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analyze. trade. evolve.

MotiveWave™  
What's New in Version 6.5

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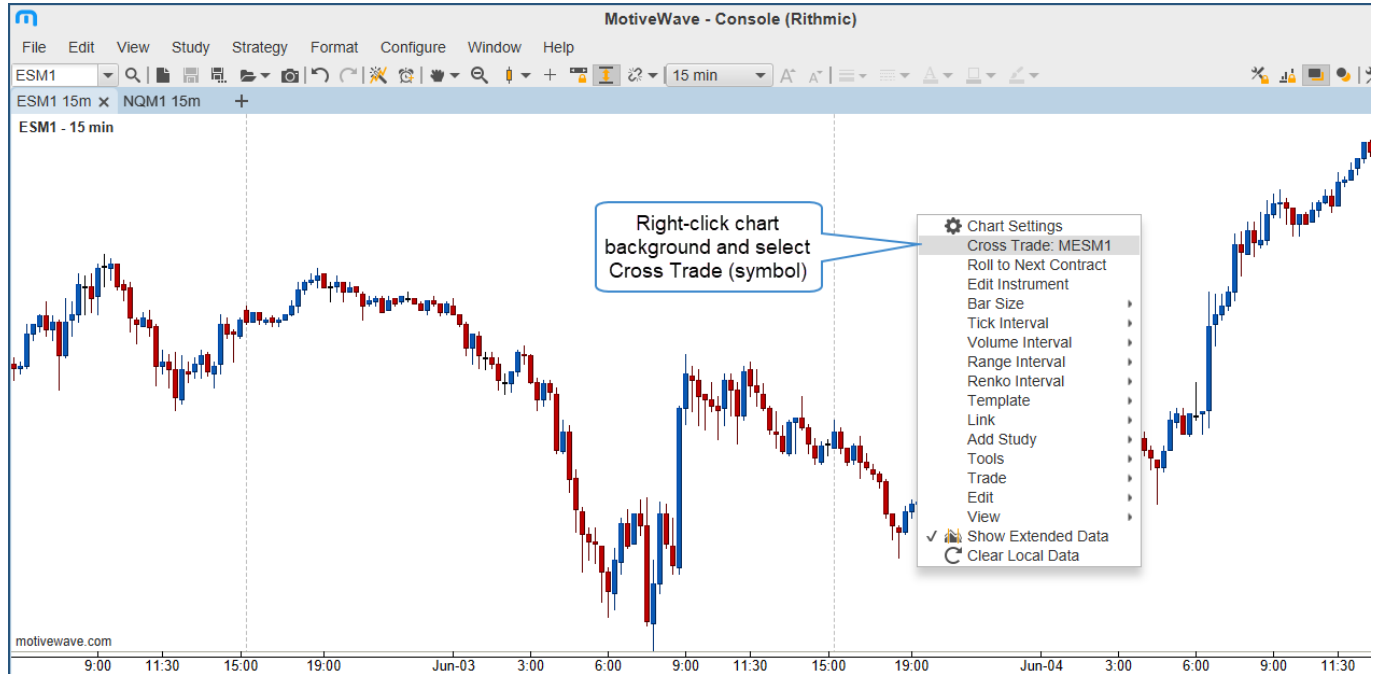
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# 1 Introduction

Welcome to MotiveWave™ version 6.5! This document will outline the features that have been added between version 6.4 and version 6.5.

## 2 Cross Trading

Cross Trading futures contracts can be done via a right-click on the chart and select Cross Trade (symbol). For example, you can trade the S&P 500 Micro contract (MES) from the S&P 500 E-Mini (ES) chart.



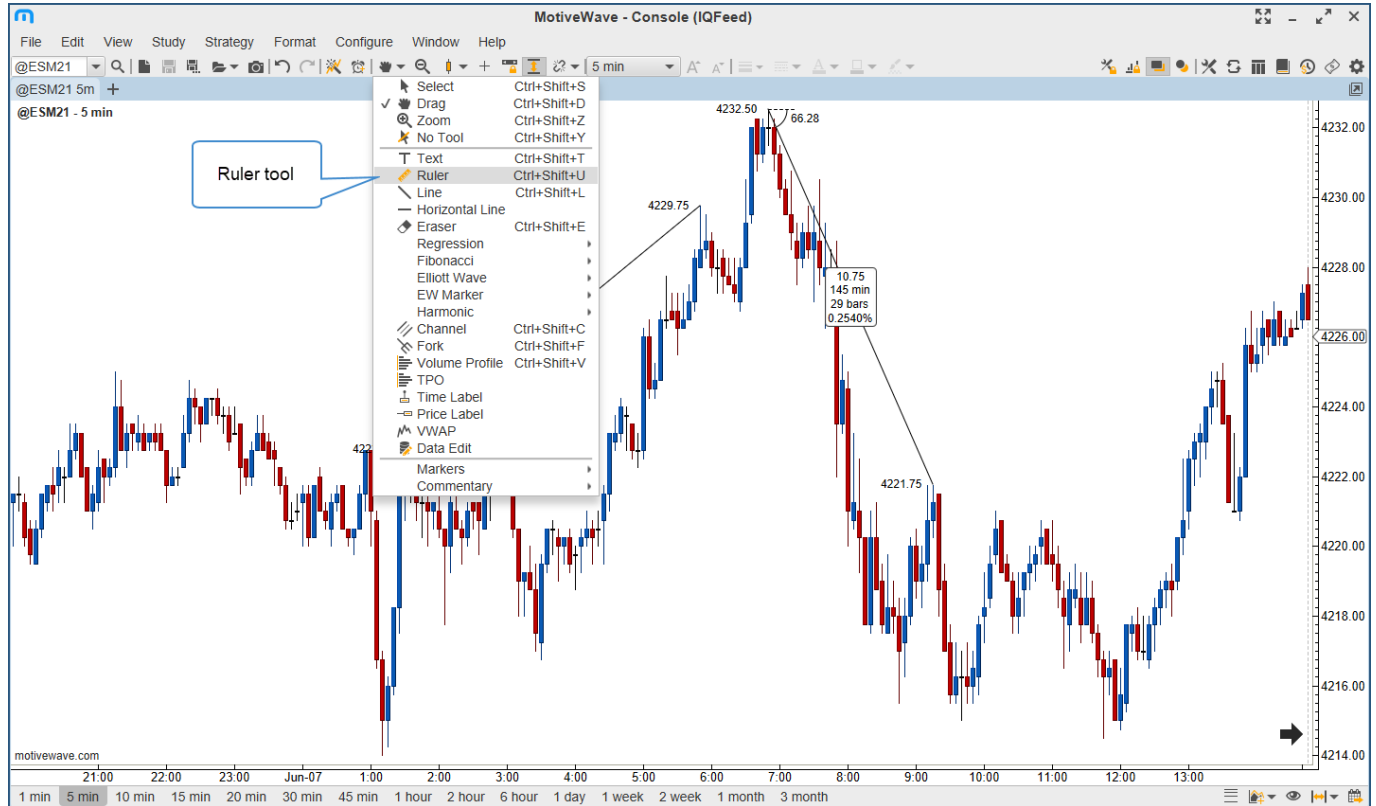
### 3 VWAP Component

The VWAP (Volume Weighted Average Price) component is available as a component (General tab) or a mouse tool. This behaves similar to the VWAP study, but has resize points to choose start/end points. In order to resize the end point, right-click the line and uncheck "Live Data".



## 4 Ruler Tool

Added an option to make the ruler tool stick to the chart after it is drawn. This effectively adds it as a component to the chart (See Configure > Preferences > Chart > Options, Erase Ruler option).



