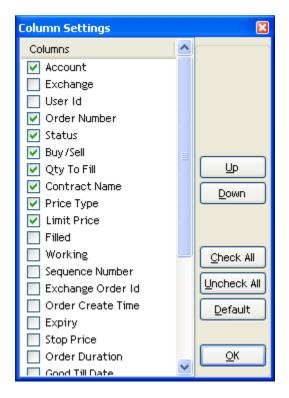
You may toggle the display of the launch bar by checking and un-checking the launch bar option of the window menu.



# Appendix A – Setting and Saving Window Properties, Filtering, Saving and Sorting Data

#### **Customizing Columns**

You may configure the display of data in columns for many of the windows. Right click on the column header line and a small window will pop up and display several options. Clicking on "Add/Remove Columns" will bring up a "Column Settings" window, pictured below.



Data for columns which are checked will be displayed; data for unchecked columns will not be displayed. Clicking on a column in "Column Settings" will allow you to arrange the order in which columns are displayed (left to right) by moving the column name up or down in the "Column Settings" window (this change is applied as you click). You may also arrange the columns of a window by clicking on the column header you wish to move and dragging it to the desired position. Clicking (left clicking) on a column header will sort the rows by that column.

#### **Sorting Data in Columns**

You may sort the data in a window by clicking on a column heading. Subsequent clicks will toggle the sort between ascending order, descending order and no sort order (data presented as it was sorted prior to clicking on the column heading). You may apply subordinate sorting criteria (sort by column 1, then by column 3, then by column 2, ...) by clicking on a column heading and then by clicking on additional column headings while holding down the shift key. When subordinate sorting criteria is applied, each column heading to which sorting and subordinate sorting criteria have been applied will be identified with a number indicating its



precedence in the sort (1 having the highest precedence and applied to the column whose heading was clicked first).

#### **Filtering Rows**

Several windows organize their data by account and/or by user id. If you have access to multiple accounts you may wish to configure some windows to show activity for specific accounts and/or for specific users. Use the drop down selection box (or boxes as the case may be) to select "All" or "Filtered". Selecting "ALL" will display all accounts (or users as the case may be) while selecting "Filtered" will bring up a selection window through which you may indicate which accounts (or users as the case may be) whose information you wish to view.

Advanced filtering by order number, order size or order type can be applied to each window (or to each pane within a window separately) by clicking on the  $\square$  and  $\square$  icons located near the top left corner of each window (or pane).

#### **Saving Window Settings and Properties and Saving Data**

Each window has its own settings and properties that you can configure. You may save these settings either to your local machine or to the network. At the top of each window a set of icons are displayed that when selected, enable you to modify and save a window's various properties and settings, export its data to a .csv file or toggle the organization and display of a window's data between panes and tabs.



Release the window from the Main Console and allow it to be placed anywhere on the screen by clicking on the paperclip icon.



Save a window's settings by clicking on the cog icon with a picture of a floppy disk.



Restore a window's default settings by clicking on the cog icon with an arrow.

Clone a window by clicking on the icon of 2 sheets of paper.

Manage the fonts, foreground and background colors and grid lines of a window by clicking on the icon with the letter "T".



Save the data content of a window to a .csv file by clicking on the icon with the letter "a" followed by a comma.



Toggle the organization and display of a window's data between panes and tabs.

#### **Grid Lines**

Most of the windows display some of their data in a grid format though grid lines may not always be visible by default. To adjust the position of the grid lines click on a row of the grid and hold down the Ctrl key. Press the up arrow key to move the gridlines up. Press the down arrow key to move the grid lines down.



# Appendix B – Price Types, Order Duration and Market Mode

#### **Price Types**

#### Limit

An order with a price type of Limit requires a price to be submitted as part of the order. This price, known as the limit price, indicates the maximum price the trader will pay on a buy order, and the minimum price at which the trader will sell on a sell order.

#### Limit If Touched

An order with a price type of Limit If Touched is a limit order which is held by R | Trade Execution Platform<sup>™</sup> and submitted to the exchange once a particular price of a specified contract or instrument (the trigger symbol) meets a specified value (the trigger value). The trigger symbol need not be the same as the contract or instrument of the limit order. For example:

Buy 10 ESM8.CME at 1300.00 Limit if Touched, Bid Price of YMM8.CME  $\geq$  12300 means that R | Trade Execution Platform<sup>TM</sup> will submit a limit order to the CME to buy 10 contracts of ESM8 at a price of 1300.00, once the bid price of YMM8 at the CME meets or exceeds 12300.

