



MotiveWave™  
What's New in Version 6 Beta 1

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# 1 Introduction

Welcome to MotiveWave™ version 6 Beta 1! We are excited to launch our first beta of version 6 to give you a preview of some of the features we are adding. **Note:** since this is a beta version there may be some issues with the new features as they have not been fully tested yet. Please report any issues or enhancement suggestions to [support@motivewave.com](mailto:support@motivewave.com)

## 2 Cloud Workspaces

Cloud workspaces are hosted on MotiveWave's server and can be accessed from any computer using the same license key. Cloud workspaces hold all of their data in the MotiveWave™ cloud (including settings, instruments analysis etc) but also hold a local copy so that the workspace can be opened in "offline" mode. Any changes that are made to the workspace in "offline" mode will be synchronized with the cloud workspace the next time you open the workspace in "online" mode.

### 2.1 Synchronization

Workspace synchronization involves uploading new or changed files and removing deleted files from the cloud repository. For efficiency, untouched files will not be included in the synchronization process. Synchronization occurs at the following times:

1. **Startup** – When the workspace is first loaded, it will be synchronized with the cloud to ensure that the latest files are loaded to the local disk.
2. **Interval** – MotiveWave™ will run the synchronization process at a constant interval (current every minute) to check for changes and upload them to the cloud. This happens in the background and will not affect your usage of MotiveWave™.
3. **Shutdown** – When closing the workspace, any remaining changes will be synchronized with the cloud.
4. **Manual** – At any point you can force the synchronization to occur by choosing **Configure -> Synchronize Workspace** from the Console menu bar.

### 2.2 Limitations

Cloud workspaces currently have the following limitations:

- Trial Accounts:
  - Maximum of 1 Cloud Workspace
  - Maximum workspace size is 50 MB
- Paid Accounts:
  - Maximum of 3 Cloud Workspace
  - Maximum workspace size is 200 MB

### 2.3 Creating/Editing Cloud Workspaces

A cloud workspace can be created by choosing "MotiveWave Cloud" from the location drop down in the Create Workspace dialog (see screen shot below). Existing workspaces may also be moved to the cloud in the Edit Workspace dialog. Note: you cannot change the name of a cloud workspace.

The Manage Workspace dialog has been modified to show local vs cloud workspaces (see below).



Create Workspace

General Information

A workspace contains connection details, configuration settings and analyses. Workspace contents can be stored locally (on the hard drive) or in the MotiveWave Cloud (accessible from other computers). **Note:** Limitations to the size and number of cloud workspaces may apply.

Workspace Name  Eg: 'jsmith123' or 'simulated acct'

Location 

MotiveWave Cloud

Local Disk

MotiveWave Cloud

Connections

The table below contains all of the brokers/data services that are configured for this workspace. Click **Add Connection** to add a new connection or select an existing connection and click **Modify** to change its properties.

Add Connection

Modify

Remove

up

down

Name	Service
IB	Interactive Brokers
CC	CryptoCompare

Create Workspace

Cancel

Manage Workspaces

Workspaces are used to manage connection(s) to brokers and/or data services and to store information such as analyses, scans, open charts, layouts, instruments or watch lists. The table below contains existing workspaces.

Name	Service	Location	+
Demo	Interactive Brokers	MotiveWave Cloud	<div></div>
ib	Interactive Brokers	Local Disk	
goog	Google/Yahoo	Local Disk	
iq-ib	IQFeed	Local Disk	
fxiq	FOREX.com	Local Disk	
IQ_TS	IQFeed	Local Disk	
CQGA	CQG	MotiveWave Cloud	
rithmic	Rithmic	Local Disk	
cctest	Coinigy	Local Disk	
tradier	Tradier	Local Disk	
truedata	TrueData	Local Disk	
cqg-iq	CQG	Local Disk	

New Workspace

Modify

Remove

up

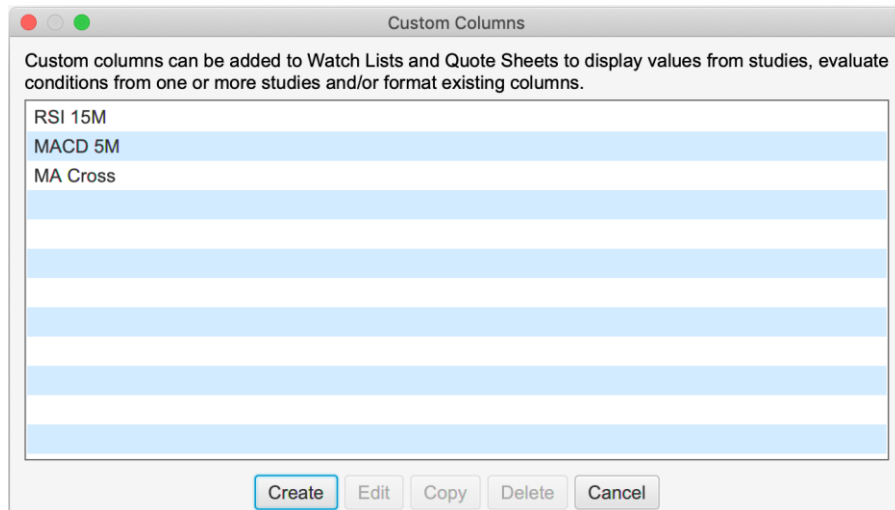
down

Close

### 3 Custom Watch List Columns

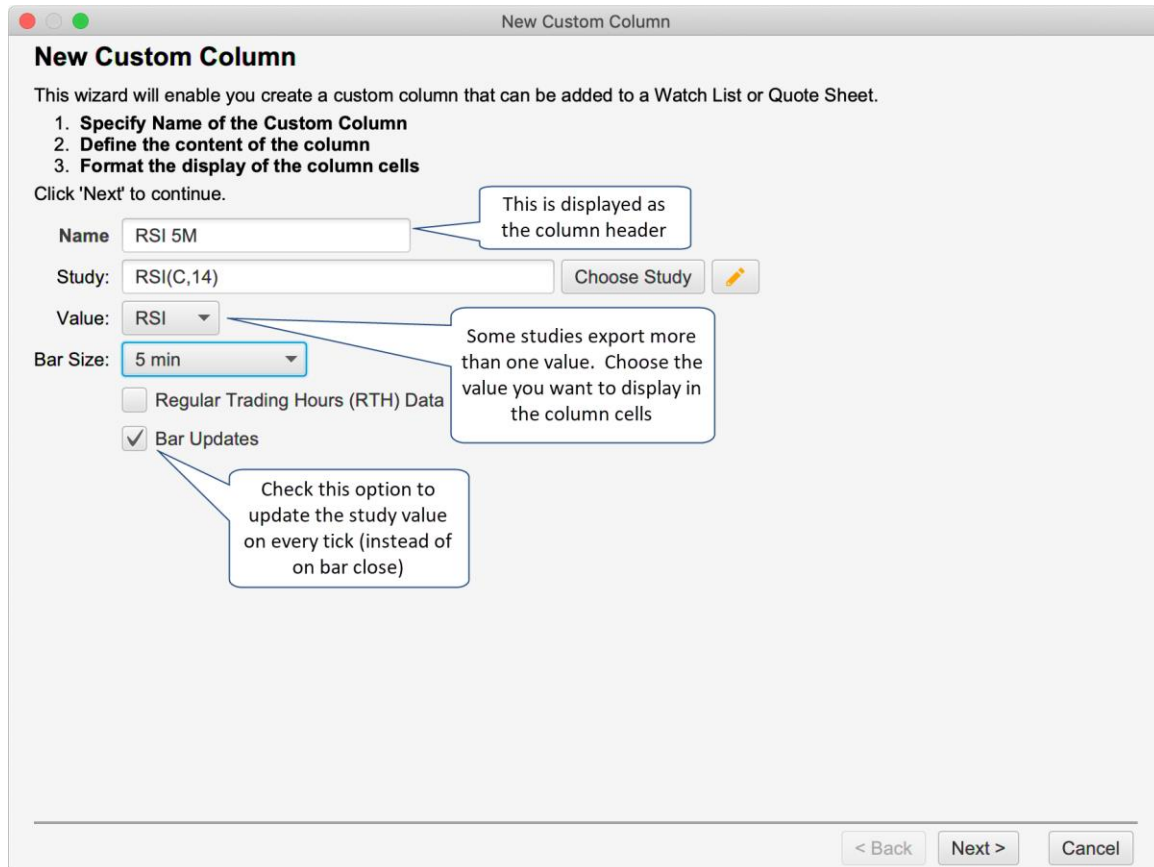
Customized columns may be defined and added to Watch Lists and Quote Sheets. These columns will display a value that is generated by built-in or custom study. Formatting may also be applied to the column cells to make it easier to visualize trading opportunities.

Custom columns can be managed by choosing **Configure -> Custom Columns** from the Console menu bar.



Click on the **Create** button to create a new custom column. This will open the Create Custom Column wizard to guide you through the steps.

In the example below, we have chosen the RSI study on a 5-minute interval and live updates (instead of on bar close).




**New Custom Column**

This wizard will enable you create a custom column that can be added to a Watch List or Quote Sheet.

1. **Specify Name of the Custom Column**
2. **Define the content of the column**
3. **Format the display of the column cells**

Click 'Next' to continue.

Name:  This is displayed as the column header

Study:  Choose Study 

Value:  Some studies export more than one value. Choose the value you want to display in the column cells

Bar Size:

☐ Regular Trading Hours (RTH) Data

☒ Bar Updates Check this option to update the study value on every tick (instead of on bar close)

< Back   Next >   Cancel

The next panel allows you to change the display of the cells in the custom column. The **width** attribute is the default width for the column (you can still adjust the column size in the watch list). There are several different cell types to choose from:

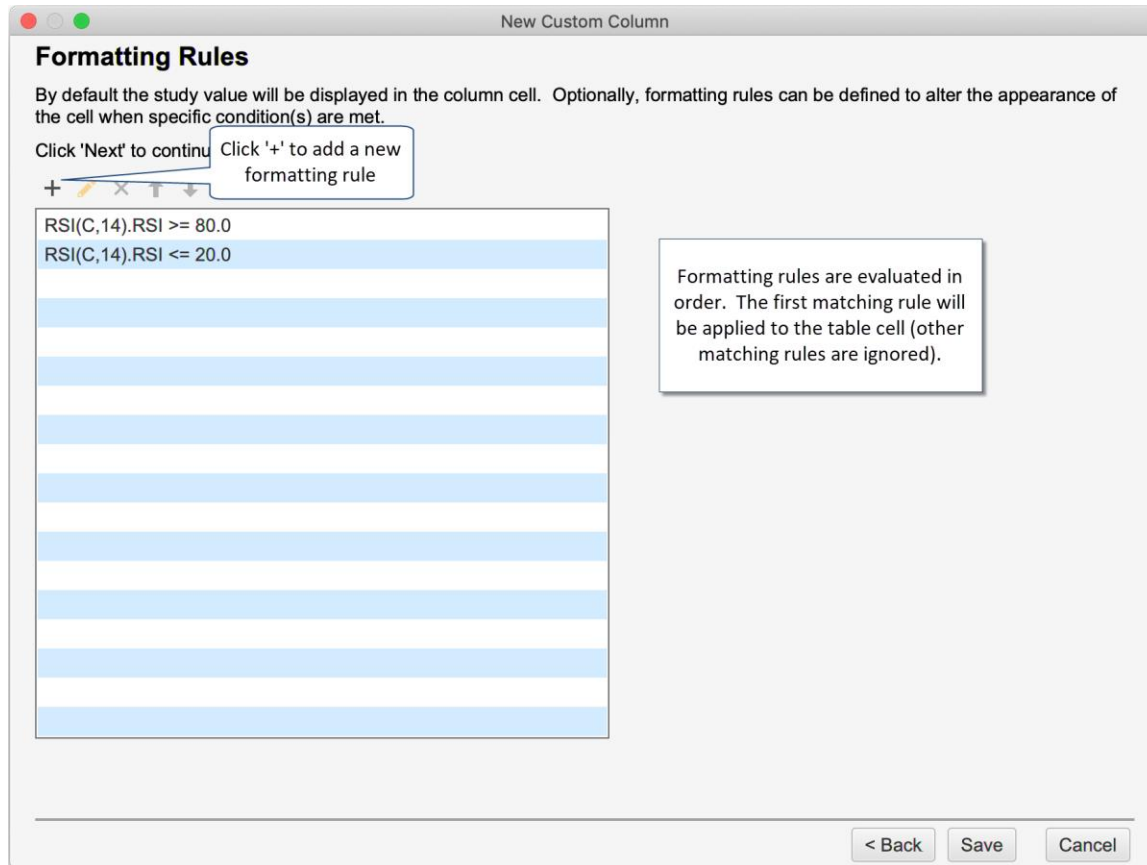
1. **Plain** – plain cell with no formatting.
2. **Positive/Negative** – Displays a blue/green or red background if the value positive or negative.
3. **Arrow Up/Down** – Displays an up or down arrow if the latest value is higher/lower than the previous value.
4. **Meter** – Fills the background from the left (or right depending on the alignment) with a percentage of the cell width using the current value of the column. For example with an RSI value of 90 (RSI values range from 0 – 100) it would fill 90% of the cell background with the given color.
5. **Meter/Arrow** – Combination of the Meter and Arrow types above.

The screenshot shows a macOS-style window titled "New Custom Column". Inside, the "Display Settings" panel is active. It contains the following elements:

- Display Settings** (Section Header)
- Text: "Select the default display settings below."
- Text: "Click 'Next' to continue."
- Width:** A text box containing "100" with a small up/down arrow icon.
- Align:** A dropdown menu currently showing "Right".
- Cell Type:** A dropdown menu currently showing "Plain". A list of options is visible below it:
  - Plain (highlighted in blue)
  - Positive/Negative
  - Arrow Up/Down
  - Meter
  - Meter/Arrow

At the bottom right of the window are three buttons: "< Back", "Next >", and "Cancel".

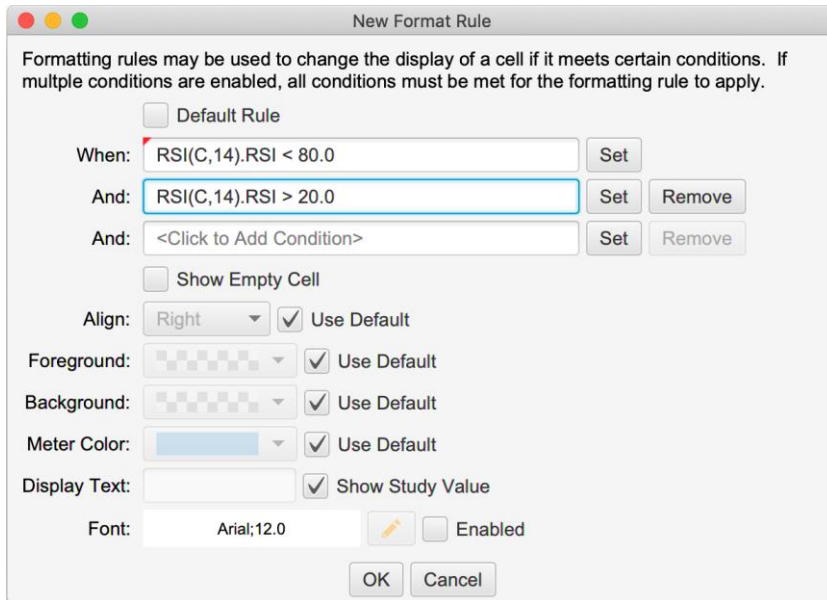
The last panel in the wizard allows you to specify custom formatting rules to change the display of the column based on one or more conditions. These rules are evaluated in order and the first matching rule will be applied to the table cell.



Formatting rules can have multiple conditions. The rule is applicable only if all of the conditions are met. There are several formatting options:

1. **Align** – Text alignment (Left, Middle, Right).
2. **Foreground** – Foreground color (text color).
3. **Background** – Background color for the cell.
4. **Meter Color** – Fill color for the meter (only available if cell type is meter or meter/arrow)
5. **Display Text** – Optionally the text displayed in the cell can be a static value (instead of the study value). This can be useful if the study value is not important and you want to display a buy or sell message for example.
6. **Font** – Override for the default cell font.

In the example below, we are changing the format of the cell when the RSI value is between 20 and 80.



Formatting rules may be used to change the display of a cell if it meets certain conditions. If multiple conditions are enabled, all conditions must be met for the formatting rule to apply.

☐ Default Rule

When:

And:

And:

☐ Show Empty Cell

Align:  ☒ Use Default

Foreground:  ☒ Use Default

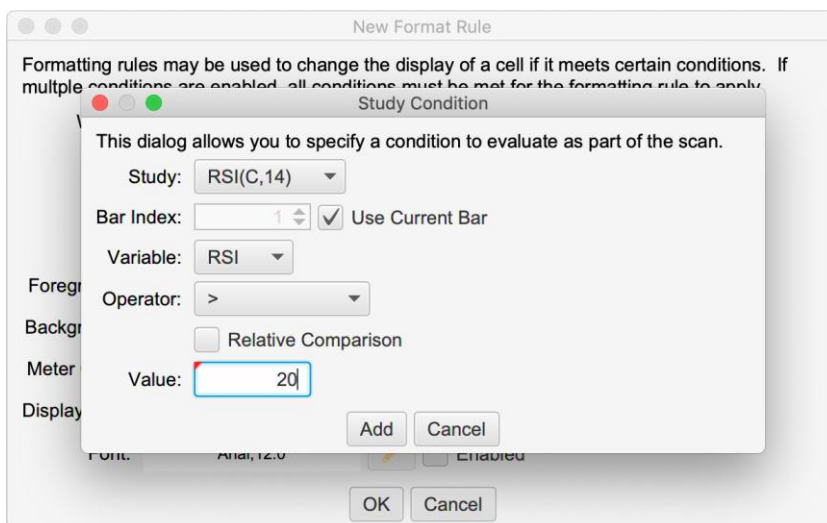
Background:  ☒ Use Default

Meter Color:  ☒ Use Default

Display Text:  ☒ Show Study Value

Font:   ☐ Enabled

Study conditions can be a simple comparison between a study value and a static value or you can compare it with another study value (choose Relative Comparison). By default, the latest study value is used, but you can use the closing value for older bars by unselecting the **Use Current Bar** option.