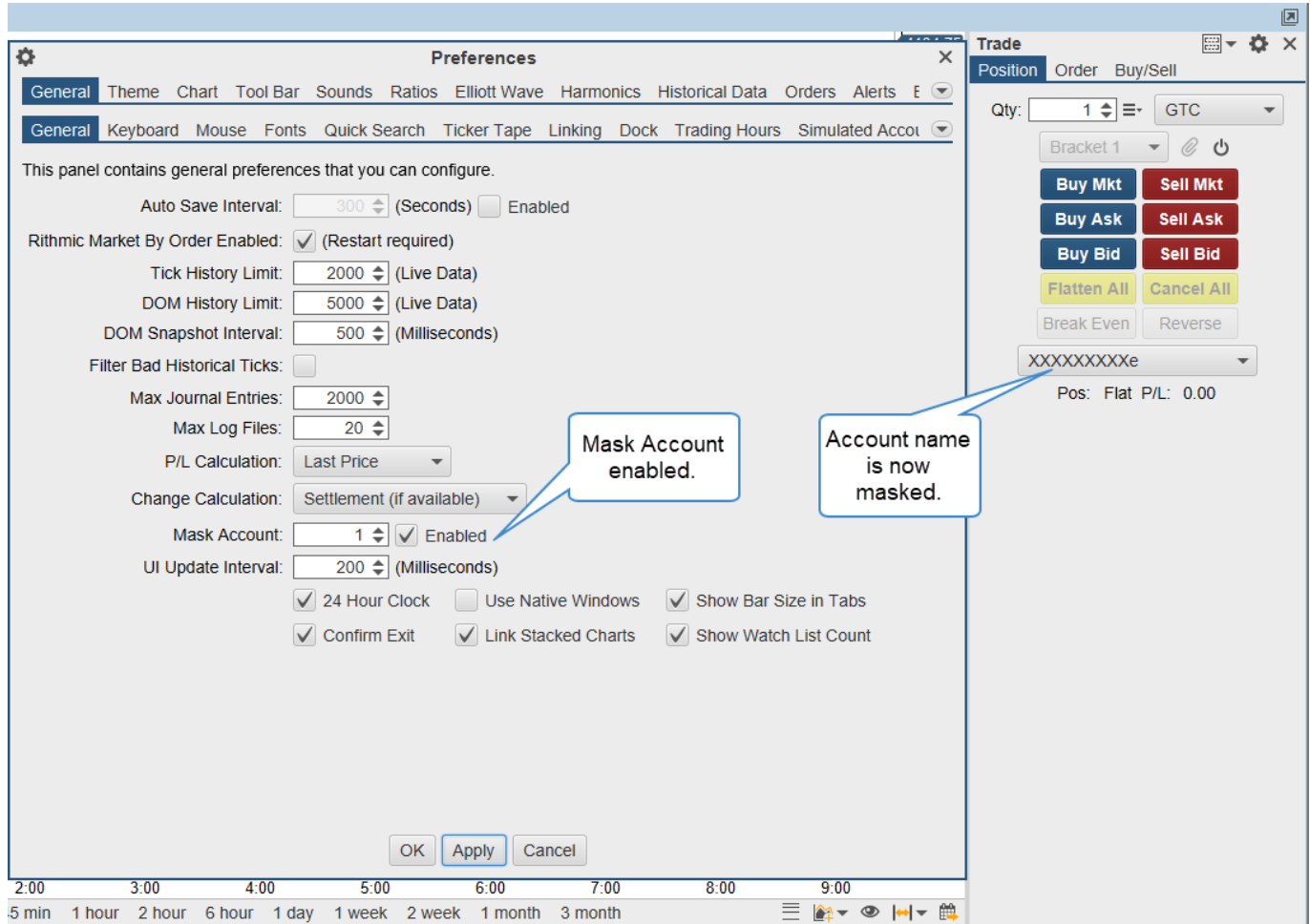
## 5 Zoom Bar Width

Adjustments to the bar width smaller than 1 pixel wide will automatically adjust the bar size (linear bars only). For example, if the bar size is 1 minute, reducing the bar width (from 1 pixel) will switch the bar size to 2 min, 4 min, 8 min, etc. This is done to show more data on the chart. Expanding the bar width from that state will revert the bar size to 4 min, 2 min and then back to 1 minute.



## 6 Hide Account Name

The account name can be masked in all the MotiveWave screens and will display as XXXXX937 for example (See Configure > Preferences > General > General).



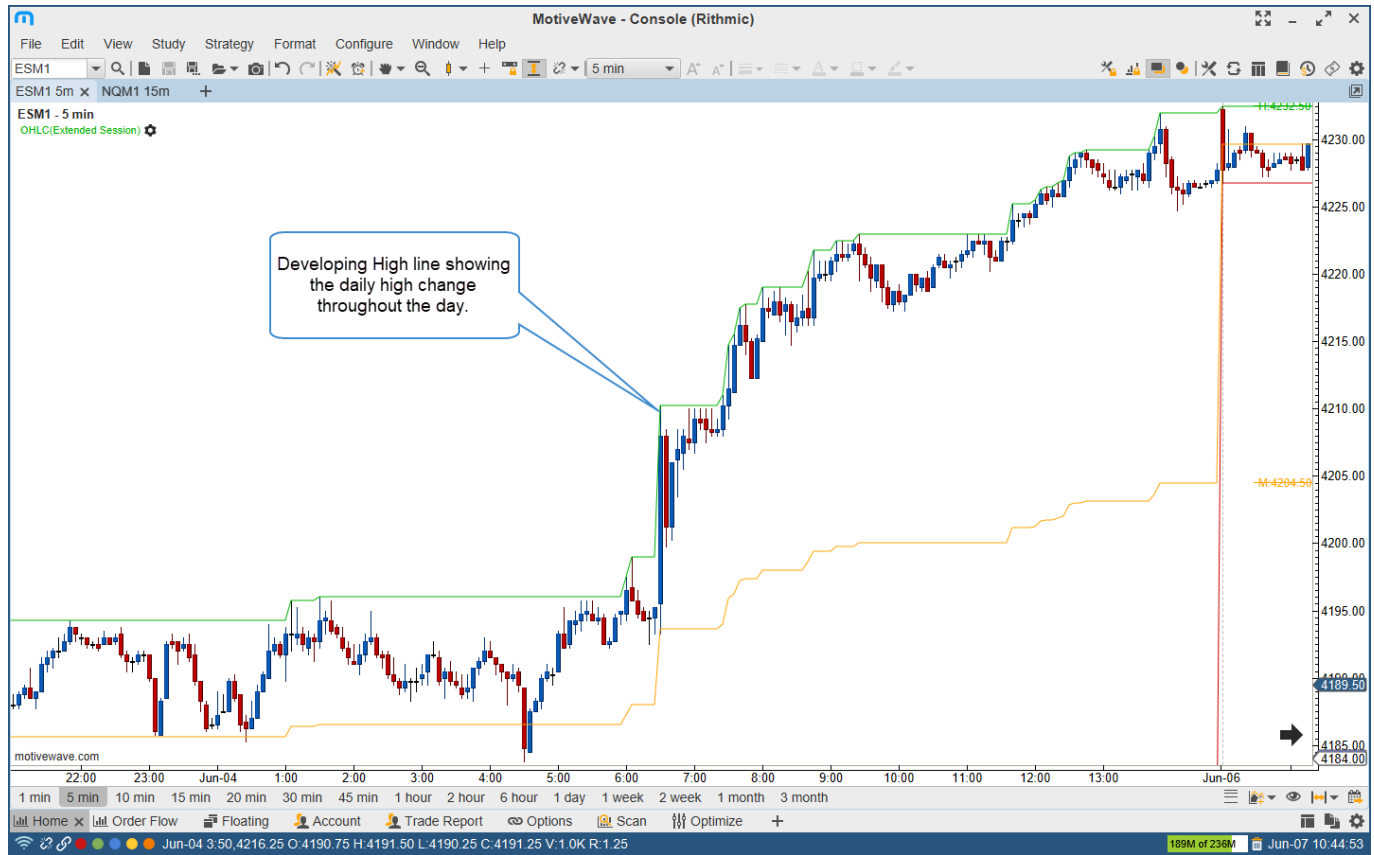


## 7 Studies

Here are new updates to studies.

### 7.1 OHLC

Options have been added for developing Low, Midpoint and High values.



### 7.2 Volume Imprint

The Volume Imprint study has been enhanced to show the number of large trades at the bid/ask on the left and right sides of the imprint (see the new Trade Dots tab).

### Volume Imprint

Displays detailed volume information for each bar on the chart.

General
Display
Imbalance
Profile
Ladder
Bid/Ask
Delta
Volume
Trade Dots
Summary Profil
▼

Show Trade Dots:

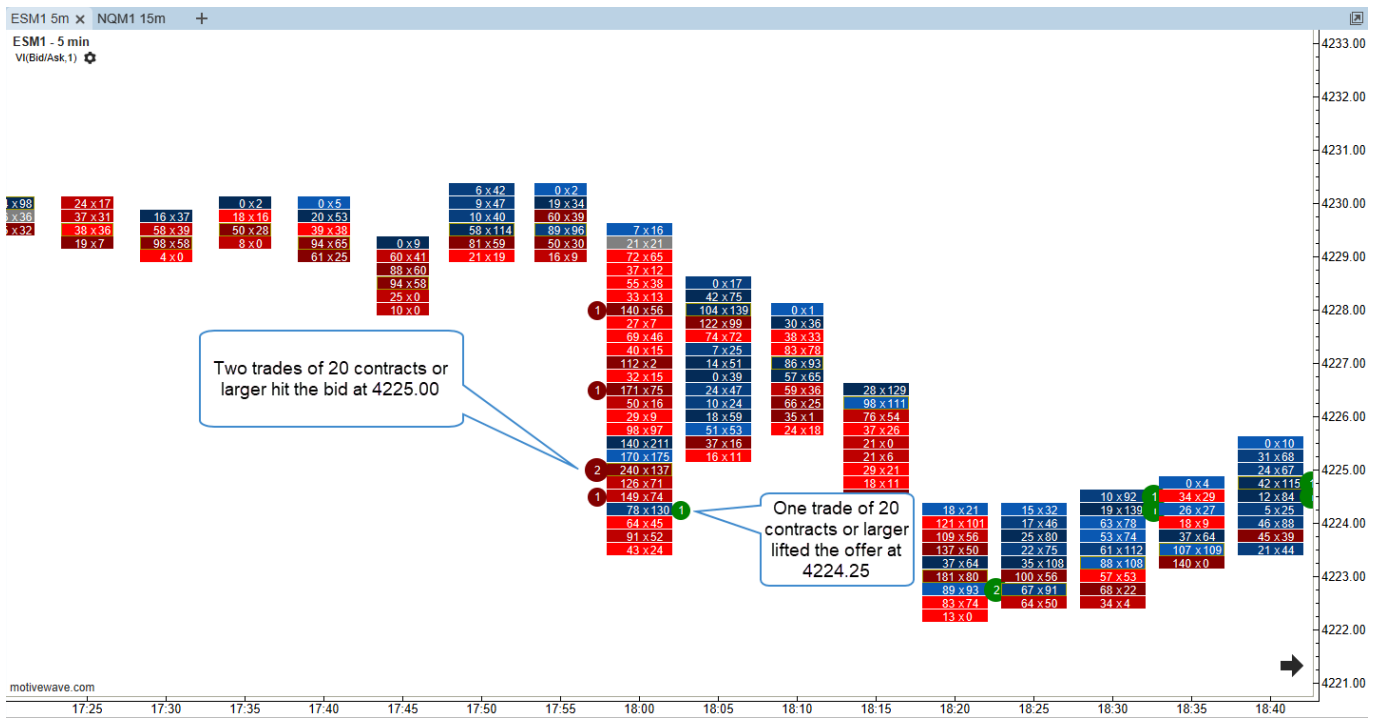
Outline: Auto Circle

@Ask Trades: Arial;12.0   ✎

@Bid Trades: Arial;12.0   ✎

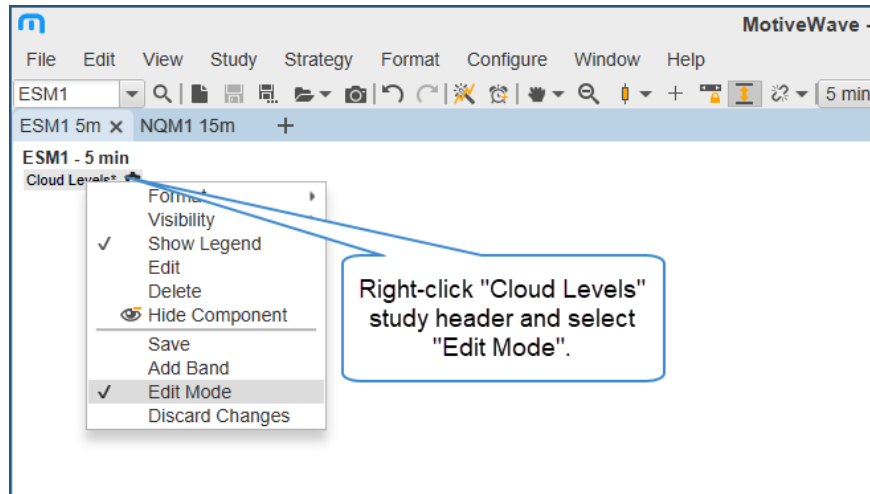
Min Trade Size: 20

Create
Defaults ▼
Help
Cancel



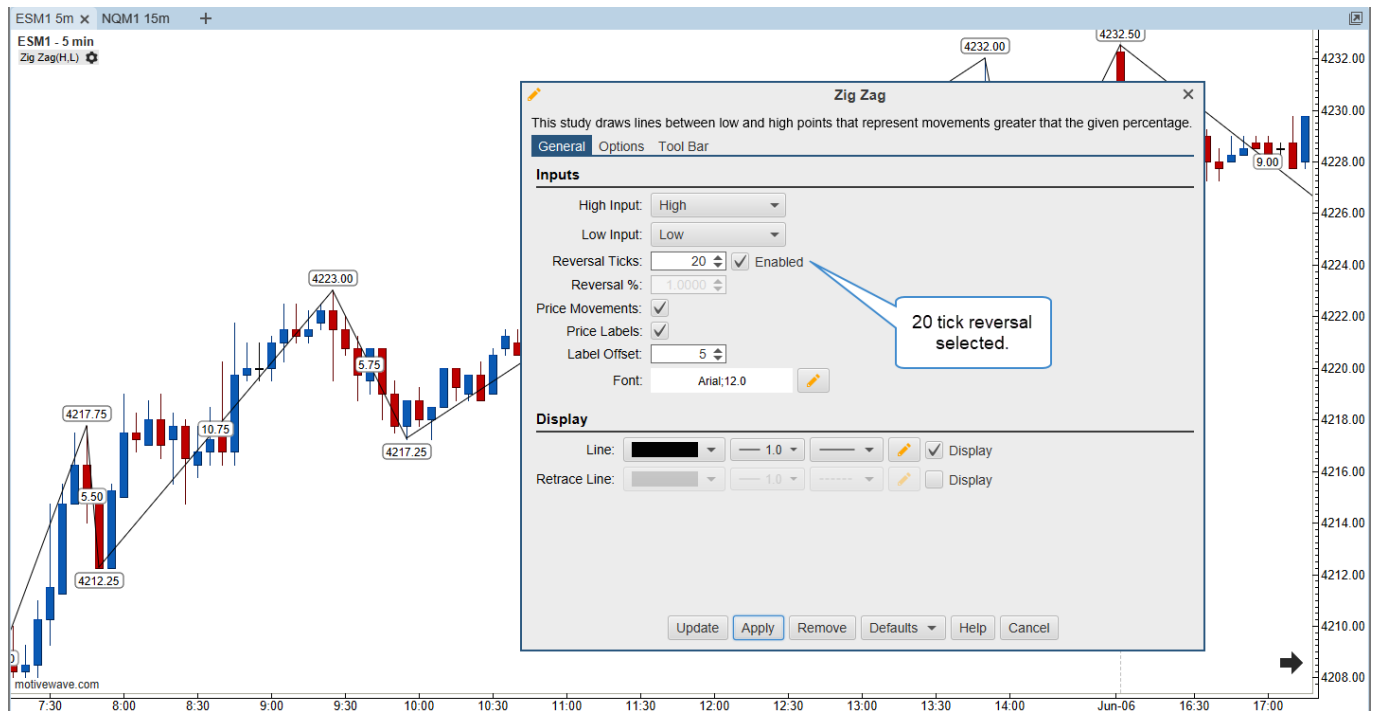
### 7.3 Cloud Levels

The Cloud Levels study now has an edit mode (right-click on the study header and select “Edit Mode”). This mode will allow you to edit the price levels and add/delete levels by right-clicking the price levels (defaulted to the left side of the chart). The changes can be saved to a CSV file by right-clicking the study header and selecting Save.



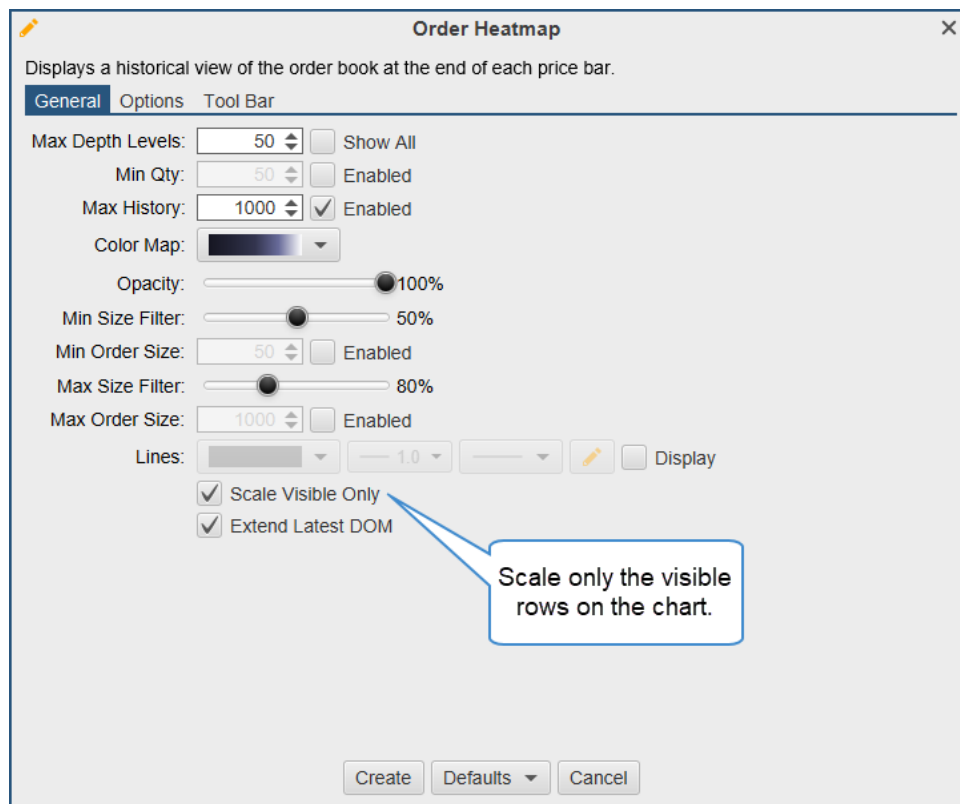
### 7.4 Zig Zag

An option has been added for selecting the reversal in ticks versus percent.