The valid trigger conditions are:

- != (not equal to)
- < (less than)
- <= (less than or equal to)
- = (equal to)
- >= (greater than or equal to)
- > (greater than)

The valid compare fields are: Bid Price Last Price (Last Trade Price) Offer Price (Ask Price)

The trigger symbol and the contract or instrument to be traded need not be the same. Additionally, the trigger symbol need not be a tradable (real) contract or instrument. For example, if R | Trade Execution Platform<sup>™</sup> provides real time index values or synthetic instrument price calculations, the symbols identifying such indices and/or synthetic instruments can be used as trigger symbols.

#### Market

An order with a price type of Market is an order that will be filled by the exchange at the best available price. A buy order will be filled at the best available offer price and a sell order will be filled at the best available bid price.

When the quantity on a Market order is greater than the quantity available at the best price, not all exchanges treat the unfilled balance of the Market order the same way. Some exchanges convert the balance of the unfilled Market order to a Limit order at the price at which the Market order was partially filled; others may continue to fill the Market order at the next best prices until the Market order is filled completely. While other exchanges may continue to fill the Market order at the next best prices until it is filled completely, subject to some limits on the prices (offering some price protection for trading contracts or instruments that have thin and sparse sizes on their order book). Refer to an exchange's website for information on how it treats the balance of unfilled market orders.

**Note:** Some exchanges (or other trading venues) do not support Market orders and some exchanges do not support Market orders for certain instrument types. Where a Market order is not supported by an exchange (or other trading venue) natively, R | Trade Execution Platform™ may simulate a Market order by sending a limit order with a price equal to an instrument's current best price offset by a specified number of ticks. For a buy order the limit price will be equal to the instrument's current best offer price, as known to R | Trade Execution Platform™ at that instant, plus a specified number of ticks. For a sell order the limit price will be equal to the instrument's current best bid price, as known to R | Trade Execution Platform<sup>™</sup> at that instant, minus a specified number of ticks. The specified number of ticks by which a best price is offset is determined by you FCM, Broker-Dealer or IB. See below for a list of exchanges and other trading venues that do not support Market orders.

### Market If Touched 🕅



An order with a price type of Market If Touched is a market order which is held by R | Trade Execution Platform<sup>™</sup> and submitted to the exchange once a particular price of a specified contract or instrument (the trigger symbol) meets a specified value (the trigger value). The trigger symbol need not be the same as the contract or instrument of the limit order. For example:

Sell 5 CLK8.NYMEX Market if Touched, Offer Price of UHO FMK0008!.ICE <= 3.2221 means that R | Trade Execution Platform<sup>™</sup> will submit a market order to the NYMEX to sell 5 contracts of CLK8, once the offer price of UHO FMK0008! at the ICE meets or drops below 3.2221.

The valid trigger conditions are:

- != (not equal to)
- (less than) <
- (less than or equal to) <=
- = (equal to)
- >= (greater than or equal to)
- (greater than) >

The valid compare fields are: **Bid Price** Last Price (Last Trade Price) Offer Price (Ask Price)

The trigger symbol and the contract or instrument to be traded need not be the same. Additionally, the trigger symbol need not be a tradable (real) contract or instrument. For example, if R | Trade Execution Platform<sup>™</sup> provides real time index values or synthetic instrument price calculations, the symbols identifying such indices and/or synthetic instruments can be used as trigger symbols.

#### **Stop Limit**

An order with a price type of Stop Limit is a limit order that is held by the exchange and inserted into an instrument's order book once that instrument trades at or worse than a specified price (the stop price). For example:

Buy 6 ESU8.CME at 1300.25, Stop Limit at 1299.75





means that the CME will enter an order to buy 6 ESU8 with a limit price of 1300.25 into the ESU8 order book when ESU8 trades at the CME at a price of 1299.75 or higher. Similarly:

Sell 7 NQM8.CME at 1825.00 Stop Limit at 1825.75 means that the CME will enter an order to sell 7 NQM8 with a limit price of 1825.00 into the NQM8 order book when NQM8 trades at the CME at a price of 1825.75 or lower.