Formatting rules may be used to change the display of a cell if it meets certain conditions. If multiple conditions are enabled, all conditions must be met for the formatting rule to apply.

**Study Condition**

This dialog allows you to specify a condition to evaluate as part of the scan.

Study:

Bar Index:  ☒ Use Current Bar

Variable:

Operator:

☐ Relative Comparison

Value:

The screen shot below shows a watch list with 4 custom columns displayed. Custom columns can be added to a watch list/quote sheet by clicking the edit button (pencil icon in the top right tool bar section). Alternatively click on the + (plus) button in the top right corner of the table and select the custom columns that you want to display. For convenience you can also right click on a column and edit its properties.

Symbol	Expiry Date	Ask	Ask Size	Bid	Bid Size	Volume	Last Price	Last Time	MACD 5M	RSI 5M	MA Cross	RSI 1M
AAPL		178.64		178.62			179.03	11:18:00	0.030614	56.4	Above	60.2
BRK.B		218.34		218.32			218.58	11:17:00	0.13296	59.7	Above	57.4
BTC/USD		4246.47		4246.45		394M	4218.97	11:18:05	-26.175	29.8	Below	40.7
CLEF19	2018-12-18	51.65	6	51.64	13	717.7K	51.64	11:18:09	0.056431	40.2	Above	20.6
EPZ18	2018-12-20	2745.75	87	2745.50	41	1.08M	2745.75	11:18:09	1.8898	66.6	Above	64.3
ETH/USD		117.75		117.73		99.9M	117.00	11:18:03	-0.53393	54.4	Below	35.9
EURUSD		1.13818		1.13816			1.13817			45.4		45.4
FB		138.54		138.52			138.70	11:17:00		64.0		64.0
GBPUSD		1.27730		1.27728			1.27729			54.3		54.3
IBM		122.44		122.42			122.62	11:17:00	0.10271	57.6		57.6
MSFT		110.41		110.39			110.68	11:17:00	0.15715	62.3		62.3
ORCL		47.95		47.93			48.06	11:17:00	0.053309	73.3		73.3
TSLA		342.84		342.82			342.97	11:17:00	0.080796	53.6		53.6
TWTR		31.37		31.35			31.18	11:17:00	0.098364	28.7		28.7
USDCAD		1.32757		1.32755			1.32756		-0.00019	64.9		64.9
YMZ18	2018-12-20	25370	4	25369	1	154.7K	25370	11:18:08	14.174	65.5		65.5

### 3.1 Default Filter

A default filter may be used to apply formatting for cases that don't match the other filters. This can be particularly useful for reducing clutter in the watch list by showing an empty cell for values that are not of immediate interest.

Select the **Default Rule** option on the **Format Rule Dialog** to create a default rule. **Note:** only one default rule can be set for a custom column. The default rule is applied only if there are no other matching rules so the order in the list does not matter.

In the dialog below, we are creating a default rule to show an empty cell (with a '-'). In our example this will match cases where the RSI value is  $\leq 80$  and  $\geq 20$ .

New Format Rule

Formatting rules may be used to change the display of a cell if it meets certain conditions. If multiple conditions are enabled, all conditions must be met for the formatting rule to apply.

☒ Default Rule
   
☒ Show Empty Cell

Align: Right ☒ Use Default

Foreground:  ☒ Use Default

Background:  ☒ Use Default

Meter Color:  ☒ Use Default

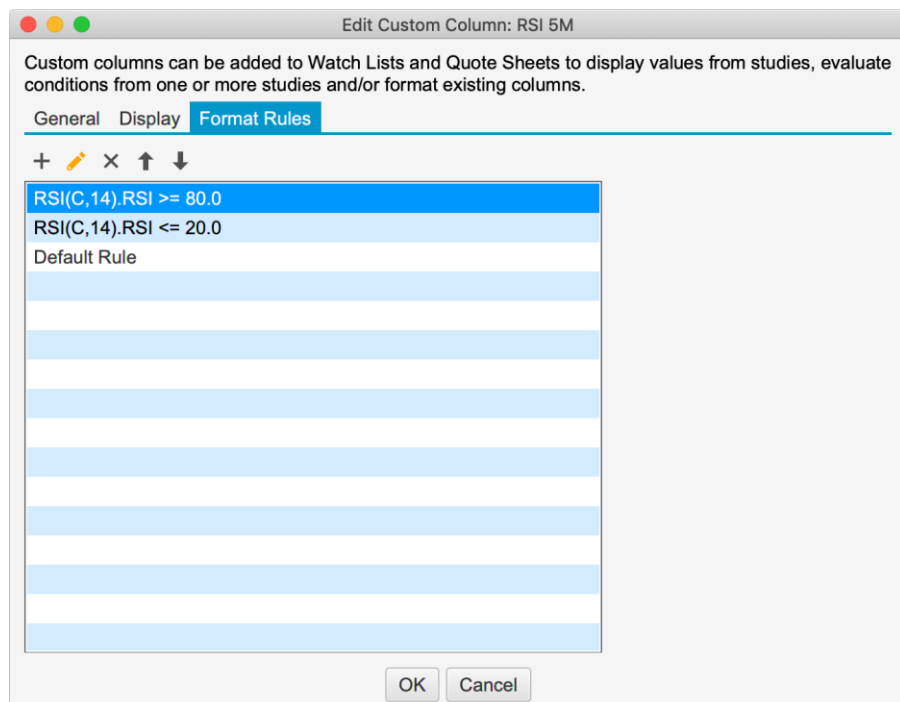
Display Text:  ☒ Show Study Value

Font: Arial;12.0 ☐ Enabled

OK

Cancel

The screen shot below shows all the rules that we have defined for this custom column. Please note that the position of the default rule does not matter. In our case it is the last rule in the list.



The screen shot below shows the default rule applied to the RSI 5M column. Rows that don't match RSI < 20 and RSI > 80 show a dash. This helps to clean up the watch list and draw your attention to the rows of interest.

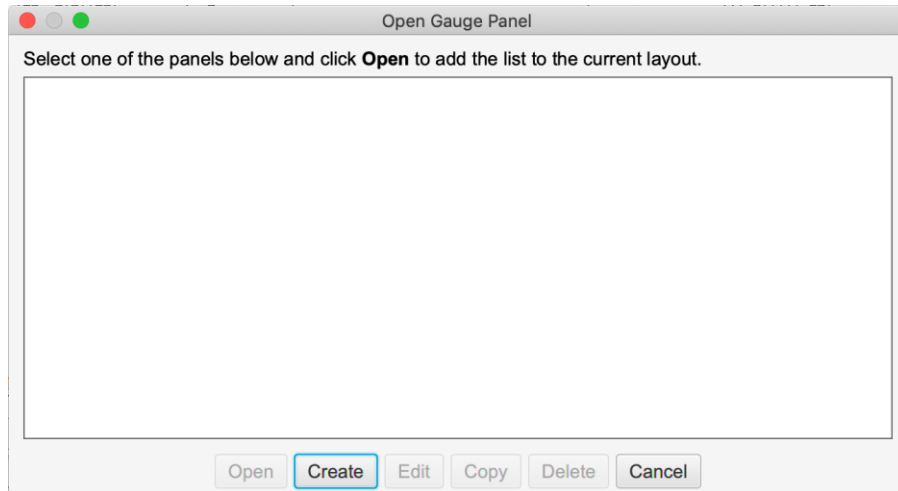
ne	MACD 5M	RSI 5M ▲	RSI 1M		+
29:31	-0.00001	6.6	57.1		
09		8.5	0.0		
15		-	0.0		
29		-	26.9		
28:50	-0.00000	-	40.6		
24:05	-0.00000	-	22.9		
29:25	-0.0019294	-	6		
	-0.00058	-	2		
29:25	-0.00003	-	27.8		
22:41	-0.00019	-	12.5		
29:03	-0.00000	-	18.0		
28:12	-0.00000	-	52.3		

Matching Rules show custom formatting

Default Rule Shows '-'





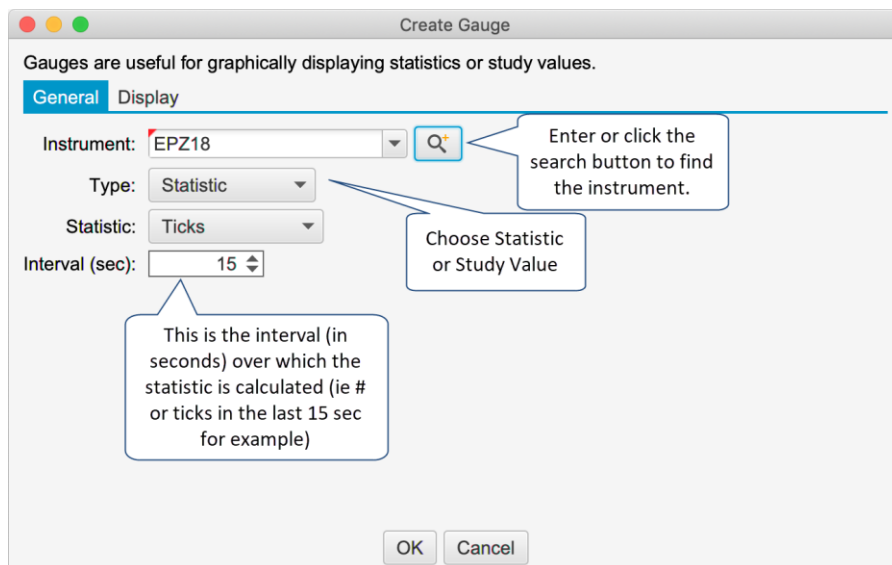


The value for a gauge is computed from a single instrument although you could use a custom instrument to combine multiple instruments.

## 4.1 Statistic Gauges

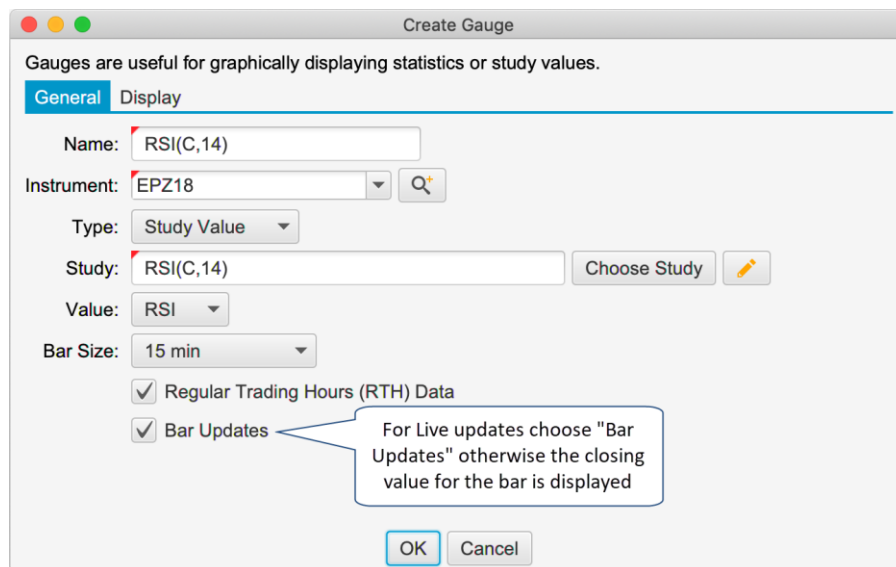
The following options are available for statistics:

1. **Ticks** – Displays number of ticks that occurred over the given interval (in seconds). This is often used to gauge the speed of the market.
2. **Price** – Current price.
3. **Volume** – Traded volume over the given interval (in seconds).
4. **Bid Vol** – Volume that occurred at the Bid Price.
5. **Ask Vol** – Volume that occurred at the Ask Price.
6. **Delta Vol** – Difference between Bid/Ask Volume (Ask Volume – Bid Volume).
7. **Delta Spread** – Difference between the current Best Bid/Ask sizes (Best Bid Size – Best Ask Size).
8. **Delta DOM** – Difference between the total Bid/Ask sizes (Total Bid Sizes – Total Ask Sizes) in the Depth of Market (DOM).



## 4.2 Study Value Gauges

Study Value Gauges display a value (and recent history) from a built-in or custom study. Select/configure a study and choose the value from the study that you would like to display. For live/real time updates select the **Bar Updates** option.



Create Gauge

Gauges are useful for graphically displaying statistics or study values.

**General** | Display

Name: RSI(C,14)

Instrument: EPZ18

Type: Study Value

Study: RSI(C,14) Choose Study

Value: RSI

Bar Size: 15 min

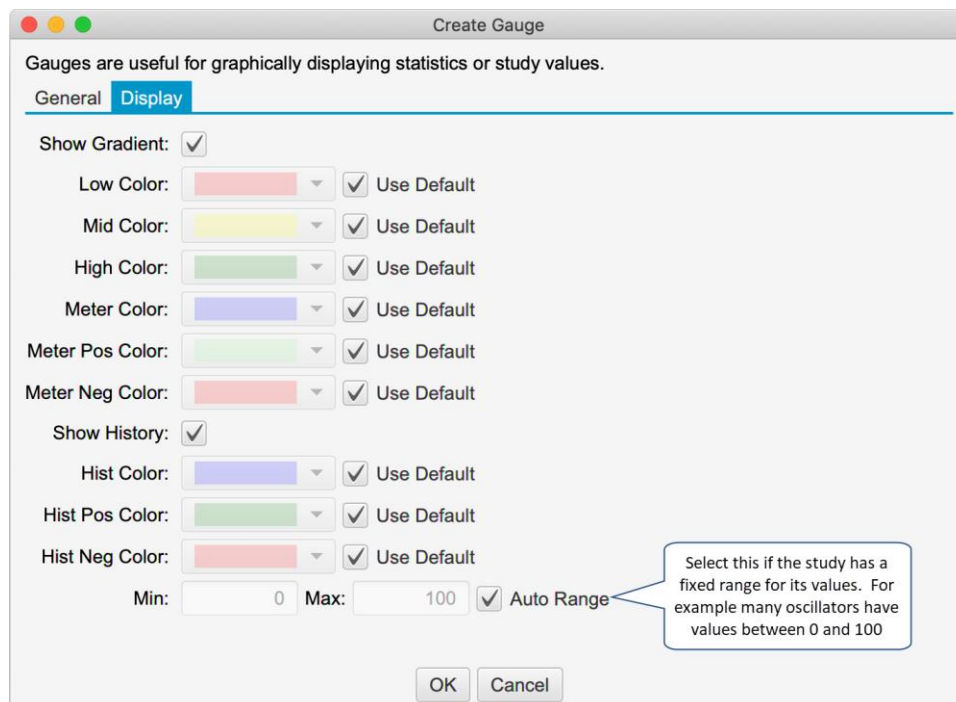
☒ Regular Trading Hours (RTH) Data

☒ Bar Updates

For Live updates choose "Bar Updates" otherwise the closing value for the bar is displayed

OK Cancel

Display options are available for both Study Value and Statistic Gauges under the Display tab:



Create Gauge

Gauges are useful for graphically displaying statistics or study values.

General | **Display**

Show Gradient: ☒

Low Color:  ☒ Use Default

Mid Color:  ☒ Use Default

High Color:  ☒ Use Default

Meter Color:  ☒ Use Default

Meter Pos Color:  ☒ Use Default

Meter Neg Color:  ☒ Use Default

Show History: ☒

Hist Color:  ☒ Use Default

Hist Pos Color:  ☒ Use Default

Hist Neg Color:  ☒ Use Default

Min: 0 Max: 100 ☒ Auto Range

Select this if the study has a fixed range for its values. For example many oscillators have values between 0 and 100

OK Cancel

## 5 Watch List Flags & Filtering

An icon (or flag) can be displayed on the left-hand side of a **Watch List** (or **Quote Sheet**) to highlight important or notable instruments. To assign a flag to an instrument right click on it and choose **Flag -> <Flag>**. A set of common flags will appear in the menu.

When a flag is assigned, it will appear to the left of the instrument (see below).