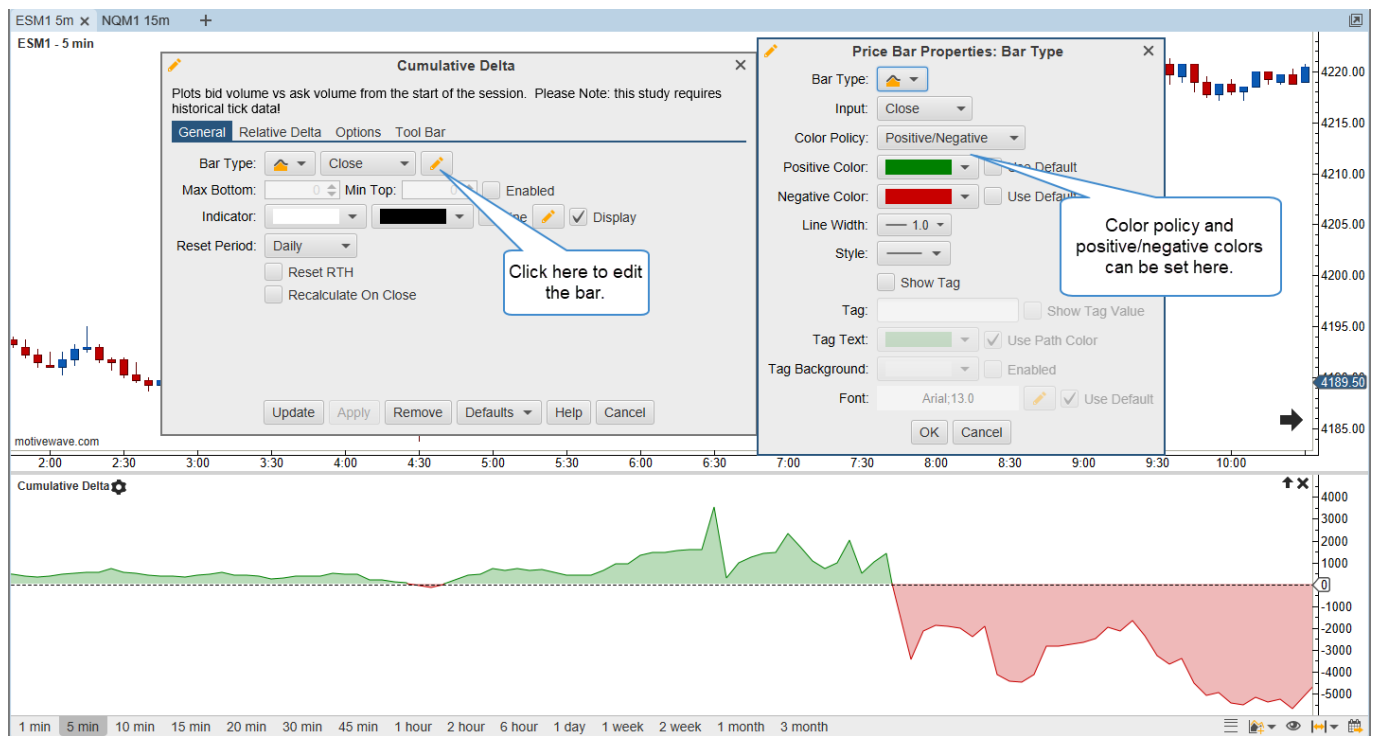
### 7.5 Order Heatmap

Added an option to scale visible rows only. This will apply the color map to the sizes that are visible only.



### 7.6 Cumulative Delta

Added options to change the color above and below the zero line for a line chart.



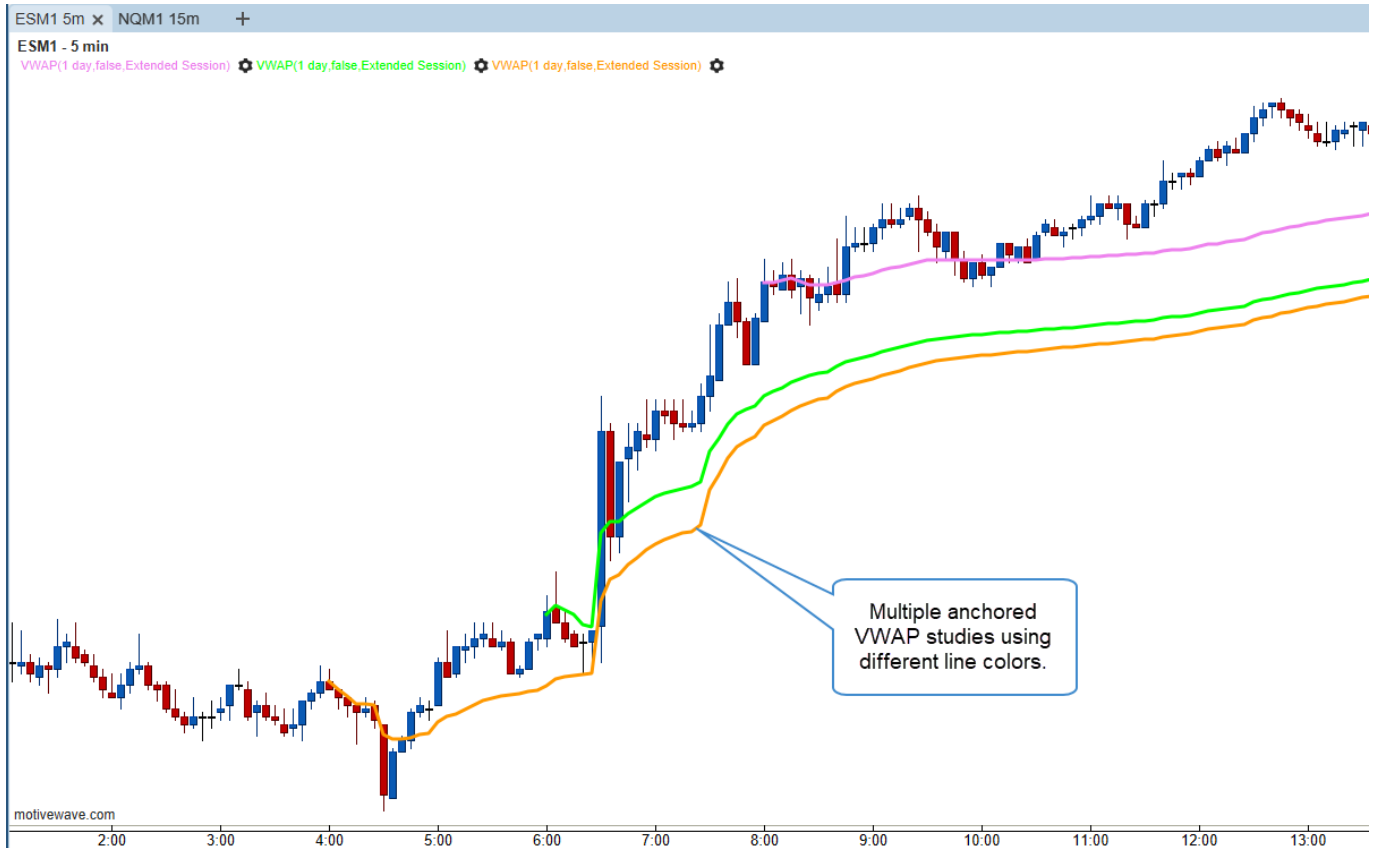
### 7.7 Fractal

Added a "Show Label" option to display the price of the high/low.



## 7.8 VWAP

Multiple VWAP (Volume Weighted Average Price) studies using the same criteria can now be added to the chart with different anchor points. Each VWAP must have different colored lines.



## 8 Depth Of Market (DOM)

The following enhancements have been added to the DOM.

### 8.1 Price Column

Added alignment options and the ability to display cumulative trades (same as the LTQ column).