When a stop is triggered the corresponding Limit order becomes active. A stop is considered to have triggered when an instrument trades at or worse than the stop price (at or worse for a buy order means greater than or equal to the stop price, at or worse for a sell order means less than or equal to the stop price). When constructing a Stop Limit order, the stop price for a buy order should be greater than the current trade price of the instrument and the limit price should be greater than or equal to the stop price; the stop price for a sell order should be less than the current trade price of the instrument and the limit price should be less than the current trade price of the instrument and the limit price should be less than or equal to the stop price. If the stop price were less than or equal to the current trade price for a buy order, the stop would trigger upon receipt of the Stop Limit order by the exchange and the corresponding limit order would become active immediately. Similarly, if the stop price were greater than or equal to the current trade price for a sell order, the Stop Limit order by the exchange and the corresponding limit order would become active immediately. Stop Limit order would become active immediately.

Not all exchanges accept Stop Limit orders and not all exchanges accept Stop Market orders for all instruments. When a Stop Market order is not supported by an exchange R | Trade Execution Platform<sup>™</sup> holds a Stop Market order until the stop triggers and then submits a Market order to the exchange. In contrast to an exchange (which usually compares a stop price with the last trade price), R | Trade Execution Platform<sup>™</sup> considers a stop to have triggered when the offer price of the instrument in a buy order becomes greater than or equal to its stop price and, for a sell order, when the bid price of the instrument becomes less than or equal to its stop price. See below for a list of exchanges and other trading venues that do not support Stop Limit orders.

#### Stop Market 🖨

An order with a price type of Stop Market is a market order that is held by the exchange and inserted into an instrument's order book once that instrument trades at or worse than a specified price (the stop price). For example:

Sell 4 ESZ8.CME Stop Market at 1350.25

means that the CME will enter an order to sell 4 ESZ8 at the market into the ESZ8 order book when ESZ8 trades at a price of 1350.25 or lower. Similarly:

Buy 3 NQU8.CME Stop Market at 1816.75

means that the CME will enter an order to buy 3 NQU8 at the market into the NQU8 order book when NQU8 trades at the CME at a price of 1816.75 or higher.

When a stop is triggered the corresponding Market order becomes active. A stop is considered to have triggered when a instrument trades at or worse than the stop price (at or worse for a buy order means greater than or equal to the stop price, at or worse for a sell order means less than or equal to the stop price). When constructing a Stop Market order, the stop price for a buy order should be greater than the current trade price of the instrument; the stop price for a sell order should be less than the current trade price of the instrument. Otherwise the stops would trigger upon receipt of the Stop Market order by the exchange and the corresponding



market order would become active immediately - some exchanges may reject such Stop Market orders.

When a stop is triggered, some exchanges convert the market order to a limit order (with a limit price based upon a formula specific to that exchange) and enter the limit order into the instrument's order book. Refer to an exchange's website for information on how it treats stop market orders when the stop is triggered.

Not all exchanges accept Stop Market orders and not all exchanges accept Stop Market orders for all instruments. When a Stop Market order is not supported by an exchange R | Trade Execution Platform<sup>™</sup> holds a Stop Market order until the stop triggers and then submits a Market order to the exchange. In contrast to an exchange (which usually compares a stop price with the last trade price), R | Trade Execution Platform<sup>™</sup> considers a stop to have triggered when the offer price of the instrument in a buy order becomes greater than or equal to its stop price and, for a sell order, when the bid price of the instrument becomes less than or equal to its stop price. See below for a list of exchanges and other trading venues that do not support Stop Market orders.

#### **Exchange and Other Trading Venues that do not Support Certain Price Types**

Not all exchanges or other trading venues support all price types and when a price type is supported, it may not be supported for all instrument types (for example, sometimes Market orders are not supported for options). Furthermore, R | Trade Execution Platform<sup>™</sup> may implement its own version of that price type for an exchange or other trading venue whether or not it is supported natively by that exchange or other trading venue.

The table below indicates the exchange and synthetic price types supported by R | Trade Execution Platform<sup>TM</sup>.

Exchange Id	Stop Market	Stop Limit	Exchange Id	Stop Market	Stop Limit
AEX	Synthetic	Synthetic	LIFFE-EQ	Synthetic	Synthetic
BATS	Synthetic	Synthetic	LIFFE	Synthetic	Synthetic
BMF	Synthetic		MATIF	Synthetic	Synthetic
ВҮХ	Synthetic	Synthetic	NLX		Synthetic
CBSX	Synthetic	Synthetic	OSE	Synthetic	Synthetic
EUREX		Synthetic	RTS	Synthetic	Synthetic
FORTS	Synthetic	Synthetic	RTSST	Synthetic	Synthetic
IDEM	Synthetic	Synthetic	SGX	Synthetic	Synthetic
			TDEX		Synthetic

Contact your FCM, Broker-Dealer or IB's support group to find out if an exchange or other trading venue limits its support for certain price types to certain instrument types.