Flag is displayed to the left of the first column

Right click on a row and choose Flag -> <Flag type>

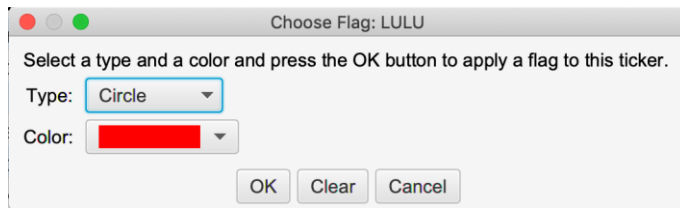
Click here to create a custom flag

Symbol	% Change	Last Price	Change	Description	Last Time
<b>Macro Watch</b>					
<b>Sector SPDRs</b>					
SPY	-0.22%	273.98	-0.60	SPY (NYSE)	17:00:00
XLU	-0.04%	54.78	-0.02	XLU (Pacific)	17:00:00
XLB	0.72%	54.47	0.39	XLB	17:00:00
XLK	-0.97%	67.30	-0.66	XLK	17:00:00
XLy	0.00%	0.00	0.00	XLy	17:00:00
XLP	0.16%	55.90	0.09	XLP	17:00:00
XLI	0.00%	0.00	0.00	XLI	17:00:00
XLE	0.65%	66.23	0.43	XLE	17:00:00
XLf	0.00%	0.00	0.00	XLf	17:00:00
XLV	0.33%	93.96	0.31	XLV	17:00:00
XTN	-0.74%	0.65	-0.74	XTN	12:59:03
<b>Stock Watch</b>					
NET	5.05%	70.00	5.05	Netflix, Inc.	16:59:21
★ AAPL	-1.32%	178.55	-2.39	AAPL (NASDAQ)	16:59:47
FB	1.05%	138.20	0.00	Facebook Inc.	16:59:45
TSLA	-1.32%	178.55	-2.39	Tesla Inc.	16:51:55
NVDA	-1.32%	178.55	-2.39	NVIDIA Corporation	16:59:20
AMZN	-7.50%	178.55	-2.39	Amazon.com Inc	16:57:39
COST	0.86%	178.55	-2.39	Costco	13:40:02
MSFT	-0.79%	178.55	-2.39	Microsoft Corporation	16:57:13
CAT	-0.32%	178.55	-2.39	Caterpillar Inc	16:23:02
GOOGL	-0.32%	178.55	-2.39	Google Inc	14:27:46
PNC	-0.32%	178.55	-2.39	PNC Financial Services Inc	13:05:29
BIDU	-0.32%	178.55	-2.39	Baidu Inc	16:53:20
BABA	-0.32%	178.55	-2.39	Alibaba Group Holding Ltd	16:59:53

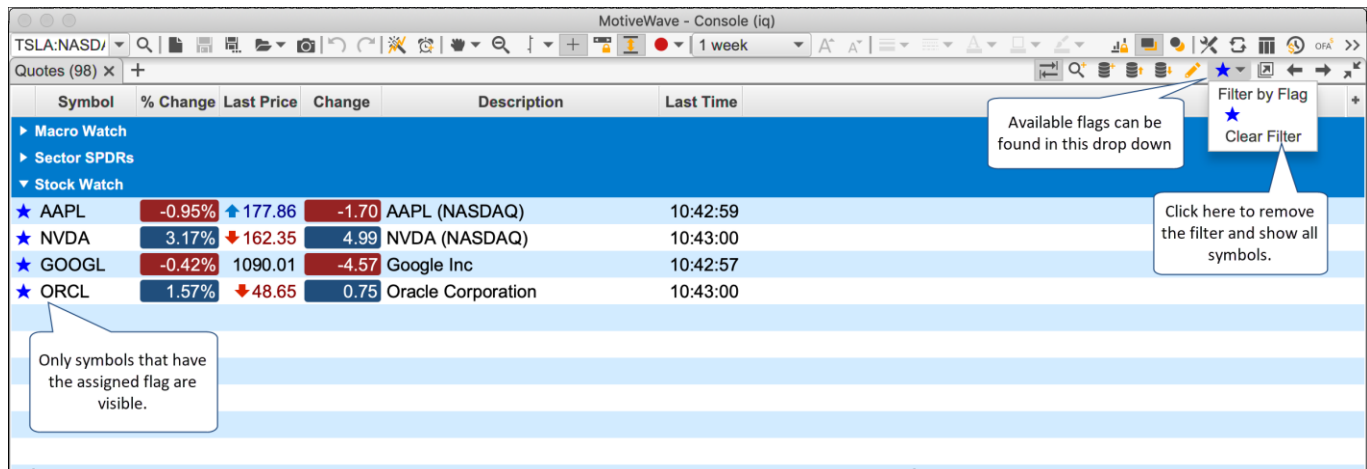
The following are the types of flags that are available:

1. Circle
2. Triangle
3. Square
4. Star
5. Flag
6. Check
7. Octagon

Custom flags can be created by choosing **More Flags** from the flag menu (see above). In the **Choose Flag** dialog you can select the type and the color. All recently used flags will appear in the **Recent** section of the flag menu (for convenience).



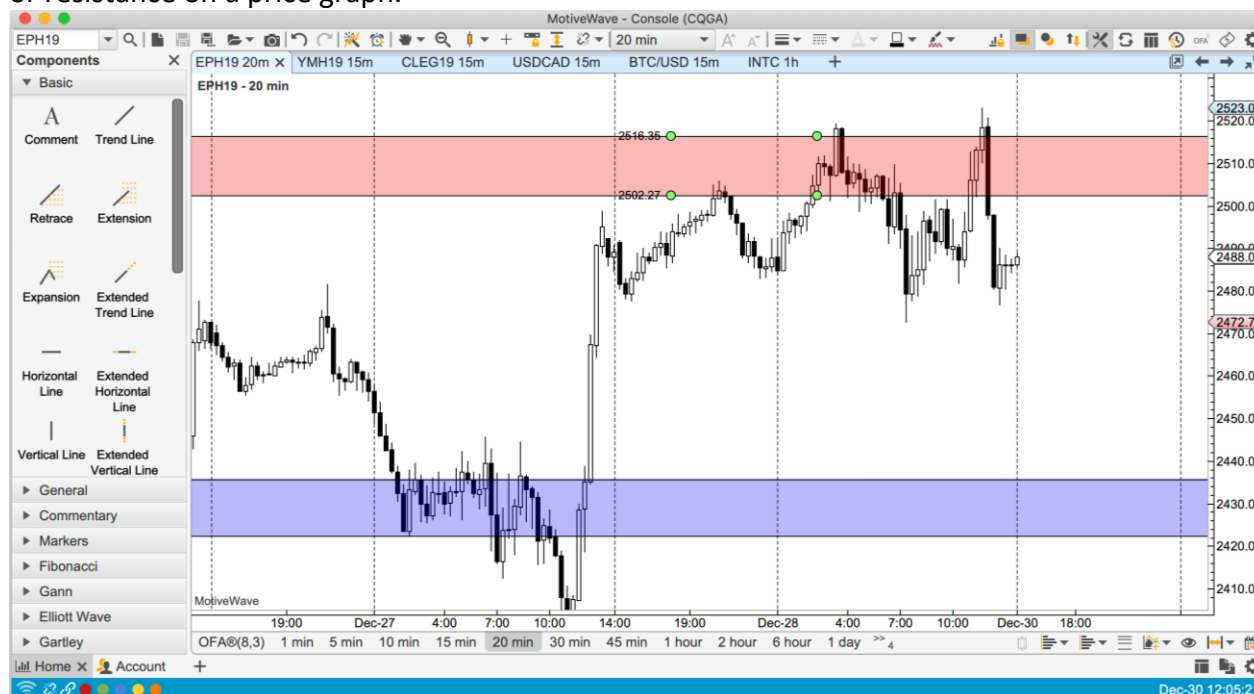
Filtering may also be applied to a Watch List or Quote sheet by selecting the flag from the filter button in the tool bar. Choose Clear Filter to show all instruments.



## 6 Components/Tools

### 6.1 Support / Resistance Zones

Support and Resistance zones are two new components that may be used to highlight an area of support or resistance on a price graph.

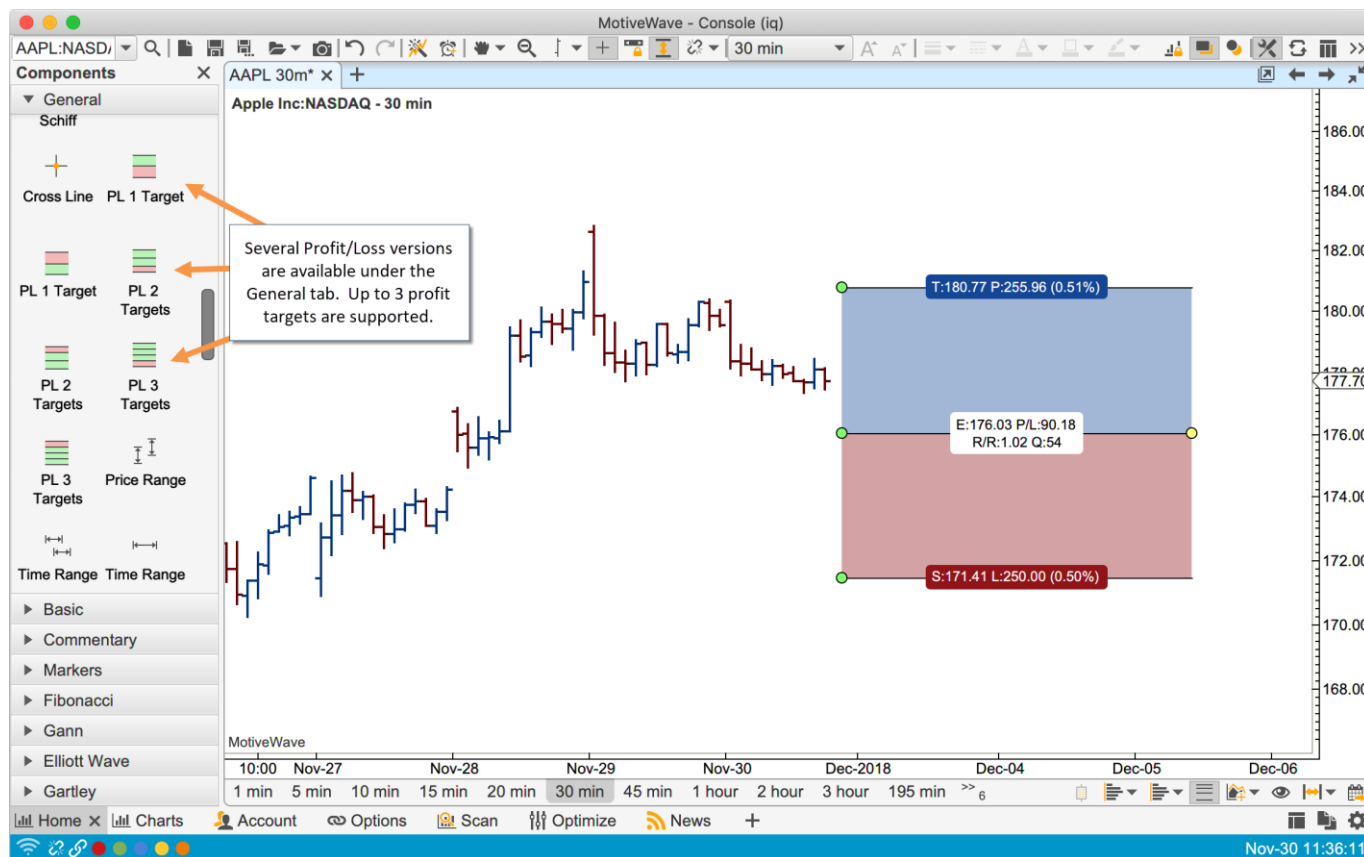


### 6.2 Profit/Loss Calculator

The Profit/Loss calculator component will calculate the potential profit (up to three targets) with a stop loss order. This component can be found under the General tab of the Components Panel. Risk levels can be computed using a percentage of your account or using a fixed amount. Labels shown on the component are shorted (to save space):

1. **T** – Target price for a take profit order (these are named T1, T2, T3 if multiple targets are used).
2. **P** – Profit Amount and percent of account. Each take profit order will include the total profit realized at that price.
3. **Q** – Quantity.
4. **E** – Entry price.
5. **P/L** – Profit/Loss calculated at the current price.
6. **R/R** – Risk/Reward ratio.
7. **S** – Stop Loss price.
8. **L** – Loss amount and percent of account for the stop loss order.

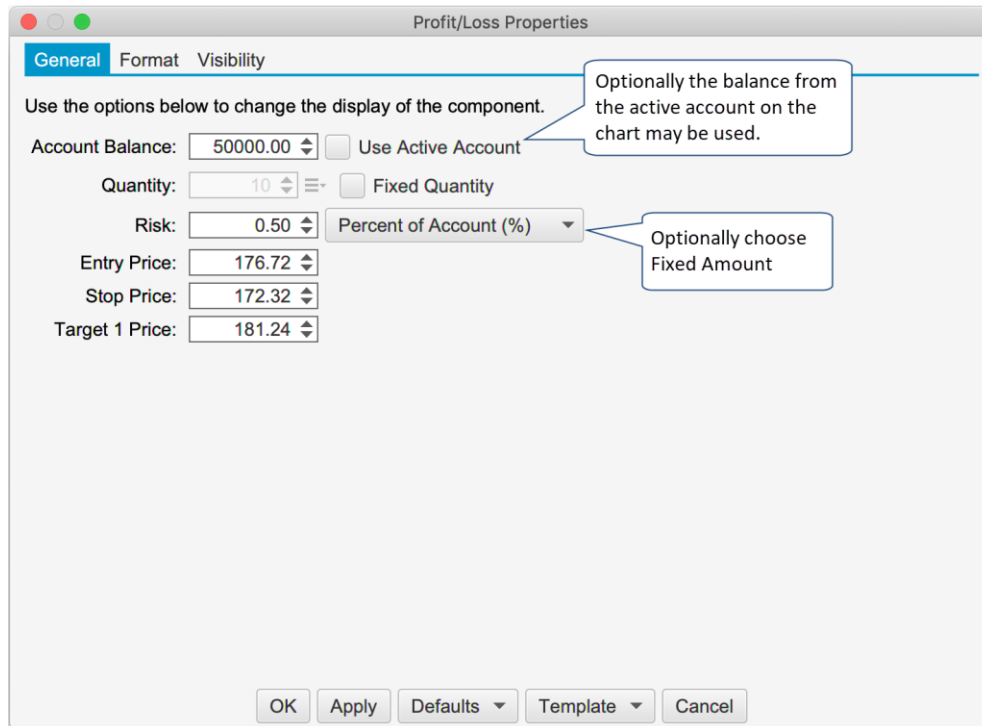
In the following screen shot, a PL component has been added to the chart with 1 profit target and a risk percent of 0.5% of the account value (50K in this case). Entry and exit quantities are calculated from the risk percent and position of the stop loss target.



You can change the behavior of the component from the Properties dialog (double click on the component). There two methods available for calculating risk:

1. **Percent of Account** – This option will dynamically calculate the amount at risk by taking a percentage of the account balance. This can either be statically defined (such as 50K) or using the current balance of the active account on the chart.
2. **Fixed Amount** – Enter a fixed dollar amount to put at risk.

If a fixed quantity is chosen, then the risk is dynamically computed based on the position of the stop order.



Profit/Loss Properties

General Format Visibility

Use the options below to change the display of the component.

Account Balance: 50000.00 ☐ Use Active Account

Quantity: 10 ☐ Fixed Quantity

Risk: 0.50 ☐ Percent of Account (%)

Entry Price: 176.72

Stop Price: 172.32

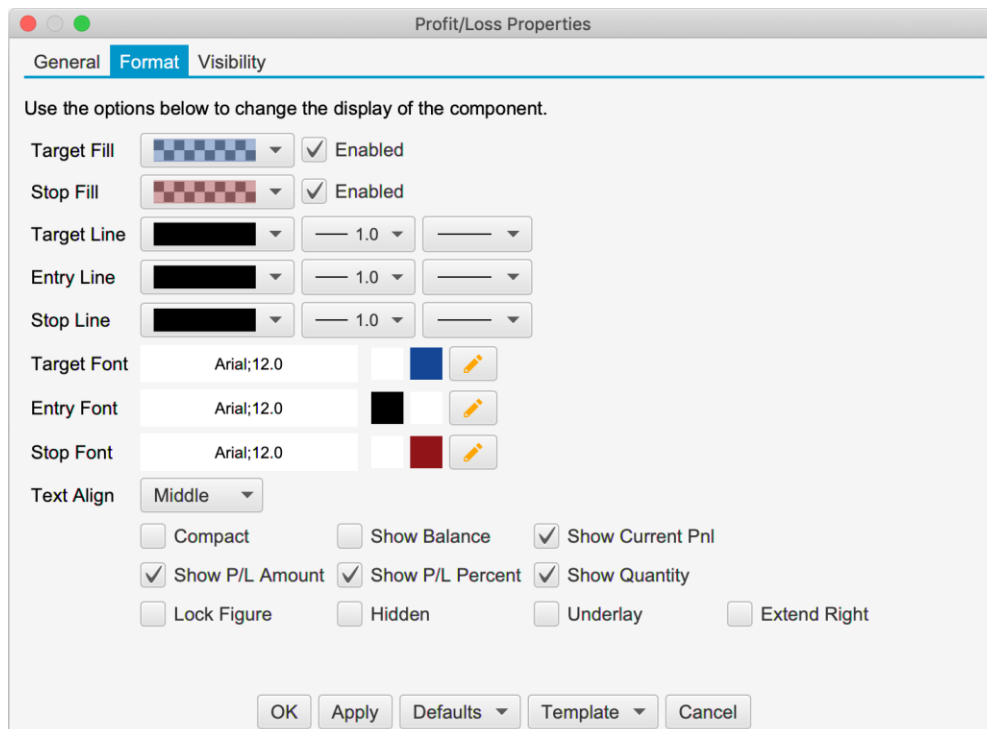
Target 1 Price: 181.24

OK Apply Defaults Template Cancel

Optionally the balance from the active account on the chart may be used.

Optionally choose Fixed Amount

The following screen shot shows the formatting options for the Profit Loss calculator.



Profit/Loss Properties

General Format Visibility

Use the options below to change the display of the component.