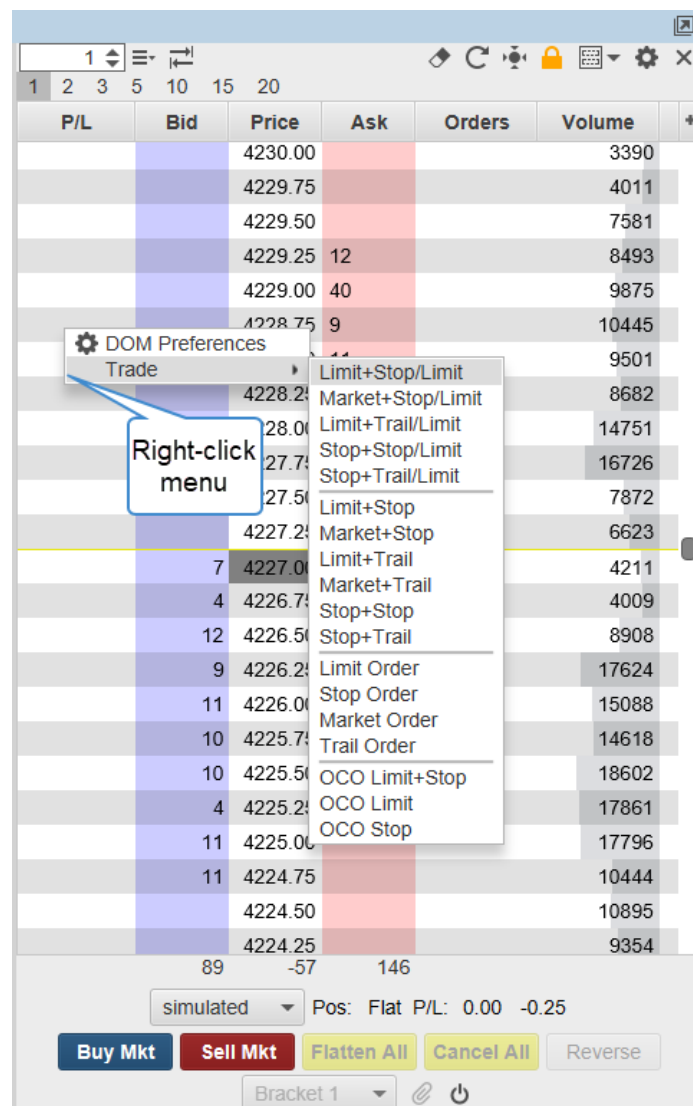
### 8.2 LTQ Column

LTQ (Last Traded Quantity) column can be configured to highlight the background of the cell when a trade occurs at the bid or the ask.

### 8.3 Placing Orders

#### 8.3.1 Right-Click

Added access to the order combinations (Limit + Stop/Limit, etc.) via a right-click menu on the DOM table.



The screenshot displays the Depth of Market (DOM) table with columns for P/L, Bid, Price, Ask, Orders, and Volume. A right-click menu is open over the table, showing a list of order combinations. A callout box labeled "Right-click menu" points to the menu. The menu options include:

- Limit+Stop/Limit
- Market+Stop/Limit
- Limit+Trail/Limit
- Stop+Stop/Limit
- Stop+Trail/Limit
- Limit+Stop
- Market+Stop
- Limit+Trail
- Market+Trail
- Stop+Stop
- Stop+Trail
- Limit Order
- Stop Order
- Market Order
- Trail Order
- OCO Limit+Stop
- OCO Limit
- OCO Stop

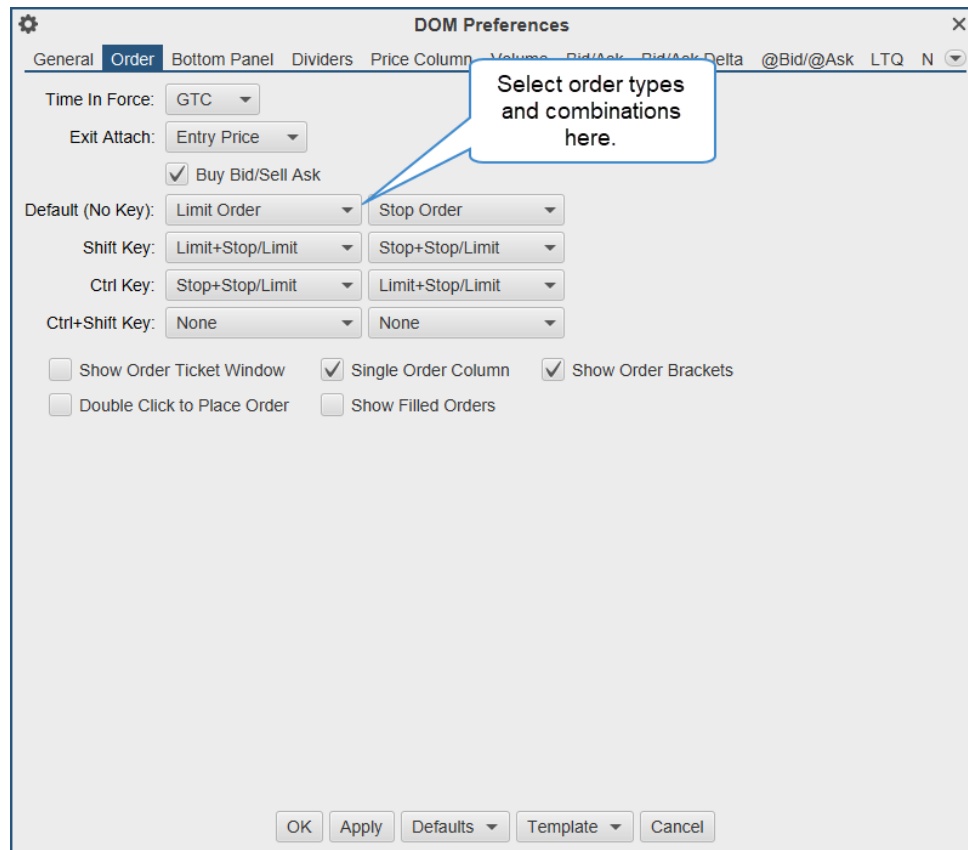
The DOM table data is as follows:

P/L	Bid	Price	Ask	Orders	Volume
		4230.00			3390
		4229.75			4011
		4229.50			7581
		4229.25	12		8493
		4229.00	40		9875
		4228.75	9		10445
		4228.25			9501
		4228.00			8682
		4227.75			14751
		4227.50			16726
		4227.25			7872
		4227.00			6623
7	4227.00				4211
4	4226.75				4009
12	4226.50				8908
9	4226.25				17624
11	4226.00				15088
10	4225.75				14618
10	4225.50				18602
4	4225.25				17861
11	4225.00				17796
11	4224.75				10444
		4224.50			10895
		4224.25			9354
89			-57	146	

At the bottom of the interface, there is a "simulated" dropdown, "Pos: Flat P/L: 0.00 -0.25", and buttons for "Buy Mkt", "Sell Mkt", "Flatten All", "Cancel All", and "Reverse". A "Bracket 1" dropdown is also visible.

### 8.3.2 Configurable Mouse Orders

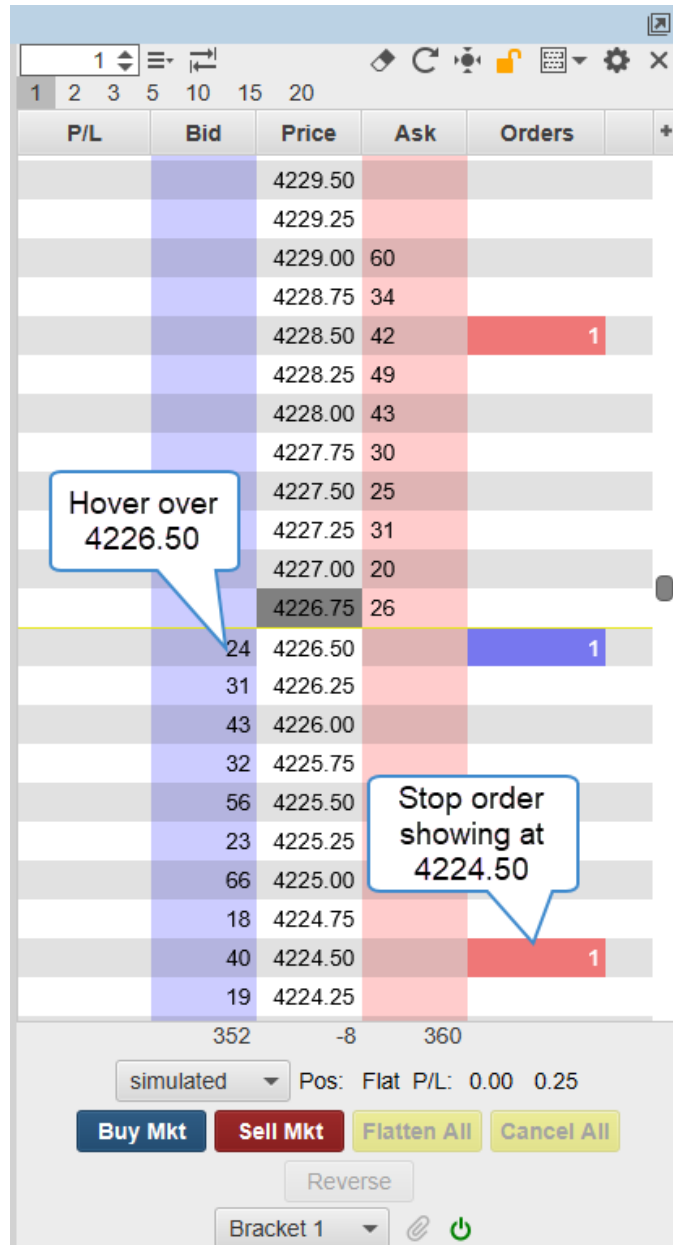
The behavior of placing orders directly on the DOM table may not be configured to place order combinations. Additionally, keyboard modifiers (Shift, Ctrl, Ctrl + Shift) may be used to setup multiple order types/combinations. (See DOM Preferences > Order tab).