#### **Order Duration**

Order duration, also known as time in force, indicates the maximum time an order can remain open on the books of an exchange. R | Trade Execution Platform<sup>M</sup> supports the following order durations:

Order Duration Id	Order Duration Description
DAY or Day	Any unfilled balance of a Day order is cancelled by the exchange automatically at the close of the trading day on which it was submitted to the exchange.
FOK*	Upon receipt by an exchange, an FOK order (Fill or Kill) is filled completely or, if it cannot be filled completely, it is cancelled in its entirety.
GTC	Any unfilled balance of a GTC order (Good 'Till Cancelled) remains open and on the books of the exchange until specifically cancelled by the trader or until the maximum time allowed by the exchange for a GTC order to remain open has transpired.
ІОС	Upon receipt by an exchange, an IOC order (Immediate Or Cancel) is filled to the extent possible and any unfilled balance, up to and including the entire order, is cancelled.

\* R | Trade Execution Platform<sup>™</sup> supports FOK orders only on the following exchanges/venues: 1C, BMF, BTEC, CBOE, CBOT, CBSX, CFE, CME, COMEX, DME, ICE, ICE-OTC, KCBT, KRCX, MEXDER, MGEX, NLX, NYBOT, NYMEX, SGX, WCE but is not yet available through R | Trader<sup>™</sup>.



#### **Market Mode**

The Market Mode of an instrument indicates the status of its order book at the exchange on which it trades. Each exchange has its own set of market mode indicators and meanings. Some exchanges have one set of market modes for futures and another set of market modes for options on futures. Refer to an exchange's website for information on its market modes. The table below shows the market modes that are common across the exchanges to which R | Trade Execution Platform<sup>™</sup> connects:

Market Mode	Market Mode Description	R   Trade Execution Platform™ Action
Pre-Open	A new trading day will begin shortly for this instrument or trading will resume shortly after a trading halt or trading suspension. Generally, limit orders may be accepted and cancelled but none will be matched until trading matching of the instrument opens.	When a new trading day for this instrument will begin shortly, the previous day's trading statistics for the instrument are cleared: open, high and low trade price, last trade price and size, net change and % change, daily trade volume and positions in all accounts for this instrument are netted and marked to the previous day's close trade price or settlement price.
Open or Normal	Trading matching of this instrument in the new trading day has begun and is proceeding normally.	
End of Day	Trading matching of this instrument for the current trading day has ended.	A final profit and loss message is published for each account that placed an order for this instrument during the current trading day. The best bid price, size and order count and the best ask price, size and order count are cleared. Close trade price is published.



# Appendix C – Exchange and Other Trading Venue Ids

The exchanges and other trading venues to which R | Trade Execution Platform<sup>™</sup> connects may vary from deployment to deployment.

The exchanges and other trading venues to which R | Trade Execution Platform<sup>M</sup> can connect are listed in the following table:

Exchange Id	Exchange Name	Access Line
1C	One Chicago	CBOE
AEX	Amsterdam Exchange	LIFFE
BATS	BATS "Z" Exchange	BATS
BMF	BM&FBOVESPA	Globex
BYX	BATS's "Y" Exchange	BATS
CBOE	Chicago Board Options Exchange	CBOE
СВОТ	Chicago Board of Trade	Globex
CBSX	CBOE Stock Exchange	CBOE
CFE	CBOE Futures Exchange	CBOE
CME	Chicago Mercantile Exchange	Globex
COMEX	COMEX Commodity Exchange	Globex
DME	Dubai Mercantile Exchange	Globex
EUREX	Eurex	Eurex
FORTS	Russian Trading System Futures and Options	RTS
ICE	The Intercontinental Exchange	ICE
ICE-OTC	The Intercontinental Exchange (OTC)	ICE
IDEM	Italian Derivatives Exchange Market	IDEM
КСВТ	Kansas City Board of Trade	Globex
KRX	Korea Exchange	Globex
LIFFE	London International Financial Futures Exchange	LIFFE
LIFFE-EQ	London International Financial Equities Exchange	LIFFE
LME	London Metals Exchange	LME
MATIF	Marché à Terme International de France	LIFFE
MEFF	Mercado Español de Futuros Financieros	MEFF
MEXDER	Mexican Derivatives Exchange	Globex
MGEX	Minneapolis Grain Exchange	Globex
MX	Montreal Exchange New York Board of Trade	MX ICE
NYBOT		
NYMEX NLX	New York Mercantile Exchange NYSE LIFFE US	Globex NYSE LIFFE US
OSE		OSE
RTS	Osaka Stock Exchange Russian Classica Trading System	RTS
RTSST	Russian Standard Trading System	RTS
SGX	Singapore Exchange	SGX
TDEX	Tokyo Derivatives Exchange	TDEX
WCE	Winnipeg Commodity Exchange	ICE