Target Fill ☒ Enabled

Stop Fill ☒ Enabled

Target Line 1.0

Entry Line 1.0

Stop Line 1.0

Target Font Arial;12.0

Entry Font Arial;12.0

Stop Font Arial;12.0

Text Align Middle

☐ Compact ☐ Show Balance ☒ Show Current Pnl

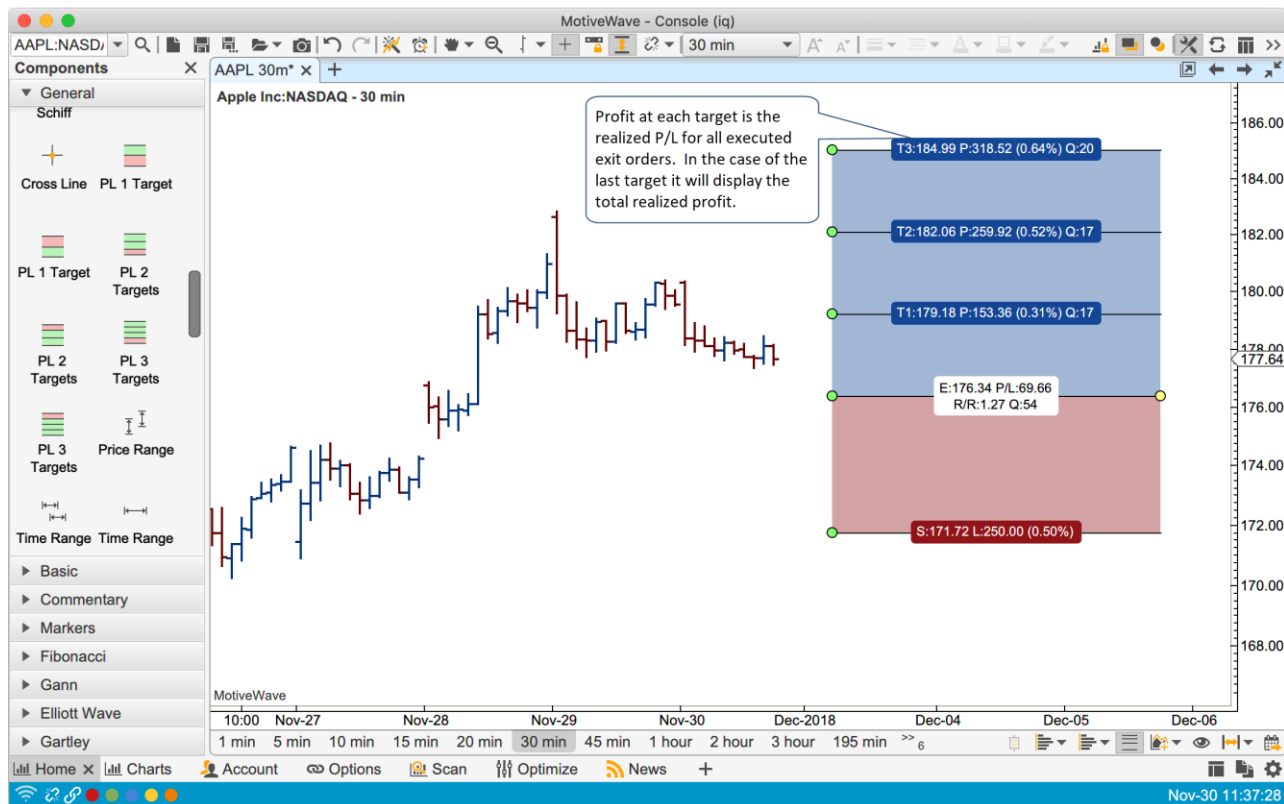
☒ Show P/L Amount ☒ Show P/L Percent ☒ Show Quantity

☐ Lock Figure ☐ Hidden ☐ Underlay ☐ Extend Right

OK Apply Defaults Template Cancel

Below is an example of a Profit Loss calculator with 3 targets. The profit calculated at each target represents the total profit (as opposed to the profit for the specific exit order). For example the profit displayed at target 2 will be the profit from the target 1 exit order plus the profit from the target 2 exit order plus the unrealized profit from the target 3 order.



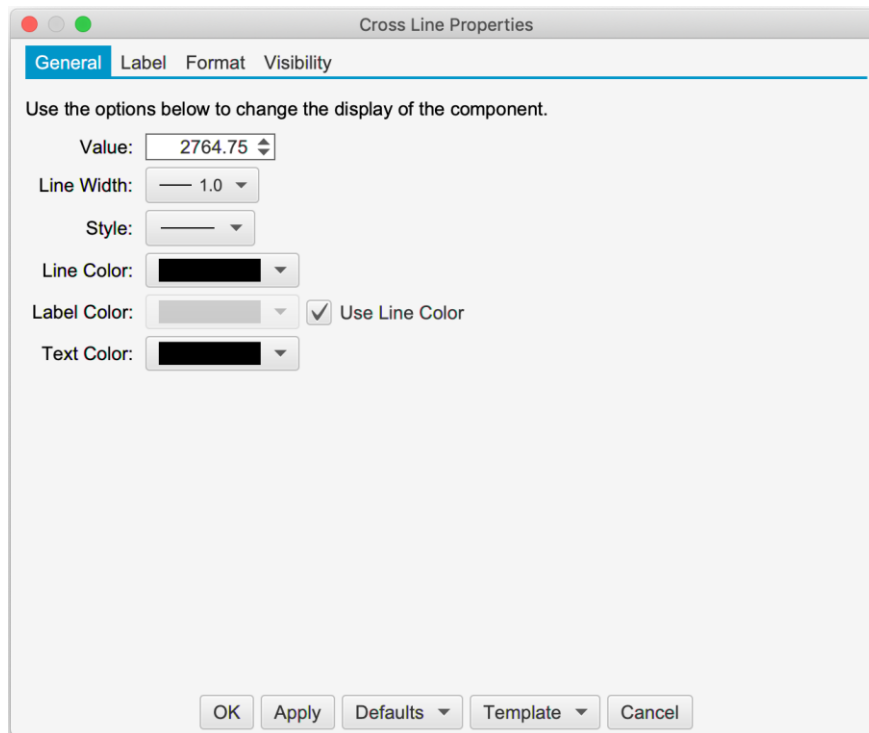


### 6.3 Cross Line Component

The cross-line component is a combination of a vertical guide and a horizontal guide. This component is available in the General panel. Below is an example of a cross line added to the price graph. Note: the vertical (time) guide will span all plots in the chart.

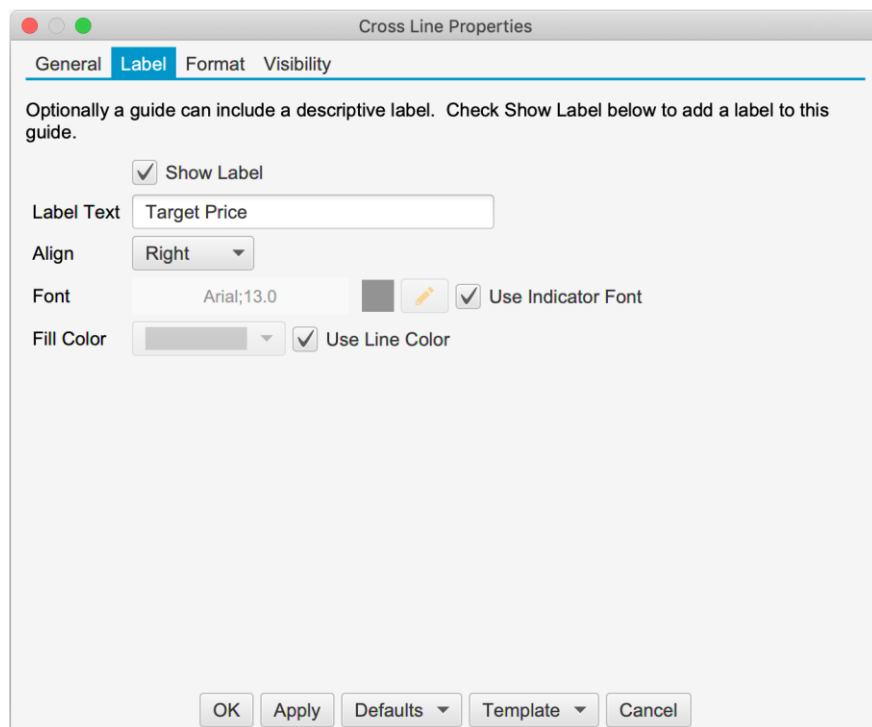


Double click on the cross line to show the properties (see below):

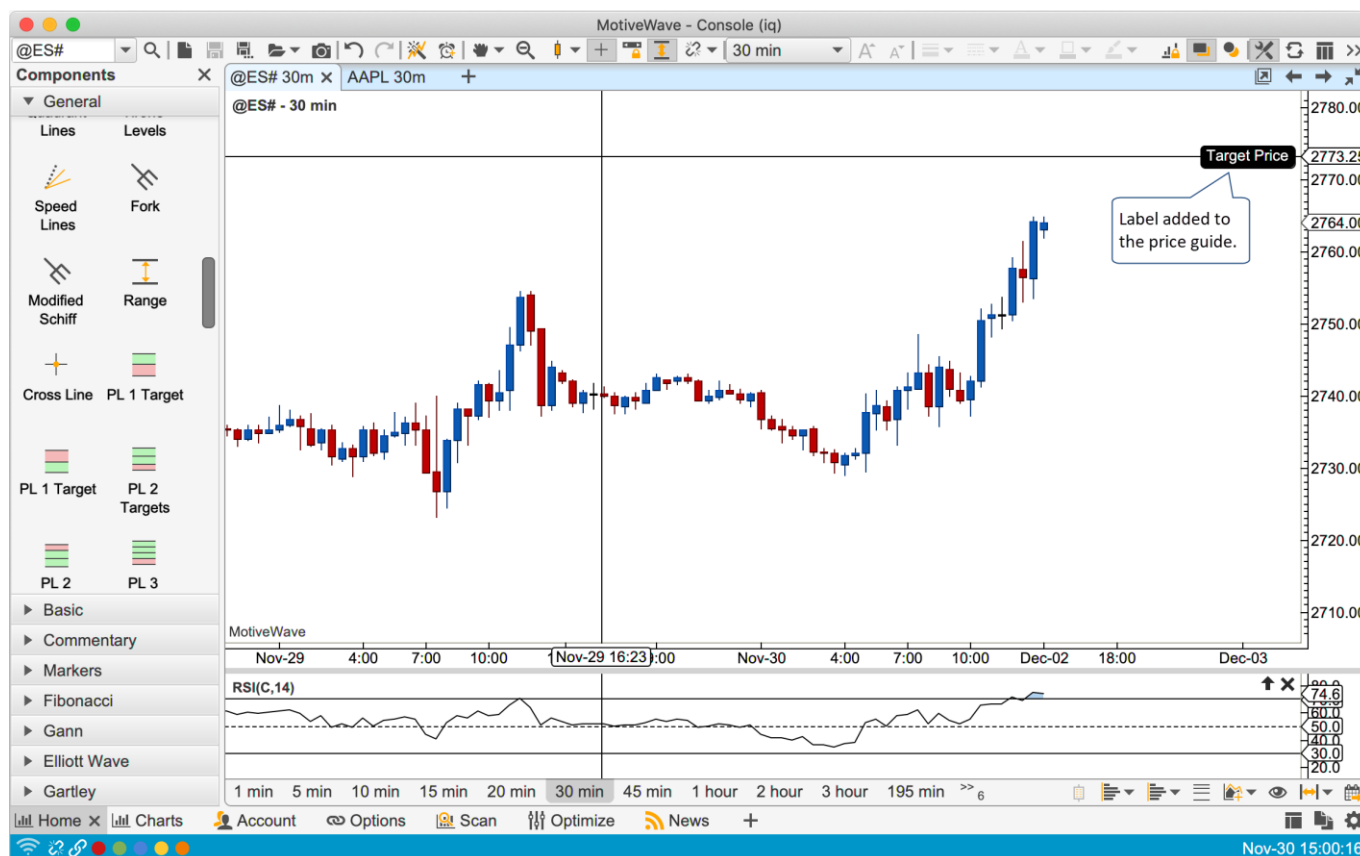


### 6.3.1 Labels

Optionally a label can be added to the horizontal (price) guide to help identify the purpose of the cross line. This option can be enabled from the Label tab of the properties dialog:



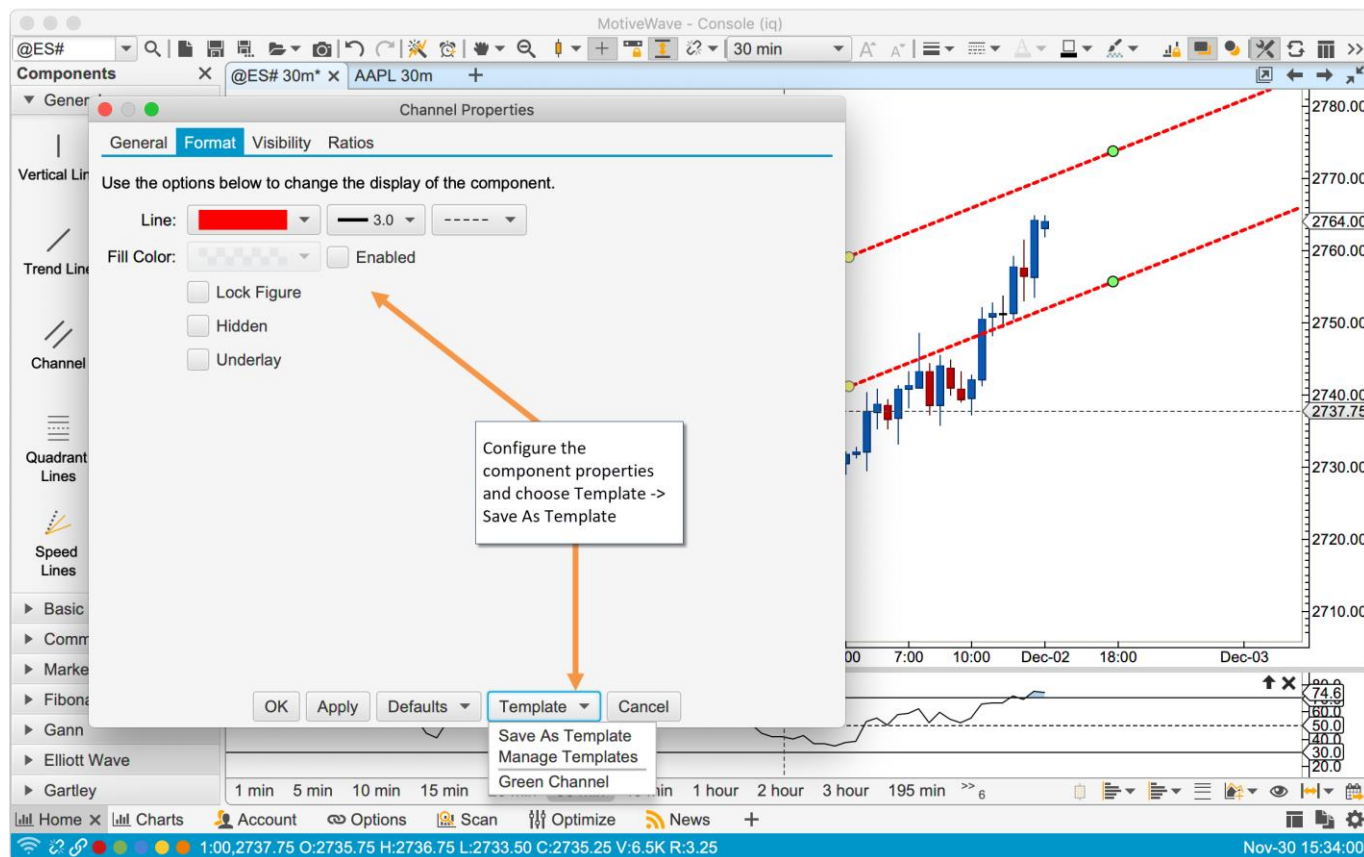
Below is the cross line with the label “Target Price” on the price guide:



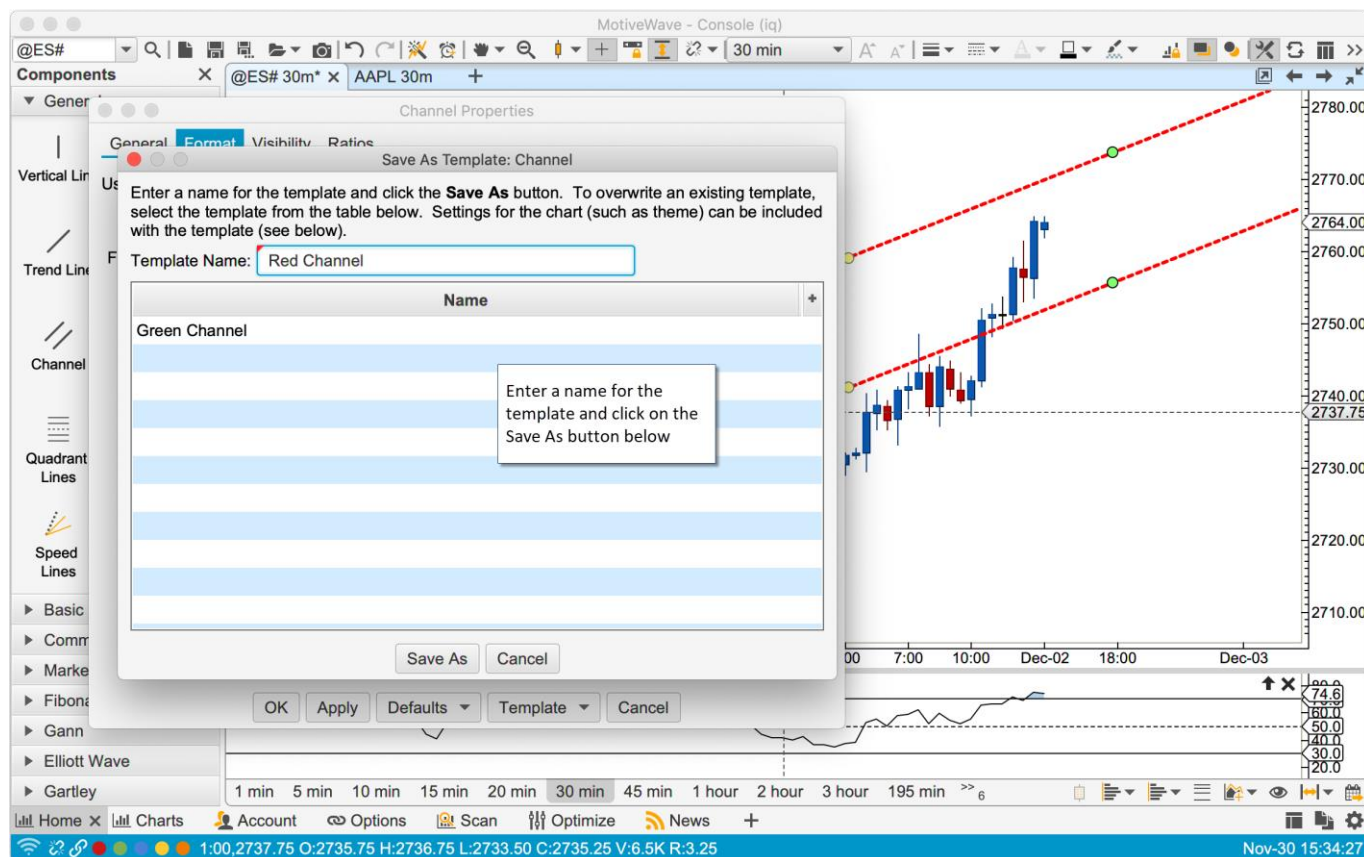
## 6.4 Component Templates

Component templates are similar to study templates in that they allow you to choose settings and formatting for a component and save it for later use. You can apply a component template via the context menu (right click) or from the **Template** menu button in the properties dialog.