### 8.3.3 Highlight Order Entry/Exit

Before an order is placed in the DOM, the cells in the order column will display where the entry and exit orders will be placed along with their quantities. This feature can be enabled/disable in DOM Preferences > Order tab under "Show Order Brackets".

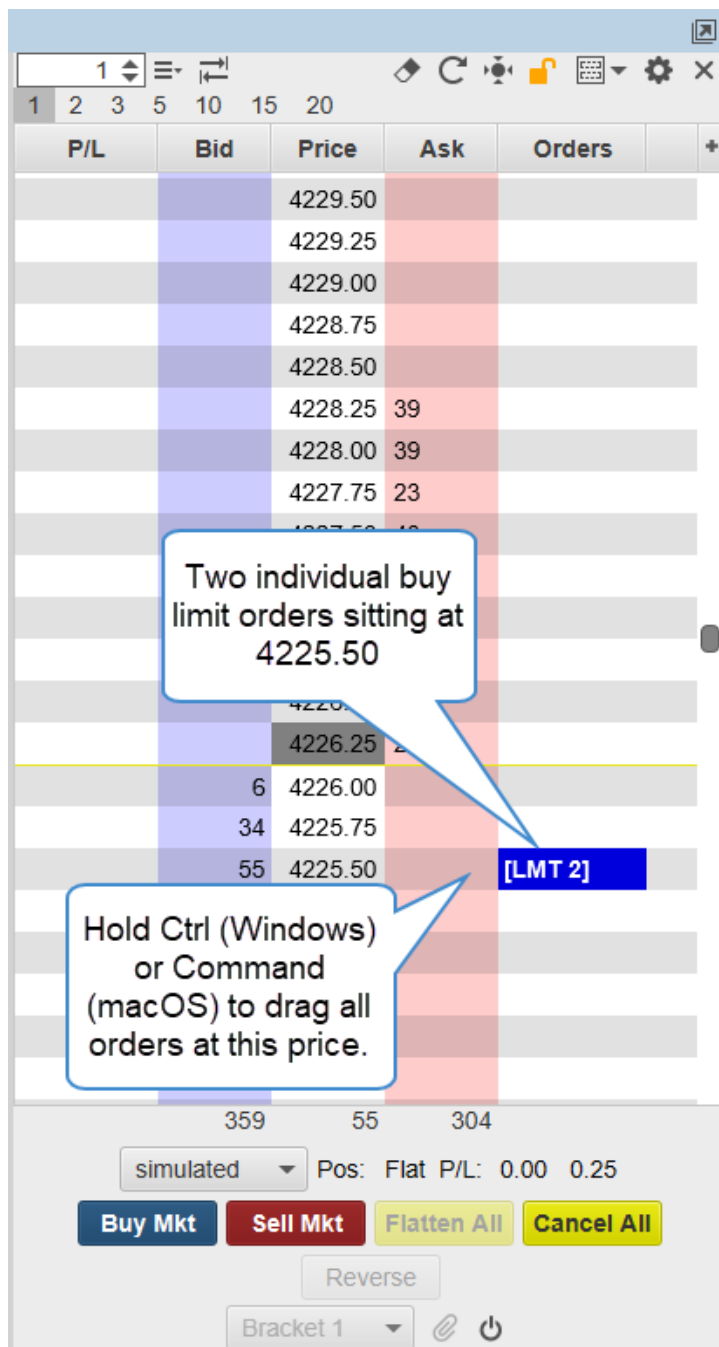




## 8.4 Stacked Orders

Orders at the same price will be displayed with brackets [ ]. The quantity displayed will be the sum of all the orders at that price. The position in queue marker will also display multiple markers.

Holding the Ctrl key (Command key on macOS) while dragging an order in the DOM or price graph will modify all orders of the same type and price.



Two individual buy limit orders sitting at 4225.50

Hold Ctrl (Windows) or Command (macOS) to drag all orders at this price.

P/L	Bid	Price	Ask	Orders
		4229.50		
		4229.25		
		4229.00		
		4228.75		
		4228.50		
		4228.25	39	
		4228.00	39	
		4227.75	23	
		4227.50	18	
		4227.25	12	
		4227.00	7	
		4226.75	4	
		4226.50	2	
		4226.25	2	
6		4226.00		
34		4225.75		
55		4225.50		[LMT 2]
		4225.25		
		4225.00		

359 55 304

simulated Pos: Flat P/L: 0.00 0.25

Buy Mkt Sell Mkt Flatten All Cancel All

Reverse

Bracket 1

## 8.5 Highlight Price Row

The entire row can now be highlighted for the last price (See DOM Preferences > Price Column tab).

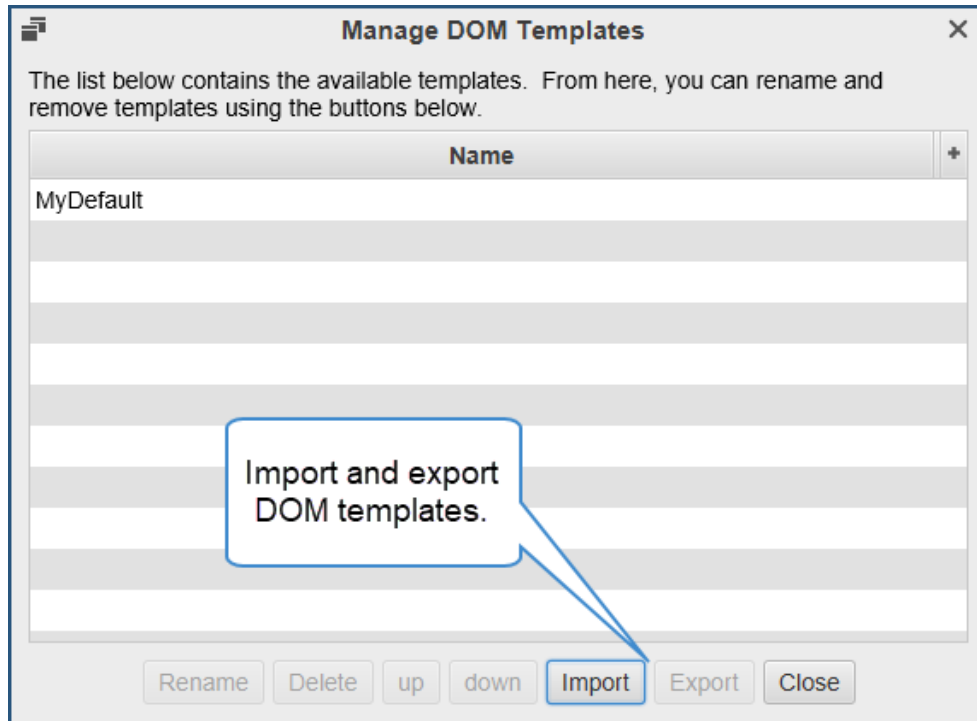
The screenshot shows the 'DOM Preferences' dialog box on the left and the DOM table on the right. The dialog has several tabs: General, Order, Bottom Panel, Dividers, Price Column, Volume, Bid/Ask, Bid/Ask Delta, @Bid/@Ask, LTQ, and N. The 'Price Column' tab is selected. In this tab, the 'Last Price Row' is set to a yellow color and is checked as 'Enabled'. A callout bubble points to this setting with the text 'Last Price Row enabled'. Other settings include 'Price Align' set to 'Right', 'Column Fill' set to a grey color and 'Enabled', 'Session High/Low Fill' set to a grey color and 'Enabled', 'Fill Above Ask' set to a purple color and 'Enabled', 'Fill Below Ask' set to a red color and 'Enabled', 'Bid Price' set to a grey color and 'Enabled', 'Ask Price' set to a grey color and 'Enabled', 'Last Price' set to a white color and 'Enabled', 'Avg Entry' set to a purple color and 'Enabled', 'Open' set to a green color and 'Enabled', 'High' set to a purple color and 'Enabled', 'Low' set to a red color and 'Enabled', 'Previous Close' set to a red color and 'Enabled', and 'Opening Range' set to a green color and 'Enabled'. There are also checkboxes for 'Allow orders to be placed with the mouse' (unchecked), 'Show Last Size' (checked), and 'Cumulative Last Size' (checked). At the bottom of the dialog are buttons for 'OK', 'Apply', 'Defaults', 'Template', and 'Cancel'. The DOM table on the right has columns for 'P/L', 'Bid', 'Price', 'Ask', and 'Orders'. The table shows a list of orders with their respective prices and sizes. The row for the last traded price (Price: 4226.50, Bid: 13, Ask: 13) is highlighted in yellow. A callout bubble points to this row with the text 'DOM row highlight at the last traded price.' Below the table, there are summary statistics: '378' for the bid side, '47' for the price side, and '331' for the ask side. At the bottom of the window, there are buttons for 'Buy Mkt', 'Sell Mkt', 'Flatten All', and 'Cancel All', along with a 'Reverse' button and a 'Bracket 1' dropdown menu.

## 8.6 Table Striping

Added the option to turn off the DOM table striping.