## **Appendix D – Add Symbol**

Several windows that display market data allow you to enter symbols into the window directly or through the Add Symbol window. The left side of the window displays a list of exchanges and venues known to your deployment of R | Trade Execution Platform<sup>™</sup>. The right side of the window allows you to enter criteria that will be applied to your exchange and/or venue selections.

#### Searching for Symbols within an Exchange or within All Exchanges

If you do not know the exchange (or venue) on which an instrument trades, select (highlight) "Exchange" from the list on the left and enter your best guess of the first few (a minimum of 2) letters of the instrument's description in the box on the right. If you do know the exchange on which the instrument trades then select it from the list on the left instead of "Exchange". Click on the search just click on the icon.

😼 Search Symbol							
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BATS		1		Description			
			147 symbols found	Search within these			
			in symbols round.	<u>yearan mann arcyenn</u>			
· CFE	=						Expiration 🔺
-			Symbol	Description	Exchange	Product	Month 🗌
E. CME		►	TREM1	EUR/TRY FUTURES	CME	TRE	Jun-11
E COMEX		_	6EM1	EURO FX	CME	6E	Jun-11
🕀 DME			EADM1	EURO FX/AUSTRALIAN DOLLAR	CME	EAD	Jun-11
🗄 - EUREX			RPM1	EURO FX/BRITISH POUND	CME	RP	Jun-11
FORTS		_	ECDM1	EURO FX/CANADIAN DOLLAR	CME	ECD	Jun-11
FXCM		_	ECKM1	EURO FX/CZECH KORUNA	CME	ECK	Jun-11
FXCM-R			EHFM1	EURO FX/HUNGARIAN FORINT	CME	EHF	Jun-11
GFT		_	DVII4	EUDO EV/TADAMECE VEN	CHE	nv,	lue 44
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						Copy Symbol	Close
i IDEM	-					Zoby symbol	

If you know the instrument type of the instrument you wish to trade then select it from the "Find" drop down box at the top of the window. By default the search will look at an instrument's description when matching the letters entered in the box at the right. You may change the search to look at an instrument's symbol instead of its description by clicking on the radio button to the left of the word "Symbol" as in the picture below.

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	×		

😡 Search Symbol						
🚺 Add S	Sym	bol				
Evchange		Find Futures	whose	kk		3
€ CBOT	Ξ	Symbol	Description	Exchange	Product	Expiration A
		KKJM1	DETROIT APRIL COOLING DEGREE DAY	CME	KKJ	Jul-11
E COMEX		KKKM1	DETROIT MAY COOLING DEGREE DAY	CME	ККК	Jul-11
		KKM1	DETROIT COOLING DEGREE DAY	CME	КК	Jul-11
		KKJN1	DETROIT APRIL COOLING DEGREE DAY	CME	KKJ	Aug-11
FORTS		KKKN1	DETROIT MAY COOLING DEGREE DAY	CME	KKK	Aug-11
FXCM		KKMN1	DETROIT JUNE COOLING DEGREE DAY	CME	KKM	Aug-11
		KKN1	DETROIT COOLING DEGREE DAY	CME	KK	Aug-11
⊕ GFT		< KK104	DETROIT ADDIL COOLING DECREE DAV	CHE		Con 11
	Ŧ				Copy Symbol	Close

#### Searching for Symbols within a Product Group of an Exchange

If you know the product group to which the instrument you wish to trade belongs, click on the "+" sign to the left of the exchange on which it trades. The "+" sign will become a "-" sign and a list of popular product groups will appear underneath the exchange. If that product group is not shown in the popular list, click on the "+" to the left of "All Products" and all product groups for that exchange will be shown.