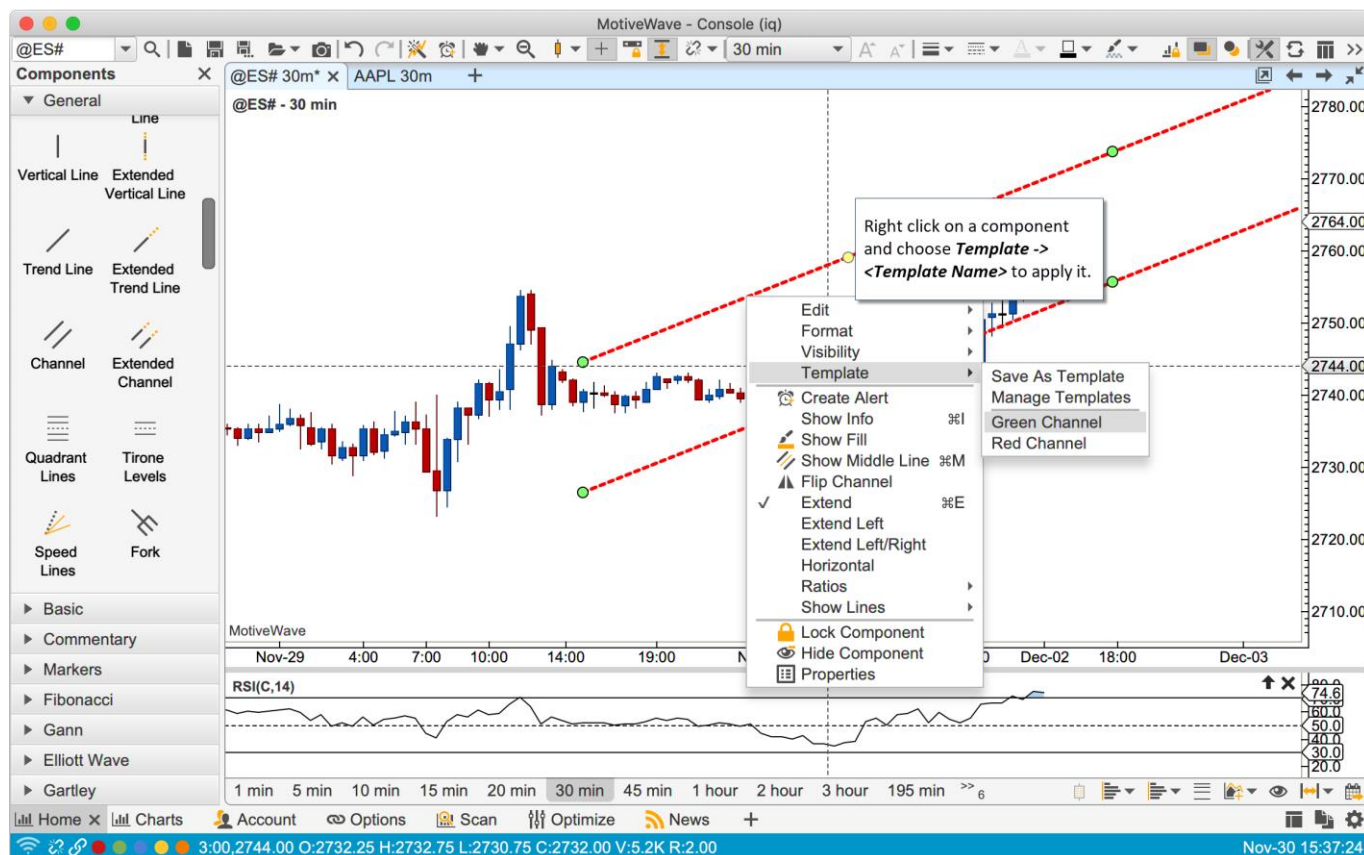
In the example below, the channel component is configured to use a thick red dashed line and the “extend right” attribute enabled. From the **Template** menu button choose “**Save As Template**”. Note: existing templates for this component will appear in this drop down. Choose a template to apply it to the active component.



In the **Save As Template** dialog enter the name of the template. Template names are scoped to the type of component so you can reuse the same name across different component types. Click on the **Save As** button to save the template.

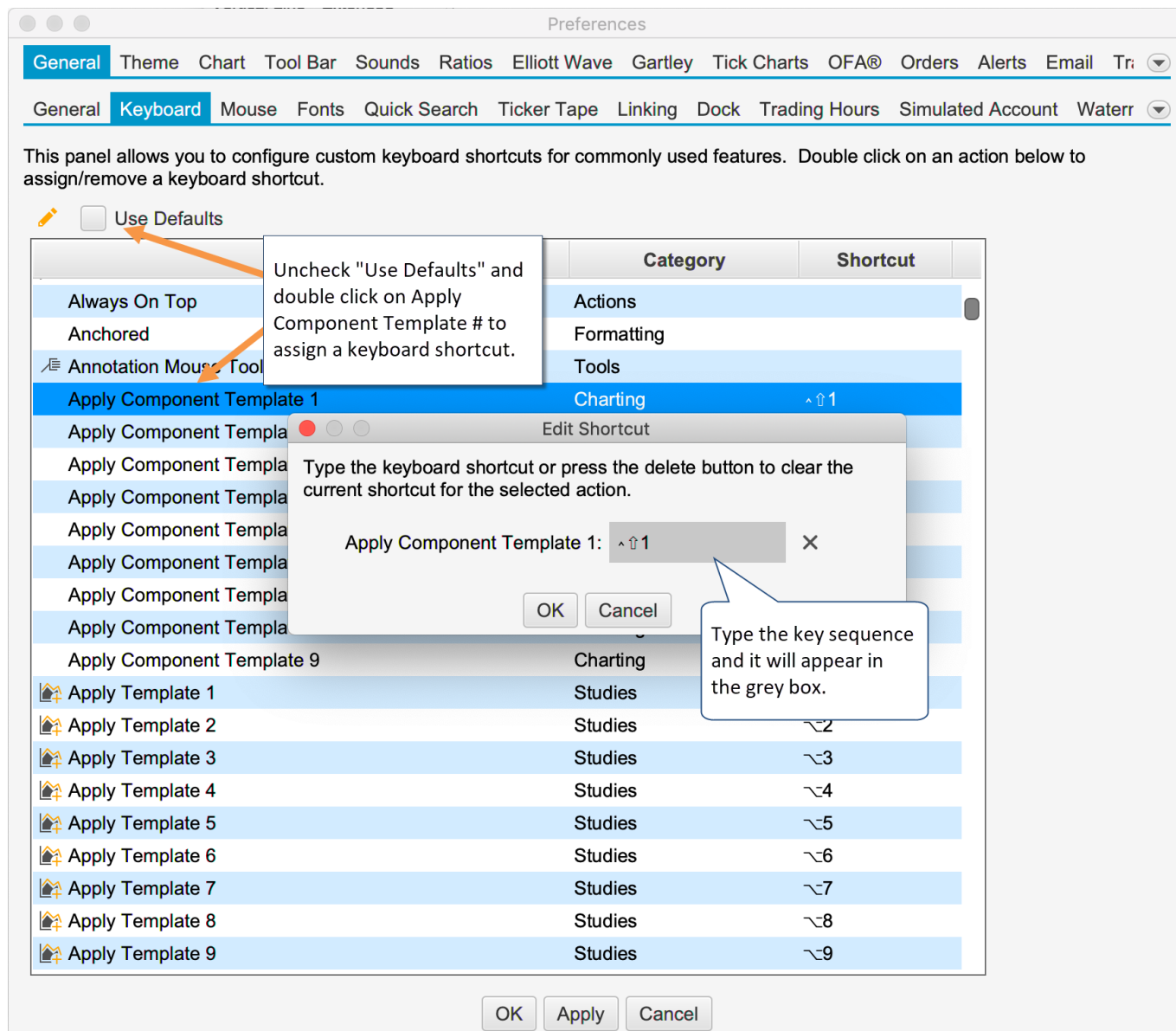


Right click on a component (in a chart) and choose *Template -> Template Name* to apply template settings.



## 6.4.1 Keyboard Shortcuts

Keyboard shortcuts can be assigned to the first 9 templates. Open the Preferences Dialog (**Configure -> Preferences** from the Console menu bar) and click on **General -> Keyboard**. Nine actions are available **Apply Component Template 1 – 9** in the action table. Double click on one of the actions to assign a keystroke (Note: you may need to uncheck **Use Defaults** if this is the first time assigning custom keystrokes).





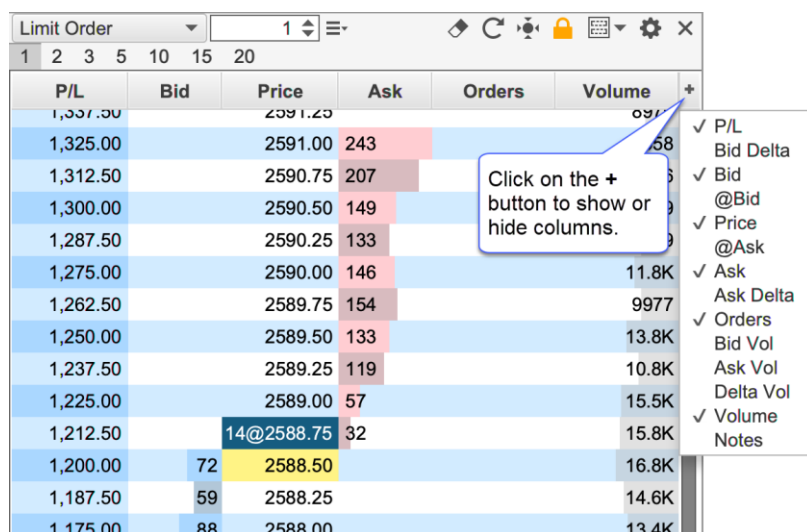
## 7 Advanced DOM

Some significant enhancements have been added to the Depth of Market panel (DOM). The default DOM layout is similar to the version 5 DOM with the exception of a single order column and 3 extra buttons added to the tool bar.



### 7.1 DOM Columns

Columns may be added/removed from the DOM table by click on the '+' button in the top right corner of the table (to the right of the column headers).



The following columns are available:

1. **P/L** – Profit/Loss calculated for each price level using the current open position.
2. **Bid Delta** – Tracks the difference in contracts added/removed from the current bid size (see Bid column) for all depth levels in the DOM book (see bid column). These values are calculated on every DOM book update and are reset when the last price changes.
3. **Bid** – Displays the quantities of the current buy orders at the given price.
4. **@Bid** – Tracks the contracts traded at the bid price since that last reset (see reset button on the tool bar).
5. **Price** – Displays the price level for the row. If “**Show Pips Only**” is enabled (see General tab of the Properties dialog), this will be rounded to the nearest pip (FOREX only).
6. **@Ask** – Tracks the contracts traded at the ask price since that last reset (see reset button on the tool bar).
7. **Ask** – Displays the quantities of the current sell orders at the given price.
8. **Ask Delta** – Tracks the difference in contracts added/removed from the current ask size (see Ask column) for all depth levels in the DOM book (see bid column). These values are calculated on every DOM book update and are reset when the last price changes.
9. **Orders** – Displays active orders at each price level. If “**Single Order Column**” is unchecked (see General tab of the Properties dialog below), then there will be two of these columns (buy and sell orders).
10. **Bid Vol** – Daily volume traded at the bid price.
11. **Ask Vol** – Daily volume traded at the ask price
12. **Delta Vol** – Difference between the ask and bid volume at the given price.
13. **Volume** – Daily volume traded at the given price.
14. **Notes** – Displays a text note that you can add to each price level (click on the field and type). All notes can be removed by pressing the eraser button on the tool bar.

## 7.2 Preferences

Configuration information for the DOM panel can be found in the DOM Preferences dialog (click on the gear icon in the toolbar). The dialog contains several tabs which are described in the following sections.

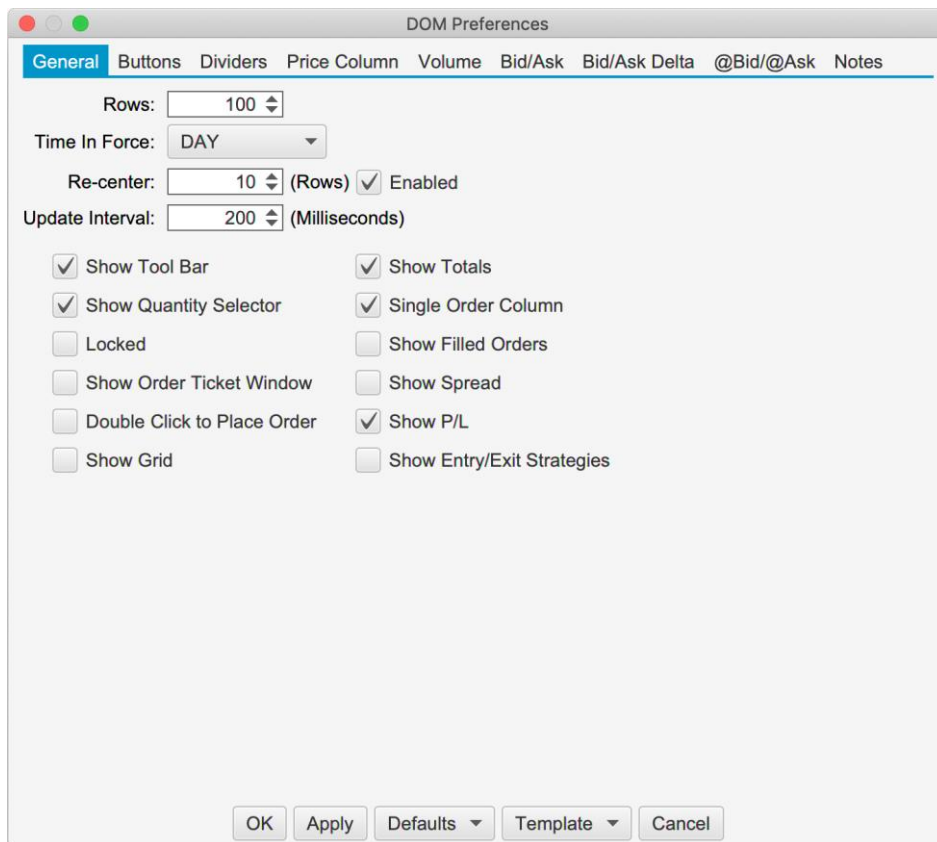
### 7.2.1 General Preferences

The following configuration options are available from the General tab:

1. **Rows** – Number of rows to display in the DOM (default 100).
2. **Time in Force** – Time in force setting for orders placed from the DOM.
3. **Re-center** – Defines the range (number of rows above/below the current center) for resetting the center point for the DOM. When the last price (or midpoint) crosses the top or bottom of the range the DOM will be centered on the current price.
4. **Update Interval** – Sets the update threshold for depth of market updates (bid/ask quantities). By default, the table will be updated a maximum of once every 200 milliseconds.
5. **Show Tool Bar** – Toggles the display of the tool bar at the top of the DOM panel. If this is turned off, the preferences button (gear icon) will display in the button bar at the bottom.
6. **Show Quantity Selector** – Toggles the display of the preset order quantities.
7. **Locked** – If the DOM is locked, you cannot place or modify orders. Uncheck this option if you want to manage orders in the DOM.
8. **Show Order Ticket Window** – Displays the order ticket window when placing an order from the DOM.



9. **Double Click to Place Order** – Place orders on double click (as opposed to single click).
10. **Show Grid** – Toggles the display of the grid in the DOM table.
11. **Show Totals** – Toggles the display of the totals for Bid/Ask Sizes and the delta at the bottom of the DOM table.
12. **Show Pips Only** – Rounds each price level in the table to the nearest pip. (FOREX only, not shown in the screen shot below).
13. **Single Order Column** – Displays all orders in a single column (instead of having separate buy and sell order columns).
14. **Show Filled Orders** – Displays filled orders in the order column(s).
15. **Show Spread** – Toggles the display of the spread field.
16. **Show P/L** – Toggles the display of the current unrealized profit/loss label.
17. **Show Entry/Exit Strategies** – Toggles the display of the Entry/Exit strategy panel (for customized order entry/exit).

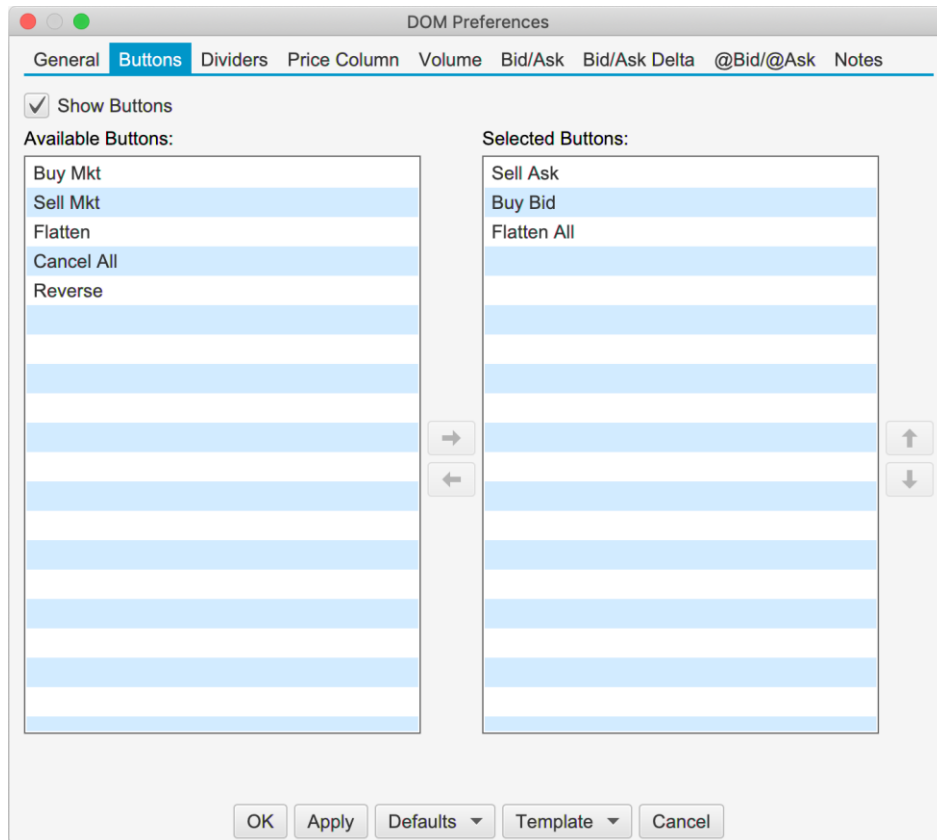


## 7.2.2 Buttons

The order buttons available at the bottom of the DOM may be customized from the “Buttons” tab of the preferences dialog. Orders placed using these buttons will use the current quantity in the tool bar and the **Time in Force** setting from the General tab.