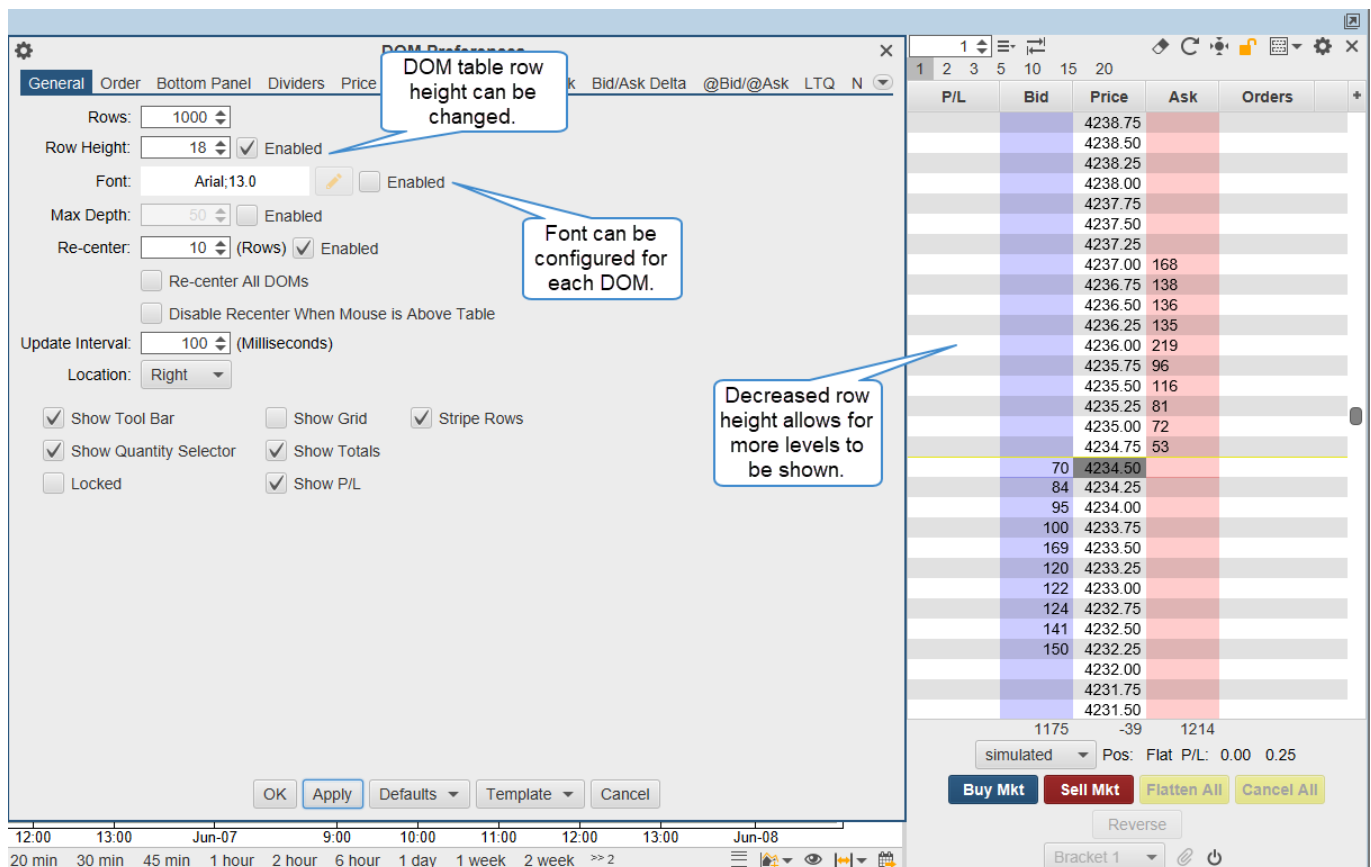
### 8.7 DOM Templates

Added the ability to import and export DOM templates.



### 8.8 Row Height and Font

The DOM row height and font can now be configured for each DOM separately. See DOM Preferences > General tab. Row height can also be configured by holding down the Ctrl key (Command on macOS) while scrolling your mouse wheel.

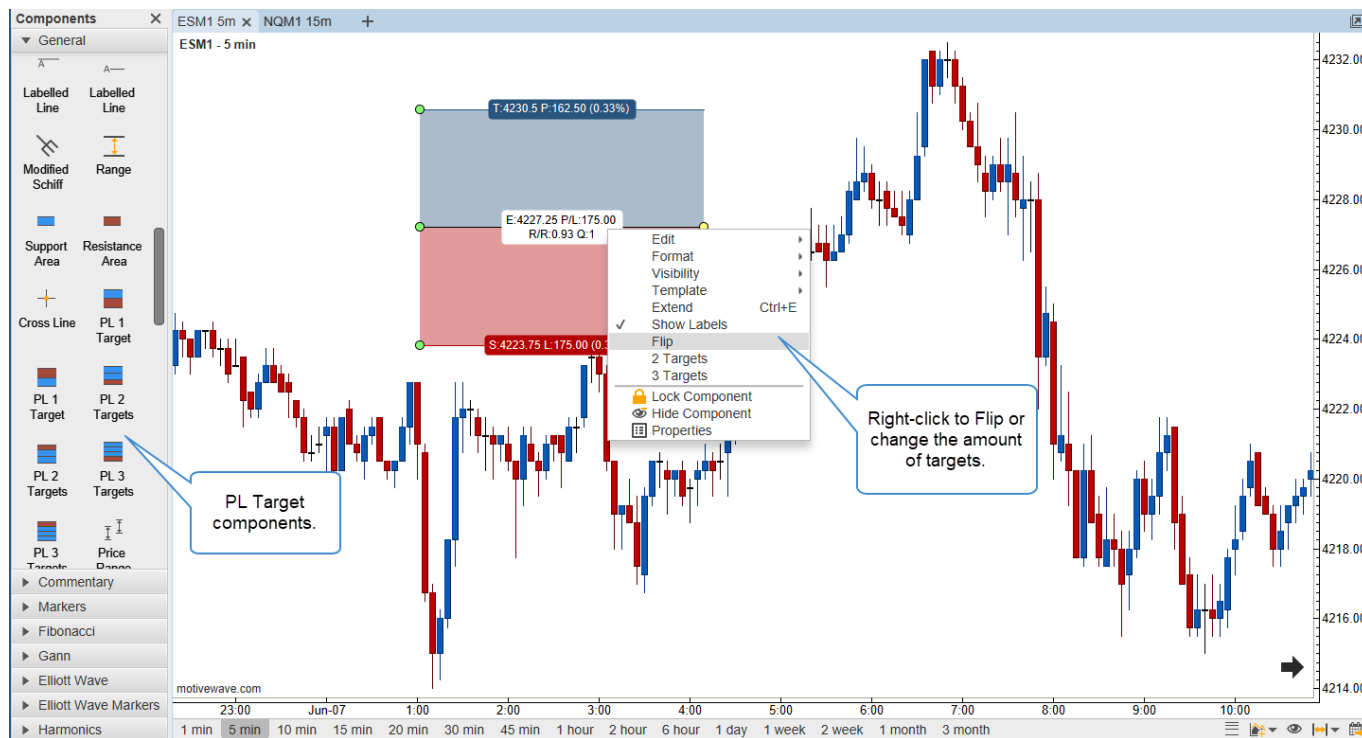


## **8.9 DOM Recenter**

Double-click on the Price column will recenter the DOM table. Holding down the Ctrl key (Command on macOS) will recenter all DOMs.