🔂 Search Symbol					l	- O X	
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			Oescription				
		3140 symbols found.	Search within these				
		Symbol	Description	Exchange	Product	Expiration Month	^
WYMEX	•	CLU0-REBU0	LIGHT SWEET CRUDE OIL	NYMEX	CL	Aug-10	
CL - Light Sweet Crude Oil		CLU0-REU0	LIGHT SWEET CRUDE OIL	NYMEX	CL	Aug-10	
HO - Heating Oil	•	CL:BF N1-Q1-U1	LIGHT SWEET CRUDE OIL	NYMEX	CL	Jun-11	
NG - Natural Gas		CL:BF N1-V1-F2	LIGHT SWEET CRUDE OIL	NYMEX	CL	Jun-11	
PA - NYMEX Palladium	E	CL:C1 H0-CL N1	LIGHT SWEET CRUDE OIL	NYMEX	CL	Jun-11	
PL - NYMEX Platinum		CL:C1 RB-CL N1	LIGHT SWEET CRUDE OIL	NYMEX	CL	Jun-11	
QM - NYMEX miNY Crude Oil	_	CL:FS 03M N1	LIGHT SWEET CRUDE OIL	NYMEX	CL	Jun-11	
···· RB - New York Harbor RBOB Gasolin	_	CLN1-BZN1	LIGHT SWEET CRUDE OIL	NYMEX	CL	Jun-11	•
	-	CEN4 CEEP	LICHT OWEET ONIDE OIL	MVHEV		lue 11 -	5
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Double click on the product group to which the instrument you wish to trade belongs to start the search. At any time you may stop the search by clicking on the **()** icon.



As with searching through an entire exchange or across all exchanges you may narrow your search by selecting an instrument type from the drop down box at the top of the window and/or entering at least 2 letters in the box on the right. You may also direct the search to look at an instrument's symbol instead of its description by clicking on the radio button to the left of the word "Symbol".

#### **Refining Your Search**

Once you have obtained a set of instruments from a multi-exchange, single exchange or product code search (the initial symbol set), you may refine you search. Click on "<u>Search</u> within these..." and the Add Symbol window will transform a bit to provide you with a mechanism to specify search criteria to be applied to the initial symbol set.

🚺 Add Symbol						
- ME - MEFF - MGEX - MGEX - MX		Find Spreads	whose Symbol begins begins Search within results from a			٩
NYBOT NYMEX			in	Symbol Description		
<ul> <li>NYMEX</li> <li>CL - Light Sweet Crude Oil</li> <li>HO - Heating Oil</li> </ul>	•	Symbol	in	4	Product	Expiration Month
<ul> <li>NYMEX</li> <li>CL - Light Sweet Crude Oil</li> <li>HO - Heating Oil</li> <li>NG - Natural Gas</li> </ul>		Symbol	in	Description	Product	
<ul> <li>NYMEX</li> <li>CL - Light Sweet Crude Oil</li> <li>HO - Heating Oil</li> <li>NG - Natural Gas</li> <li>PA - NYMEX Palladium</li> </ul>			Description	Description S		Month
<ul> <li>NYMEX</li> <li>CL - Light Sweet Crude Oil</li> <li>HO - Heating Oil</li> <li>NG - Natural Gas</li> <li>PA - NYMEX Palladium</li> <li>PL - NYMEX Platinum</li> </ul>		CLU0-REBU0	Description	Description Exchange NYMEX	CL	Month Aug-10
NYMEX     CL - Light Sweet Crude Oil     HO - Heating Oil     NG - Natural Gas     PA - NYMEX Palladium     PL - NYMEX Platinum     QM - NYMEX miNY Crude Oil	= -	CLU0-REBU0 CLU0-REU0	Description LIGHT SWEET CRUDE OIL LIGHT SWEET CRUDE OIL	Exchange NYMEX NYMEX	CL CL	Month Aug-10 Aug-10
NYMEX     CL - Light Sweet Crude Oil     HO - Heating Oil     NG - Natural Gas     PA - NYMEX Palladium     PL - NYMEX Platinum     QM - NYMEX miNY Crude Oil     RB - New York Harbor RBOB Gasolin	= -	CLU0-REBU0 CLU0-REU0 CL:BF N1-Q1-U1	Description LIGHT SWEET CRUDE OIL LIGHT SWEET CRUDE OIL LIGHT SWEET CRUDE OIL	Exchange NYMEX NYMEX NYMEX	CL CL CL	Month Aug-10 Aug-10 Jun-11
NYMEX     CL - Light Sweet Crude Oil     HO - Heating Oil     NG - Natural Gas     PA - NYMEX Palladium     PL - NYMEX Platinum     QM - NYMEX miNY Crude Oil	= -	CLU0-REBU0 CLU0-REU0 CL:BF N1-Q1-U1 CL:BF N1-V1-F2	Description LIGHT SWEET CRUDE OIL LIGHT SWEET CRUDE OIL LIGHT SWEET CRUDE OIL LIGHT SWEET CRUDE OIL	Exchange NYMEX NYMEX NYMEX NYMEX NYMEX	CL CL CL CL	Month Aug-10 Aug-10 Jun-11 Jun-11