1. **Show Buttons** – Toggles the display of the order button section (see bottom of DOM panel).
2. **Buy Bid** – Creates a limit order at the current bid price.
3. **Sell Ask** – Creates a sell limit order at the current ask price.
4. **Flatten All** – Cancels all open orders (for the given instrument and account) and closes the open position at market price. This is the same as pressing Cancel All and Flatten (see below).
5. **Buy Mkt** – Places a buy market order.
6. **Sell Mkt** – Places a sell market order.

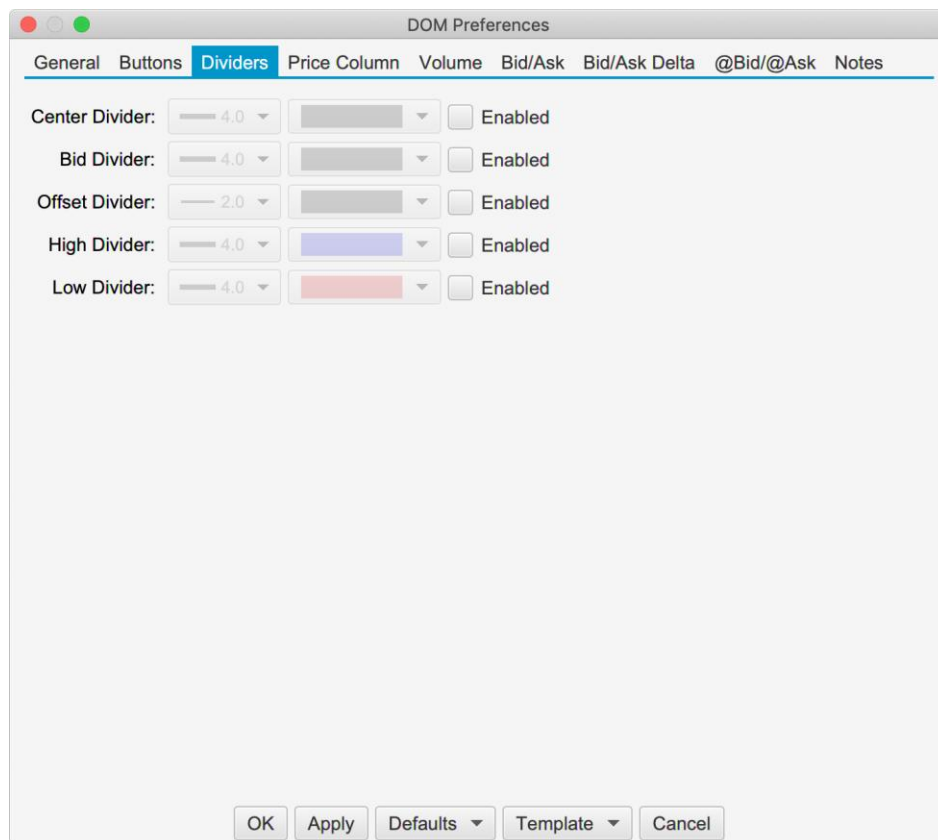
7. **Flatten** – Closes the open position at market price.
8. **Cancel All** – Cancels all open orders for the given instrument and account.
9. **Reverse** – Reverses the current position. For example, if you were long 3 contracts, this will close the open position and create a short position of 3 contracts at market price.



### 7.2.3 Dividers

Dividers may be used to highlight key price levels in the DOM table. The divider is placed between the rows and can be assigned a thickness and color:

1. **Center** – Center of the DOM. This will change when the DOM is re-centered.
2. **Bid** – Divider is placed just above the current bid price.
3. **Offset** – Shows the re-center threshold above and below the center price (see re-center option in General tab).
4. **High** – Daily high price. The divider is placed above this row.
5. **Low** – Daily low price. The divider is placed below this row.



The example below shows the bid, center and offset dividers enabled in the DOM. The offset dividers indicate when a re-center will occur (green dividers below).

25.00		2565.00	191		7261
12.50		2564.75	162		7472
		2564.50	121		10.9K
-12.50		2564.25	38		8651
-25.00	42	3@2564.00			8608
-37.50	137	2563.75			6318
-50.00	138	2563.50			8453
-62.50	123	2563.25			10.5K
-75.00	118	2563.00			12.0K
		2562.75			14.2K
		2562.50			19.5K
		2562.25			16.4K
		2562.00			19.8K
-137.50	178	2561.75			20.6K
-150.00		2561.50			14.4K
-162.50		2561.25			14.0K
-175.00		2561.00			15.0K
-187.50		2560.75			11.1K
-200.00		2560.50			11.9K
-212.50		2560.25			12.1K
-225.00		2560.00			15.6K
-237.50		2559.75			14.1K

Bid  
Divider

Center  
Divider

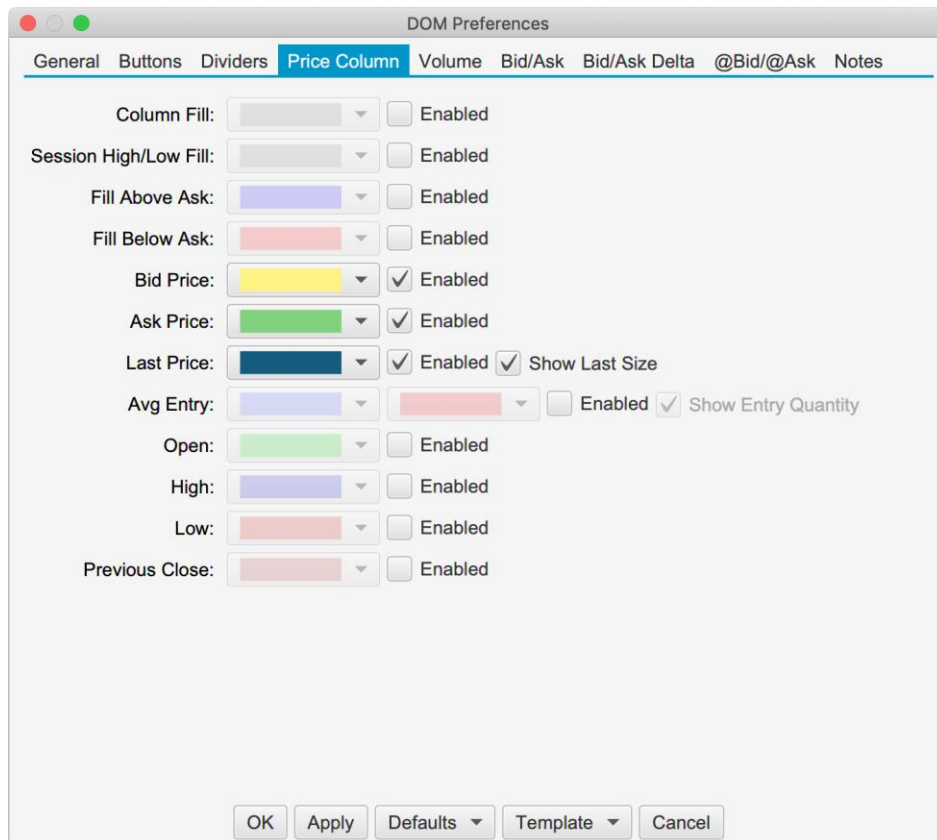
#### Offset Dividers

When the price moves outside of this range, the DOM will be re-centered (if enabled)

## 7.2.4 Price Column

Below are the options available for configuring the price column. Note: background fills that span several rows will use striping to help visualize the distinction between rows in the table:

1. **Column Fill** – Default background fill for price column. This is the color used to fill the price cells unless they are overridden by another setting.
2. **Session High/Low Fill** – Fill for the price rows that are between the high and low for the day's trading session.
3. **Fill Above Ask** – Fill for the prices above the current ask price.
4. **Fill Below Ask** – Fill for the prices below the current bid price.
5. **Bid Price** – Fill for the cell that contains the current bid price.
6. **Ask Price** – Fill for the cell that contains the current ask price.
7. **Last Price** – Fill for the cell that contains the last traded price. If "Show Last Size" is enabled, it will be added to the price cell. For example, 5@2570.00.
8. **Avg Entry** – Highlight for the price cell that contains the avg entry price for your open position. There are two color options. The first is for a long position and the second is for a short position. If "Show Entry Quantity" is enabled, it will be added to the price cell. For example, -5@2580.25
9. **Open** – Fill for the opening price for the day.
10. **High** – Fill for the highest traded price for the day.
11. **Low** – Fill for the lowest traded price for the day.
12. **Previous Close** – Fill for the closing price from the previous day.



The example below shows some shading options for the price column:

37.50		2569.25	184		14.
25.00		2568.50			11.
12.50		2568.00			11.
00.00		2568.50	144		75
37.50		2568.25	128		69
75.00		1@2568.00	100		73
32.50	64	2567.75			58
50.00	86	2567.50			63
37.50	150	2567.25			83
25.00	178	2567.00			11.
12.50	154	2566.75			82
00.00	286	2566.50			95
37.50	158	2566.25			11.
75.00	182	2566.00			87
32.50	180	2565.75			87
50.00	175	2565.50			74
37.50		2565.25			84
25.00		2565.00			88
12.50		2564.75			94
		1@2564.50			13.
00.00		2564.25			44

Fill Above Ask

Last Price (with  
traded quantity)Best Bid  
Price

Fill Below Ask

Avg Entry

## 7.2.5 Volume

The volume-based columns (Volume, Bid Vol, Ask Vol and Delta Vol) may be customized from the Volume tab:

### Display Section:

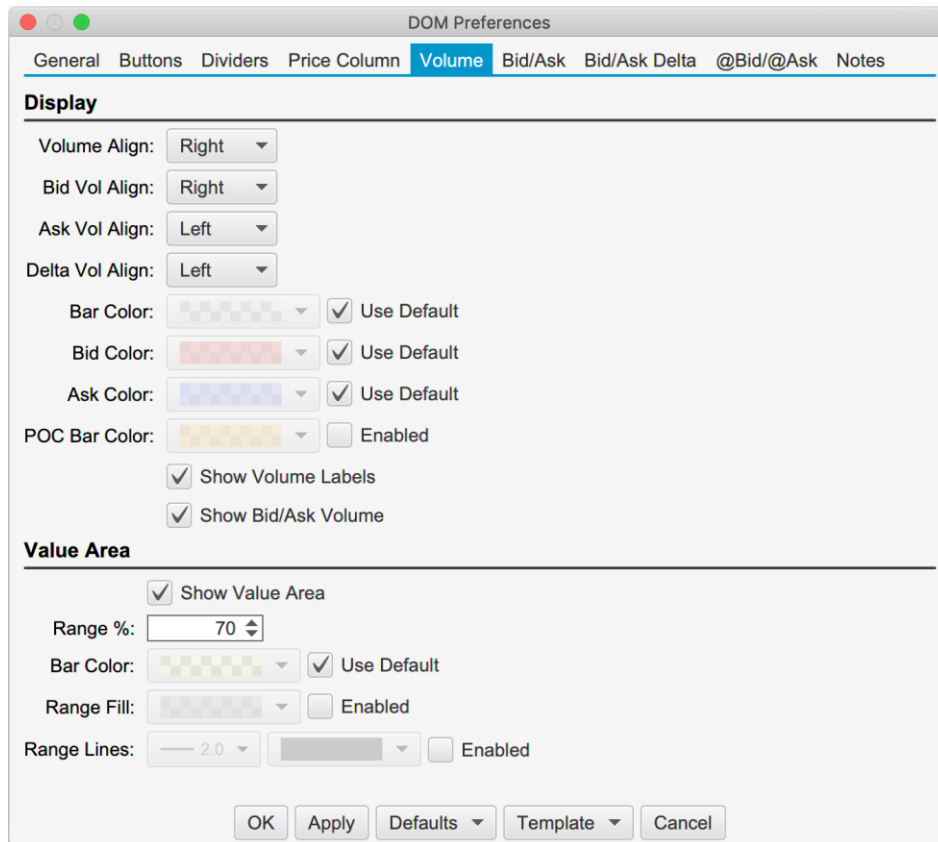
1. **Volume Align** – Cell alignment for the Volume column.
2. **Bid Vol Align** – Cell alignment for the Bid Vol column.
3. **Ask Vol Align** – Cell alignment for the Ask Vol column.
4. **Delta Vol Align** – Cell alignment for the Delta Vol column.
5. **Bar Color** – Bar color for the Volume column. This is not used if Show Bid/Ask Volume is checked
6. **Bid Color** – Bar color for the Bid Vol column. If Show Bid/Ask Volume is checked, this will be the fill for the bid volume portion in the Volume column.
7. **Ask Color** – Bar color for the Ask Vol column. If Show Bid/Ask Volume is checked, this will be the fill for the ask volume portion in the Volume column.
8. **POC Bar Color** – Color for the Point of Control cell (highest volume) in the DOM Table.
9. **Show Volume Labels** – Toggles the display of the text labels in the volume columns
10. **Show Bid/Ask Volume** – Toggles the display of bid/ask volume for the Volume column. If this is selected each bar in the Volume column will be divided into bid and ask volume.

### Value Area Section:

The value area identifies the rows surrounding the Point of Control (POC) (row with the highest volume) that encompass X% (typically 70%) of the total trading volume (for the day).

1. **Show Value Area** – Toggles the display of the value area.
2. **Range %** - Percentage of the volume to include in the value area.

3. **Bar Color** – Shade color for the bars that are part of the value area. Typically, this is a semi-transparent color if you want to highlight bid/ask volume at the same time.
4. **Range Fill** – Background fill for the cells that are part of the value area.
5. **Range Lines** – Displays dividers at the top and bottom of the value area.



The screenshot shows the 'DOM Preferences' dialog box with the 'Volume' tab selected. The 'Display' section includes settings for Volume Align (Right), Bid Vol Align (Right), Ask Vol Align (Left), Delta Vol Align (Left), Bar Color (with a 'Use Default' checkbox), Bid Color (with a 'Use Default' checkbox), Ask Color (with a 'Use Default' checkbox), POC Bar Color (with an 'Enabled' checkbox), and checkboxes for 'Show Volume Labels' and 'Show Bid/Ask Volume'. The 'Value Area' section includes a 'Show Value Area' checkbox, a 'Range %' spinner set to 70, Bar Color (with a 'Use Default' checkbox), Range Fill (with an 'Enabled' checkbox), and Range Lines (set to 2.0 with an 'Enabled' checkbox). At the bottom are buttons for OK, Apply, Defaults, Template, and Cancel.

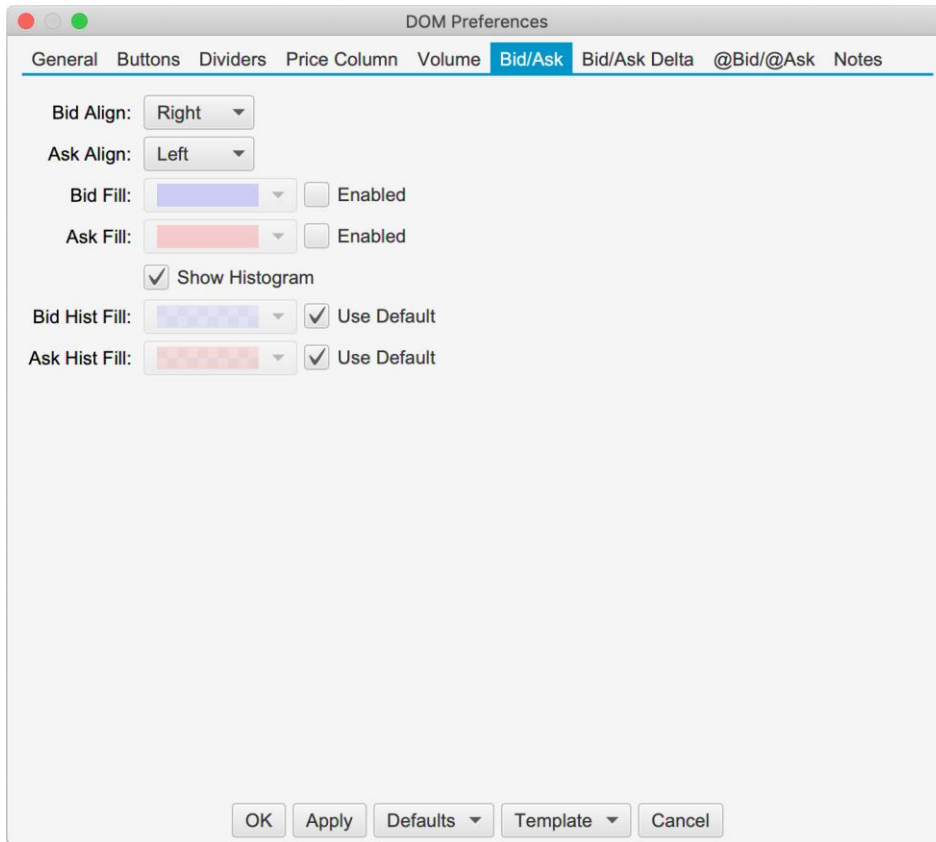
The example below shows the Bid Vol/Ask Vol and Volume columns in the DOM table. The Value Area (Show Value Area check box) has been enabled and the “Show Bid/Ask Volume” has also been enabled for the Volume column.