## 9 Profit/Loss Target Components

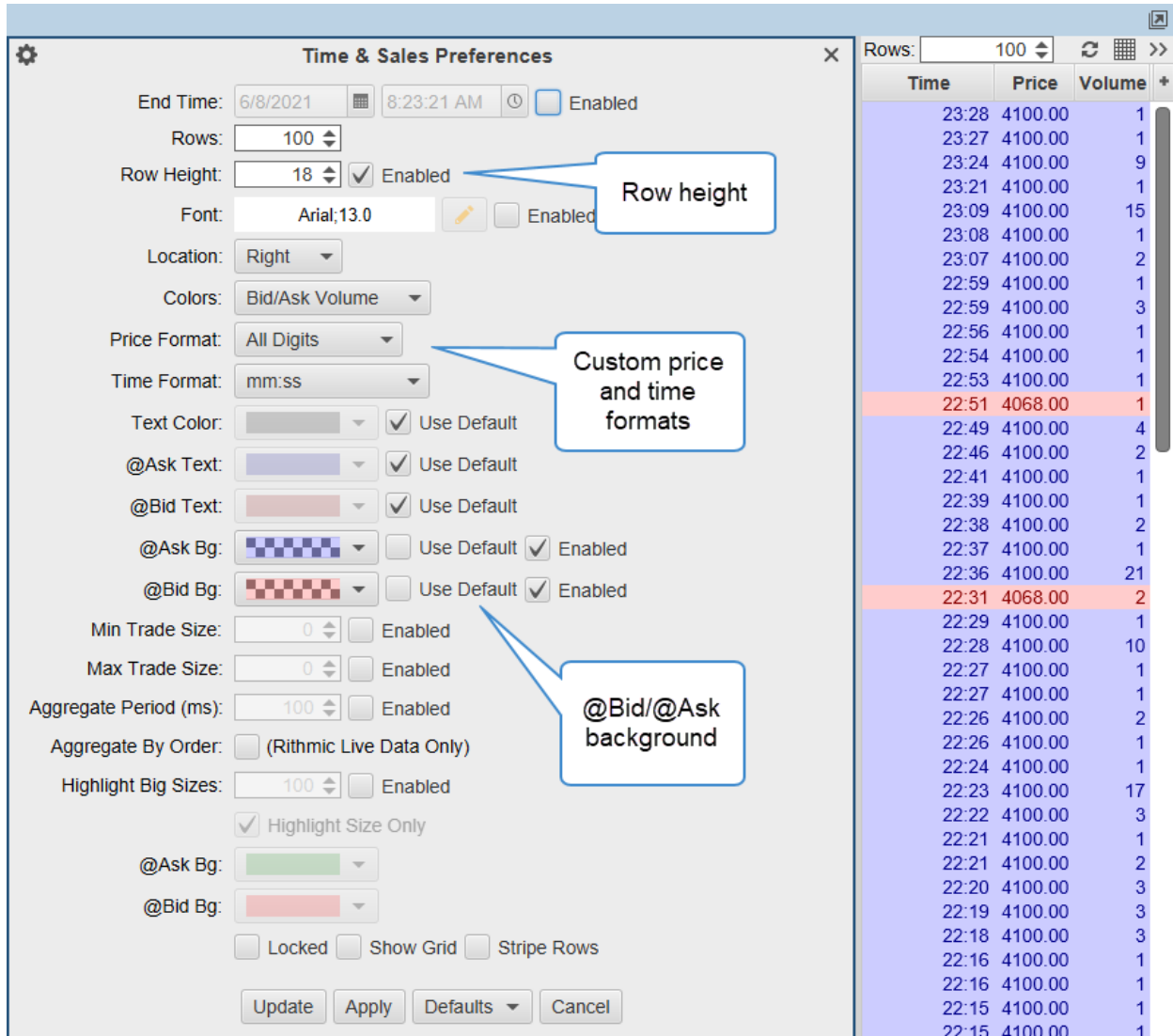
Added right-click options to flip and change the number of targets.



## 10 Time & Sales

These enhancements were made to the Time & Sales:

- Table font – The font used for the table cells is now configurable from the Preferences dialog.
- Row height – A fixed row height can be set for the table.
- Striping – Added the option to turn off the table striping.
- Minimum width – The minimum width of this panel has been reduced to 175 px.
- @Bid/@Ask background – Added an option to set the background (in addition to text color).
- Highlight big sizes – Added an option to highlight the Size cell only.
- Price format – Added options for displaying only part of the price.
- Time format – Added options for formatting the time column.



**Time & Sales Preferences**

End Time: 6/8/2021 8:23:21 AM  Enabled

Rows: 100

Row Height: 18  Enabled **Row height**

Font: Arial, 13.0  Enabled

Location: Right

Colors: Bid/Ask Volume

Price Format: All Digits **Custom price and time formats**

Time Format: mm:ss

Text Color:  Use Default

@Ask Text:  Use Default

@Bid Text:  Use Default

@Ask Bg:  Use Default  Enabled

@Bid Bg:  Use Default  Enabled **@Bid/@Ask background**

Min Trade Size: 0  Enabled

Max Trade Size: 0  Enabled

Aggregate Period (ms): 100  Enabled

Aggregate By Order:  (Rithmic Live Data Only)

Highlight Big Sizes: 100  Enabled

Highlight Size Only

@Ask Bg:  Use Default  Enabled

@Bid Bg:  Use Default  Enabled

Locked  Show Grid  Stripe Rows

Update Apply Defaults Cancel

Time	Price	Volume
23:28	4100.00	1
23:27	4100.00	1
23:24	4100.00	9
23:21	4100.00	1
23:09	4100.00	15
23:08	4100.00	1
23:07	4100.00	2
22:59	4100.00	1
22:59	4100.00	3
22:56	4100.00	1
22:54	4100.00	1
22:53	4100.00	1
22:51	4068.00	1
22:49	4100.00	4
22:46	4100.00	2
22:41	4100.00	1
22:39	4100.00	1
22:38	4100.00	2
22:37	4100.00	1
22:36	4100.00	21
22:31	4068.00	2
22:29	4100.00	1
22:28	4100.00	10
22:27	4100.00	1
22:27	4100.00	1
22:26	4100.00	2
22:26	4100.00	1
22:24	4100.00	1
22:23	4100.00	17
22:22	4100.00	3
22:21	4100.00	1
22:21	4100.00	2
22:20	4100.00	3
22:19	4100.00	3
22:18	4100.00	3
22:16	4100.00	1
22:16	4100.00	1
22:15	4100.00	1
22:15	4100.00	1



# 11 Order Book

These enhancements were made to the Order Book:

- a. Table font – The font used for the table cells is now configurable from the Preferences dialog.
- b. Row height – A fixed row height can be set for the table.
- c. Striping – Added the option to turn off the table striping.

The screenshot displays the Order Book and Time & Sales windows. The Order Book table on the left has columns: Value, Size, Bid, Ask, Size, Value. The Time & Sales table on the right has columns: Time, Price, Volume. A callout box points to the tables with the text: "Order Book and Time & Sales shown with reduced row height." The interface includes a "Rows:" dropdown set to 100, a settings gear icon, and a "Bracket 1" dropdown at the bottom.

Value	Size	Bid	Ask	Size	Value
5,853,750	28	4181.25	4181.50	108	22,580,100
5,226,250	25	4181.00	4181.75	79	16,517,912
209,038	1	4180.75	4182.00	8	1,672,800
418,050	2	4180.50	4182.25	2	418,225
3,553,212	17	4180.25	4182.50	10	2,091,250
209,000	1	4180.00	4182.75	1	209,138
626,925	3	4179.50	4183.00	5	1,045,750
208,925	1	4178.50	4183.25	2	418,325
1,253,475	6	4178.25	4183.75	7	1,464,312
626,625	3	4177.50	4184.00	6	1,255,200
417,700	2	4177.00	4184.50	21	4,393,725
417,625	2	4176.25	4184.75	1	209,238
417,500	2	4175.00	4185.00	1	209,250
208,738	1	4174.75	4185.25	1	209,262
626,138	3	4174.25	4185.50	2	418,550
208,700	1	4174.00	4186.25	1	209,312
208,675	1	4173.50	4186.50	1	209,325
1,251,975	6	4173.25	4187.00	1	209,350
417,125	2	4171.25	4187.50	1	209,375
208,288	1	4165.75	4191.25	1	209,562
1,665,700	8	4164.25	4196.00	1	209,800
2,285,938	11	4156.25	4220.50	1	211,025
27,060,000	132	4100.00	4221.25	1	211,062
203,788	1	4075.75	4221.50	1	211,075

Time	Price	Volume
08:07:54.738	4181.50	1
08:07:53.072	4181.50	1
08:07:22.338	4181.25	3
08:07:22.338	4181.25	1
08:07:22.338	4181.25	1
08:07:22.338	4181.25	1
08:07:22.338	4181.25	1
08:07:22.338	4181.25	3
08:07:22.338	4181.25	5
08:07:22.338	4181.25	1
08:07:22.338	4181.25	4
08:07:07.068	4181.50	1
08:07:05.457	4181.50	1
08:06:53.508	4181.50	1
08:06:23.538	4181.25	1
08:06:21.503	4181.25	2
08:06:21.503	4181.25	1
08:06:14.708	4181.25	1
08:06:14.708	4181.25	1
08:06:14.708	4181.25	5
08:06:13.097	4181.25	1
08:06:13.097	4181.25	1
08:06:12.688	4181.25	1
08:06:12.688	4181.25	4
08:06:12.688	4181.25	2
08:06:12.688	4181.25	1
08:06:12.688	4181.25	1
08:06:12.688	4181.25	5
08:06:10.287	4181.25	4
08:06:09.088	4181.25	2
08:05:54.699	4181.25	1
08:05:54.699	4181.25	5
08:05:54.699	4181.25	2
08:05:54.699	4181.25	1
08:05:54.699	4181.25	1
08:05:47.538	4181.25	1
08:05:47.538	4181.25	1
08:05:43.105	4181.25	1

## 12 SDK

Additional methods added to the Study class to provide more interaction with the mouse:

- a. `onDoubleClick()` – Allows the study to respond to double-click events.
- b. `onClick()` – Respond to single click events.
- c. `onWheelMoved()` – Respond to mouse wheel events.

## 13 Other Enhancements

- a. Exit Strategy Orders – Placeholder orders will now be displayed for the exit orders that will be generated when an entry order is filled.
- b. Shift Wheel Action – Added an option to change the behavior of holding down the shift key when using the mouse wheel. By default, this will adjust the vertical spacing.
- c. Erase Chart Shortcut – Added Erase option to the mouse shortcuts for the chart. This shortcut would allow you to use a keyboard modifier to erase chart elements with a mouse click.
- d. Rithmic – Support for delayed accounts.
- e. Java 16 – Updated to the latest version of Java/JavaFX.