Type a set of characters in the box in the middle of the top part of the window, click on the Symbol or Description radio button (as above) and then click on the icon. R | Trader<sup>™</sup> will search within the initial symbol set for all instruments whose symbol or description, as the case may be, contain the characters as shown in the box (the characters need not begin the symbol or description as the initial search requires). For example, if you were to type "z9" in the box above and apply it to the symbols in the initial symbol set pictured above, you would see a list of symbols similar to the ones pictured below.

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Add Symbol					
NYMEX A	[				
CL - Light Sweet Crude Oil	Find Spreads	whose Symbol begins wi	th		9
HO - Heating Oil		O Description			
NG - Natural Gas	24 of 406 symbols.	<<			
PA - NYMEX Palladium		<ul> <li>Search within results from about the second s</li></ul>	ove		
PL - NYMEX Platinum			symbol Q		
QM - NYMEX miNY Crude Oil		z1 in OI	Description 🖸	2	
RB - New York Harbor RBOB Gasoline					
- All Products					Expira
45N - PJM Western Hub 50 MW Peak Caler	Symbol	Description	Exchange	Product	Mor
	BBN1-BBZ1	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Jun-1
- 7FT - European Gasoil TAS	BBQ1-BBZ1	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Jul-11
	BBU1-BBZ1	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Aug-1
- 92X - CAR Vintage 2009	BBV1-BBZ1	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Sep-1
	BBX1-BBZ1	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	0ct-11
	BBZ1-BBF2	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
94X - CAR Vintage 2011	BBZ1-BBF3	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
95X - CAR Vintage 2012	BBZ1-BBH3	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
96X - RGGI Vintage 2012	BBZ1-BBJ2	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
98N - RGGI Vintage 2009	BBZ1-BBJ3	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
A0X - Argus Sour Crude Index Financial Fi	BBZ1-BBK2	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
AL - COMEX Aluminum Futures	BBZ1-BBK3	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
AX - Ardour Global Index	BBZ1-BBM2	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
B3 - PJM Northern Illinois Hub 5 MW Peak	BBZ1-BBM3	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
BB - Brent Crude Oil - Financial Contract	BBZ1-BBN2	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
BBT - Brent financial future TAS	BBZ1-BBQ2	BRENT CRUDE OIL - FINANCIAL	NYMEX	BB	Nov-1
BH - Heating Oil	4				•

Each instrument in the list obtained by the refined search (the secondary symbol set) contains the letters "z1'' (case independent) somewhere in its symbol.

#### Adding a Symbol to the Window that Launched the Add Symbol Window

To insert an instrument into the window from which the Add Symbol window was launched double click on the instrument or highlight it and click the button labeled "Copy Symbol" at the bottom.





# Appendix E – Understanding and Configuring Brackets

#### What is a Bracket?

A bracket is a set of orders that are placed around an open position to simultaneously establish a point at which the open position should be closed and profits taken or losses realized and limited. A bracket is used to limit, or bound (or bracket), a position's profit and loss.

A Bracket order combines an entry order, which when filled or partially filled, establishes an open position around which brackets are then placed, and a series of OCO orders that are placed to implement the bracket. One part of the OCO order is a limit order, the other is a stop (market) order.