Bid	Price	Ask	Orders	Bid Vol	Ask Vol	Volume	+
	2576.00			10.3K	10.6K	20.9K	
	2575.75			7940	8875	16.8K	
	2575.50			7962	8131	16.1K	
	2575			9020	9436	18.5K	
	2575			13.7K	10.0K	23.7K	
	2574.75			13.9K	13.9K	27.8K	
	2574.50			14.1K	14.3K	28.5K	
	2574.25			12.0K	14.9K	26.9K	
	2574.00					19.2K	
	2573.75					17.1K	
	2573.50					15.9K	
	2573.25			9158	8044	17.2K	
	2573.00			9949	10.6K	20.6K	
	2572.75			7895	7734	15.6K	
	2572.50	7		8428	9234	17.7K	
	2572.25	14		8965	7368	16.3K	
	2572.00	8		12.3K	11.5K	23.7K	
	2571.75	9		9491	10.5K	19.9K	
	2571.50	5				25.4K	
	2571.25	5				22.1K	
	2571.00	6				26.1K	
	2570.75	5		14.0K	12.4K	26.4K	
	2570.50	6		12.9K	12.9K	25.9K	
	2570.25	73		11.8K	12.2K	24.0K	
	2570.00			11.4K	11.8K	23.2K	
39	1@2569.75			9346	10.3K	19.6K	
20	2569.50			7950	9216	17.2K	

## 7.2.6 Bid/Ask Sizes

The Bid/Ask columns display total quantity of the active buy and sell orders at each price level. The number of depth rows available depends on the instrument, but is typically 10 price levels for each of the bid and ask columns (total of 20 price rows). An optional histogram can be displayed to help visualize how the quantities are distributed.

1. **Bid Align** – Alignment of the Bid column.
2. **Ask Align** – Alignment of the Ask column.
3. **Bid Fill** – Fill color for the bid column (striping will be applied).
4. **Ask Fill** – Fill color for the ask column (striping will be applied).
5. **Show Histogram** – Shows the histogram for both the Bid and Ask columns using the Bid/Ask Align settings above.
6. **Bid Hist Fill** – Fill color for the Bid histogram.
7. **Ask Hist Fill** – Fill color for the Ask histogram.

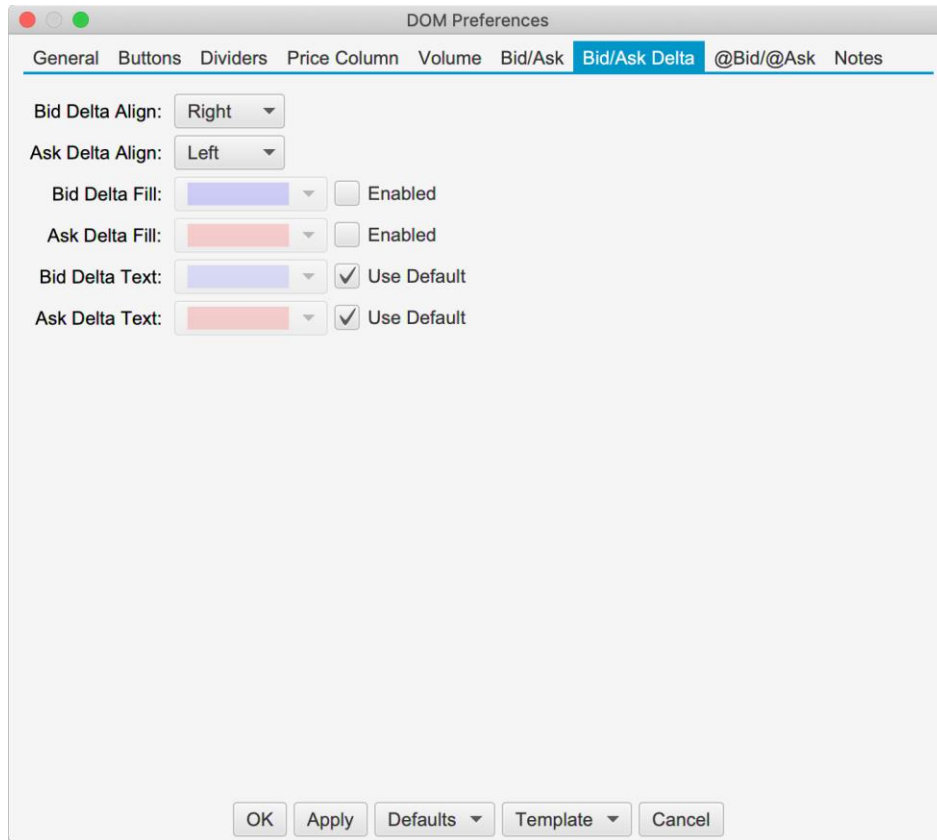


### 7.2.7 Bid/Ask Delta

The Bid Delta and Ask Delta columns display the difference in the Bid/Ask quantities at each price level since the last price changed. These values are updated with each depth book update.

1. **Bid Delta Align** – Alignment for the Bid Delta column.
2. **Ask Delta Align** – Alignment for the Ask Delta column.
3. **Bid Delta Fill** – Background fill color for the Bid Delta column (striping will be applied).
4. **Ask Delta Fill** – Background fill color for the Ask Delta column (striping will be applied).
5. **Bid Delta Text** – Text color for the Bid Delta column.
6. **Ask Delta Text** – Text color for the Ask Delta column.

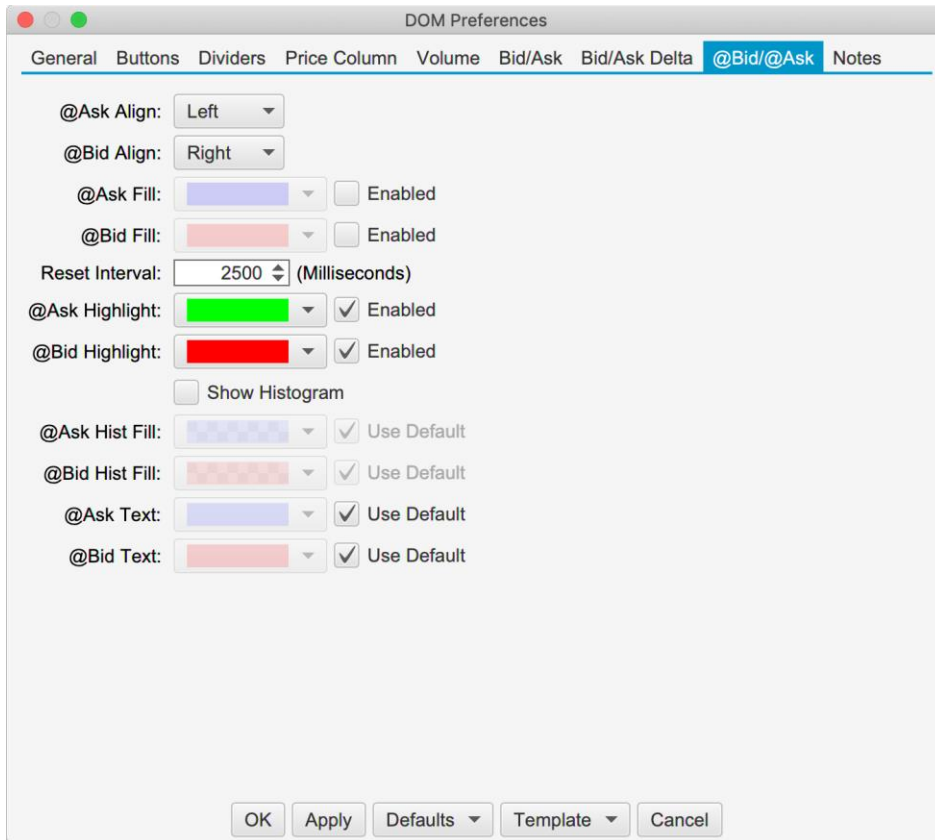




## 7.2.8 @Bid/@Ask

The @Bid and @Ask columns track the bid and ask volume at each price level since the last reset. These columns can be reset manually by pressing the reset button in the tool bar.

1. **@Ask Align** – Alignment of the @Ask column.
2. **@Bid Align** – Alignment of the @Bid column.
3. **@Ask Fill** – Background fill color for the @Ask column (striping will apply).
4. **@Bid Fill** – Background fill color for the @Bid column (striping will apply).
5. **Reset Interval** – The DOM panel tracks how long it's been since a trade occurred at each price level. The @Bid (on bid trade) or @Ask (on ask trade) value is reset to 0 when the elapsed time exceeds the reset interval. For example, consider a case where the DOM panel is showing 1164 contracts traded at an ask price of 2575.50 (since the last reset). When the next trade that occurs at the ask for 2575.50 and the elapsed time exceeds the reset interval, the @Ask value will be reset to 0 before adding the new ask volume.
6. **@Ask Highlight** – Highlight color for the @Ask cell when the last trade occurs at the ask price. The highlight is cleared on the next trade.
7. **@Bid Highlight** – Highlight color for the @Bid cell when the last trade occurs at the bid price. The highlight is cleared on the next trade.
8. **Show Histogram** – Toggles the display of the histogram for the @Bid/@Ask columns.
9. **@Ask Hist Fill** – Fill color for the @Ask histogram (striping will apply).
10. **@Bid Hist Fill** – Fill color for the @Bid histogram (striping will apply).
11. **@Ask Text** – Text color for the @Ask column.
12. **@Bid Text** – Text color for the @Bid column.

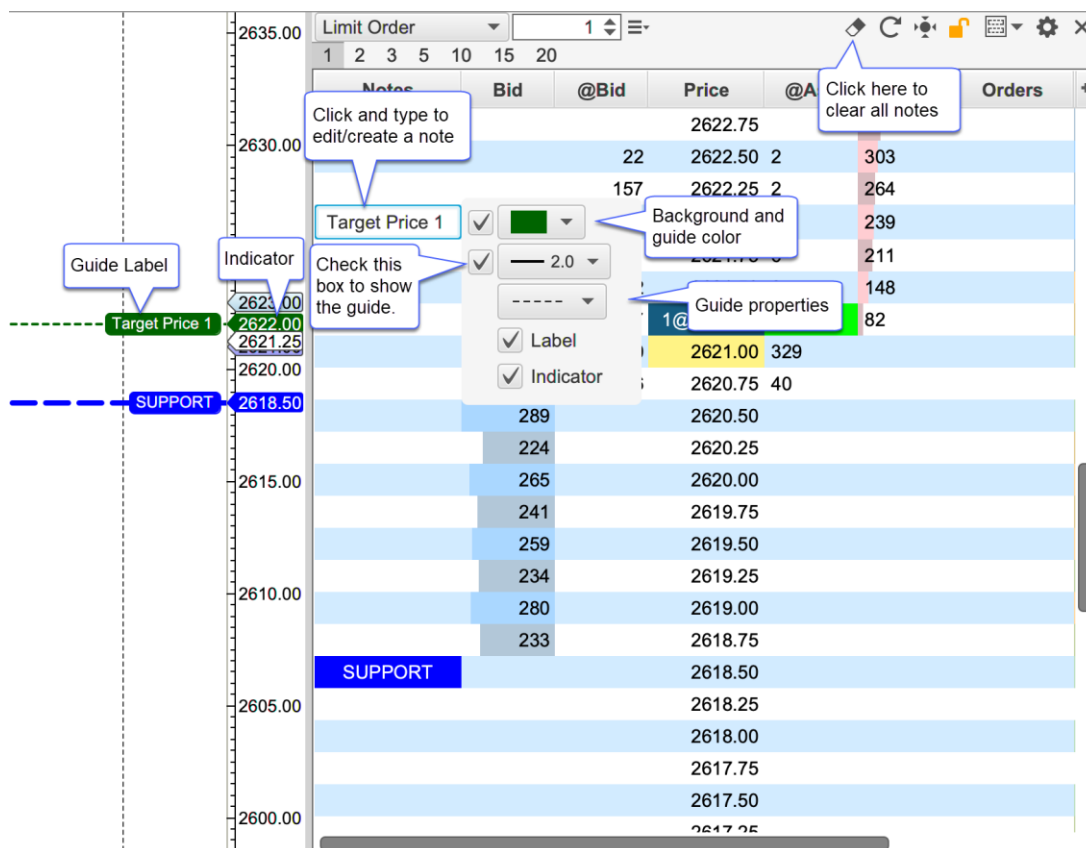


The example below shows the @Bid and @Ask columns displayed in the DOM panel. Since the last trade occurred at the ask price, the @Ask cell is highlighted green (where the trade occurred).

P/L	Bid	@Bid	Price	@Ask
625.00			2577.00	81
612.50		1025	2576.75	6
600.00		327	2576.50	259
587.50		94	2576.25	31
575.00		494	2576.00	109
562.50		1337	2575.75	1164
550.00		802	2575.50	23
537.50		1118	2575.25	249
525.00		54	2575.00	70
512.50		377	2574.75	1
500.00		184	2574.50	40
487.50		761	2574.25	22
475.00		30	2574.00	49
		12	1@2573.75	2
		1	2573.50	27
		12	2573.25	6
		2	2573.00	16
		6	2572.75	11
400.00		45	2	2572.50
387.50		32	2	2572.25
375.00		51	1	2572.00
362.50		31	1	2571.75
350.00		34	24	2571.50
337.50		42	24	2571.25
325.00		1	2571.00	14

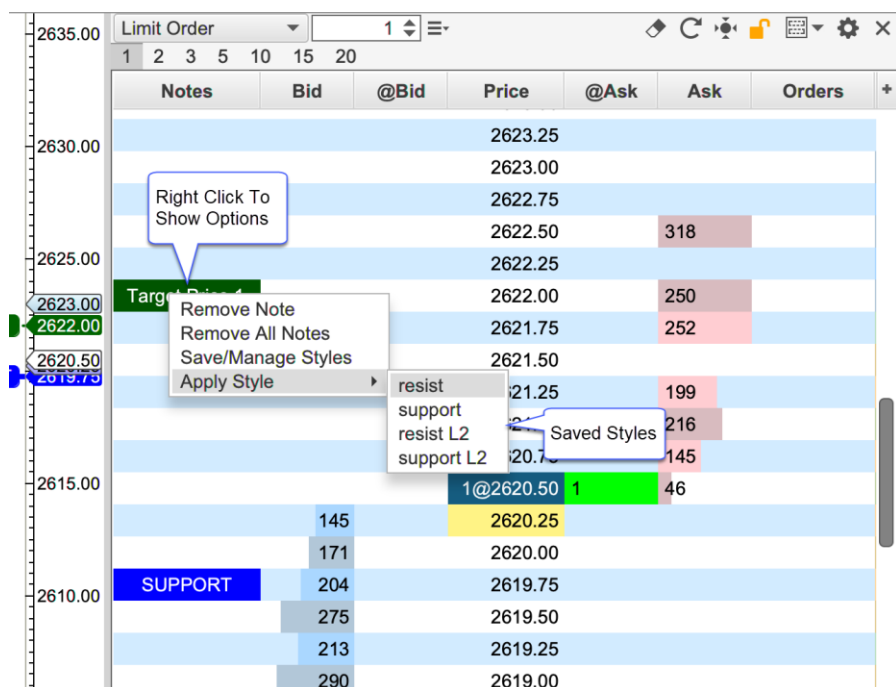
## 7.2.9 Notes

The Notes column allows you to type a custom note for any price level. Notes are persisted when restarting MotiveWave™. For convenience all notes can be removed by pressing the eraser button in the tool bar (see below). If the DOM is attached to a chart, a guide may optionally be placed in the chart for each note. The guides and notes are synchronized between the DOM and the chart. Moving or removing a guide in the chart will affect the note in the DOM (and vice versa). The screen shot below illustrates some of the options available when adding or editing a note.

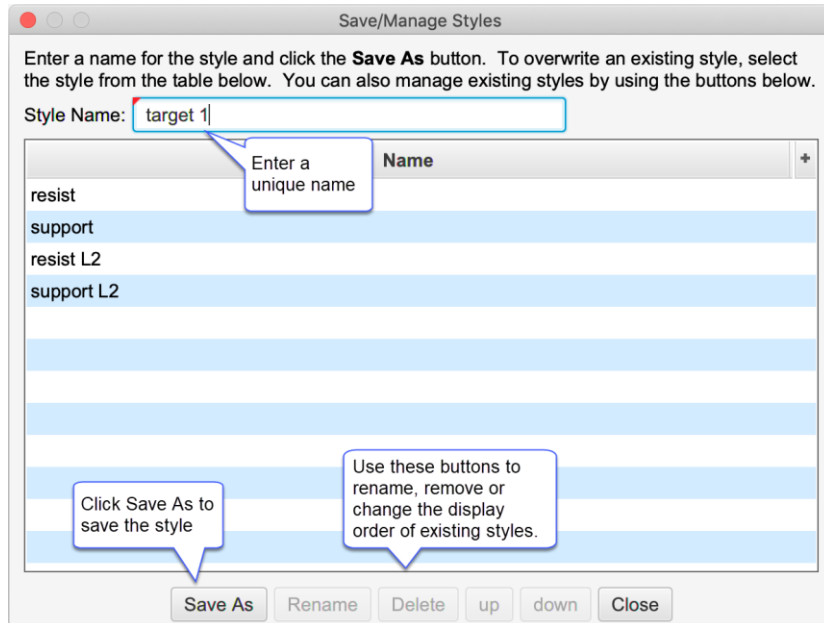


### 7.2.9.1 Note Styles

For convenience, notes including their formatting and guide settings may be saved as a style that can be applied later. Right click on an existing note to save or manage existing styles. An existing style can be applied to a note from the **Apply Style** menu.