A bracket can be configured in tiers or levels. For example, if an entry order for a buy quantity of 6 is filled, the bracket may be configured to close the position and take profits by placing an order to sell a quantity of 2, 1 tick above the price at which the 6 were filled, a quantity of 2, 2 ticks above the price at which the 6 were filled and a quantity of 2, 3 ticks above the price at which the 6 were filled, as in the Configure Brackets window below. Correspondingly, the bracket may be configured to dump 3 at market when the price of the instrument falls 5 ticks below the price at which the 6 were filled and 3 at market when the price of the instrument falls 7 ticks below the price at which the 6 were filled.

E	G Configure Brackets								
	Bracket Name								
l	Α	<b>•</b>	<u>D</u> e	lete					
l	Target Ticks	Target Qty		Stop Ticks	Stop Q	ty			
	1	2		5	2				
	2	6		6	12				
				_					
	Stops Trail By Last Price								
	<u>C</u> lear			<u> </u>	ave	Close			



The price levels for taking profit are called target ticks or target levels. The price levels for realizing and limiting losses are called stop ticks or stop levels.

**Note:** The quantity of an entry order may never exceed the lesser of (a) the sum of the target quantities of a bracket or (b) the sum of the stop quantities of the bracket. Consequently, a bracket may be configured to handle quantities larger than required for a particular entry order. Configuring brackets to handle larger than required entry order quantities enables you to use such brackets on orders containing various entry quantities without having to have one bracket for each entry quantity.

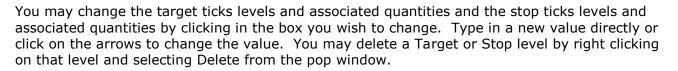
#### **Creating a New Bracket**

To configure a bracket click on the button labeled "Config" located in the Brackets box on the left of the top part of the Order Book. A Configure Brackets window will pop up empty if you do not have any brackets configured. Otherwise, select a bracket to view from the drop down box.

You may create a new bracket either by selecting (and even modifying) an existing bracket, overwriting its name and saving it, or by starting with a clear Configure Brackets window. If you have not previously saved any brackets then the Configure Brackets Window will be clear. Otherwise to start with a cleared window, click on the "Clear Window" button.

E	🗿 Configure	Brackets				Σ	x
	Bracket Name	•					
1	A	•	<u>D</u> elete				
l	Target Ticks	Target Qty	Stop	Ticks	Stop Qt	y	
	1	2	5		2		
	2	6	6		12		
	Stops Trail By Last Price						
	<u>C</u> lear			5	ave	Close	

Type the name in the Bracket Name box under which the bracket configuration will be identified and saved. Click in the Target Ticks boxes to set the target levels (in ticks) for this bracket. Click in a Target Qty box next to a Target Ticks box to set the quantity for that target level. Click in the Stop Ticks boxes to set the stop levels (in ticks) for this bracket. Click in a Stop Qty box next to a Stop Ticks box to set the quantity for that stop level.



F	Configure Brackets							
	Bracket Name							
I	A	<b>•</b>	Del	ete				
I	Target Ticks	Target Qty		Stop Ti	cks .	Stop Qt	у	
I	1	2		5		2		
	2	6		6		12		
l								
	Stops Trail By Last Price							
	<u>C</u> lear				<u>S</u> av	/e	Close	•

Save the bracket configuration by clicking on the "Save" button.

When you are done creating brackets click on the "Close" button.

#### **Deleting a Bracket**

To delete a bracket click on the button labeled "Config" located in the Brackets box on the left of the top part of the Order Book. Select the bracket you wish to delete from the drop down list and click the "Delete" button.

When you are done deleting brackets click on the "Close" button.

#### **Modifying a Bracket**

To modify a bracket click on the button labeled "Config" located in the Brackets box on the left of the top part of the Order Book. Select the bracket you wish to modify from the drop down list.

You may modify the target ticks levels and associated quantities and the stop ticks levels and associated quantities of the bracket by clicking in the box you wish to change. You may type in

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a new value directly or click on the arrows to change the value. You may delete a Target or Stop level by right clicking on that level and selecting Delete from the pop window.

🐼 Configure Brackets							
Bracket Name							
В	•	De	lete				
Target Ticks	Target Qty		Stop Ti	cks	Stop Qt	y	
1	10		5		10		
5	15		7	÷	20		
			Sto	ps Trail	By Last	Price	
<u>C</u> lear				<u>S</u> a	ve	<u>C</u> lose	•

Save the modified bracket configuration by clicking on the "Save" button.

When you are done modifying brackets click on the "Close" button.





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