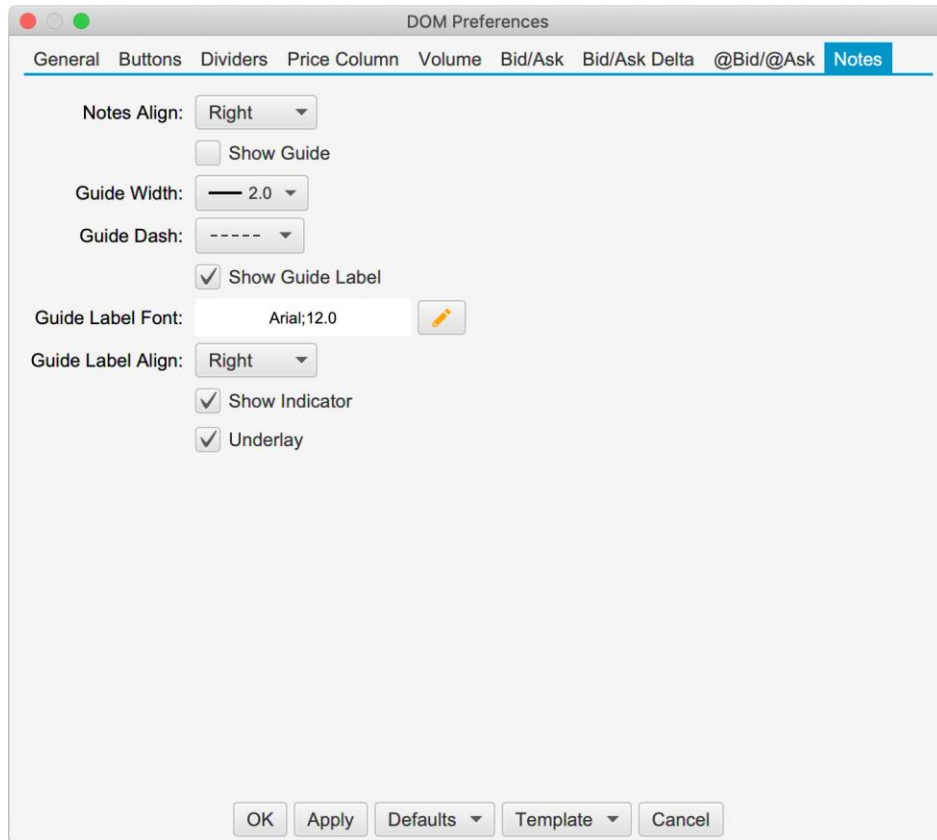
The dialog below will appear if you choose the **Save/Manage Styles** option. From this dialog, you can save a style and or manage existing styles. Use the up/down buttons to change the display order in the **Apply Styles** menu.



### 7.2.9.2 Note Preferences and Defaults

Note settings can be configured in the DOM Preferences dialog under the Notes tab:

1. **Notes Align** – Cell alignment for the Notes column.
2. **Show Guide** – This is the default setting for the showing the guide in the chart. This only applies to a DOM that is attached to a chart.
3. **Guide Width** – Default width for the guide line.
4. **Guide Dash** – Default dash pattern for the guide line.
5. **Show Guide Label** – Default setting for showing the label in the guide. The label will contain the same text in the Notes column.
6. **Guide Label Font** – Font for the guide labels.
7. **Guide Label Align** – Alignment for the guide labels.
8. **Show Indicator** – Default setting for showing the guide indicator in the price axis.
9. **Underlay** – Optionally draws the guides behind the price bars. This will also draw the guide indicators behind the other indicators on the chart.



## 7.3 Templates

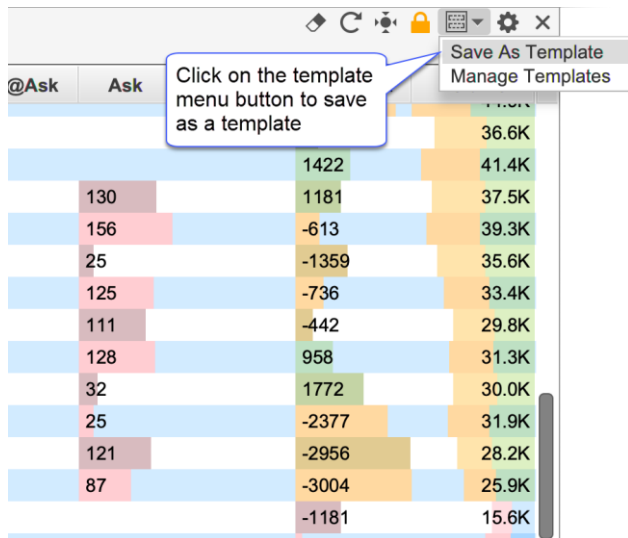
Templates allow you to save a specific configuration for later use. A DOM template includes the following:

1. **Width** – Width of the DOM panel.
2. **Table Columns** – Visible table columns and widths.
3. **Configuration Settings** – All settings in the DOM Preferences dialog.

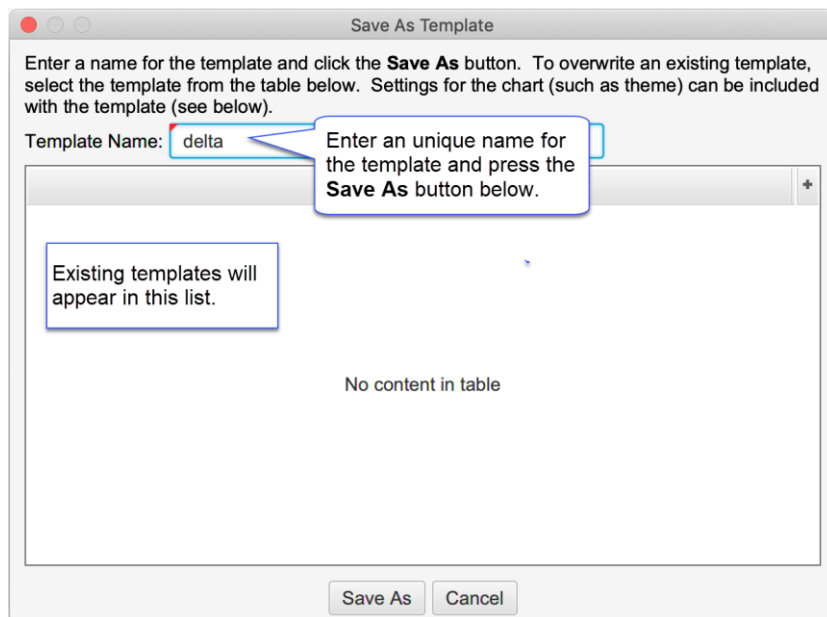
Templates can be saved, managed and applied from the tool bar or the DOM Preferences dialog.

### 7.3.1 Saving Templates

From the tool bar, click on the Templates menu button (see screen shot below) and choose the **Save As Template** option. Alternatively, this can be done from the DOM preferences dialog (see **Template** menu button at the bottom of the dialog).

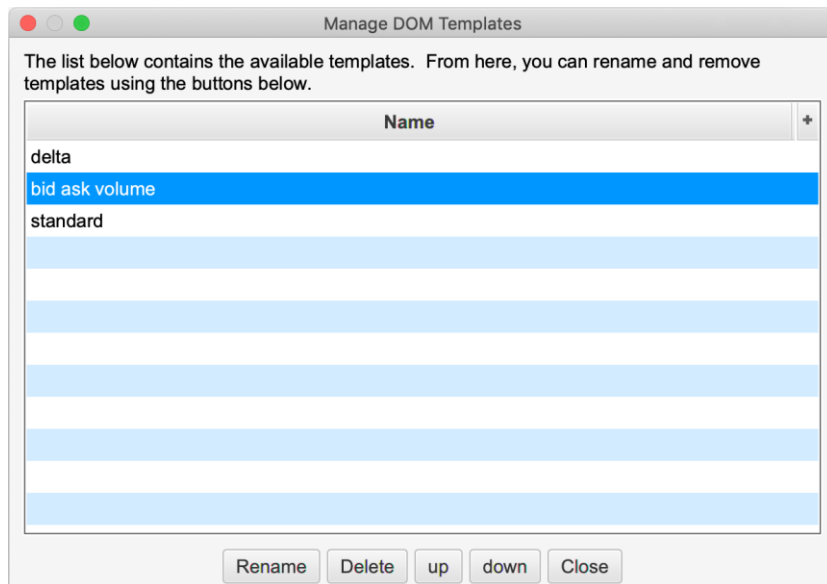


Enter a unique name for the template and press the Save As button at the bottom of the dialog. Existing templates will be displayed in the list box. You can overwrite an existing template by selecting it.



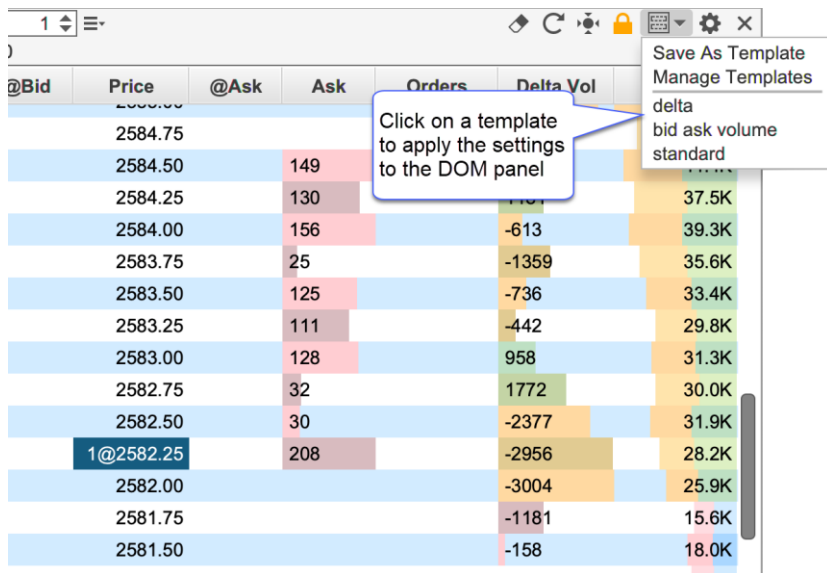
### 7.3.2 Managing Templates

The Manage Templates option will open the dialog below. This dialog will allow to you to rename templates, delete them or change the order in which they appear in the templates drop down.



### 7.3.3 Applying Templates

A template can be applied to the DOM panel with 2 mouse clicks. Open the templates drop down and select the name of the template you would like to apply. The settings from the template (including the width of the panel and visible columns) will be applied.





## 8 Other Enhancements

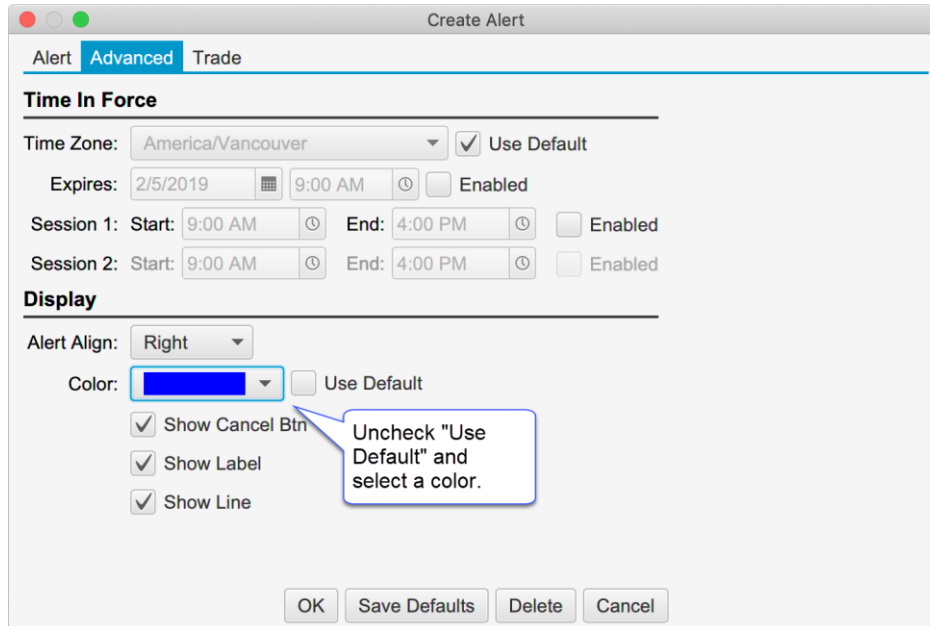
This section outlines some other small enhancements that have been added to this update.

### 8.1 Alert Colors

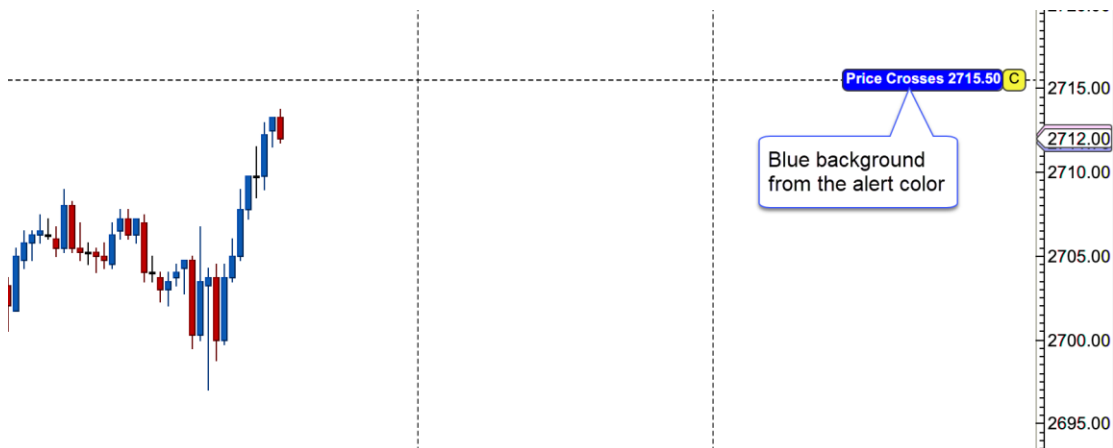
Colors may be assigned to alerts or signals generated from studies. The color may be useful for identifying the purpose or urgency of an alert when it is triggered.

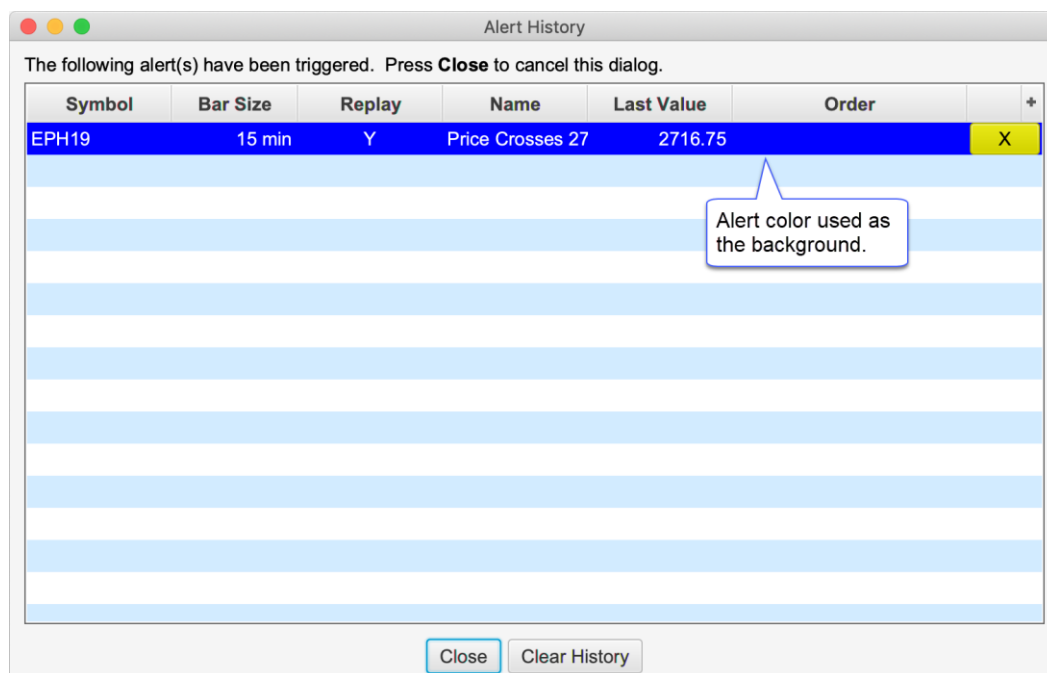
#### 8.1.1 Price/Study Value Alerts

A color may be assigned from the **Advanced** tab of the alert dialog:



This color is displayed as a background color for the alert on the price chart, Alerts panel and the Alert History window:





### 8.1.2 Study Signals

Colors for signals generated by studies can be set from the Signals tab of the Study Dialog. The example below shows a blue color assigned when the Fast MA crosses above the Slow MA and a red color assigned when the Fast MA crosses below the Slow MA (using the Moving Average Cross study).

Moving Average Cross

Displays a signal arrow when two moving averages cross (fast and slow). An up arrow is displayed if the fast MA crosses above the slow MA (down arrow if reversed).

General Display **Signals** Options

Signal: **Fast MA Crossed Above** ☐ All

Enabled: ☒

All Bar Sizes: ☒ 15 min

Show Alert: Yes

Play Sound: Yes ☒ Use Preset Sound

Sound File:

Send Email: No ☒

Email Address:  ☒ Use Default

Color: **Blue** ☐ Use Default

Moving Average Cross

Displays a signal arrow when two moving averages cross (fast and slow). An up arrow is displayed if the fast MA crosses above the slow MA (down arrow if reversed).

General Display **Signals** Options

Signal: **Fast MA Crossed Below** ☐ All

Enabled: ☒

All Bar Sizes: ☒ 15 min

Show Alert: Yes

Play Sound: Yes ☒ Use Preset Sound

Sound File:

Send Email: No ☒

Email Address:  ☒ Use Default

Color: **Red** ☐ Use Default



## 8.2 CryptoCompare API Key

The CryptoCompare connector has been updated to accept an API key. An API key is not currently required, but may be required in the near future. For details see: <https://min-api.cryptocompare.com/faq>

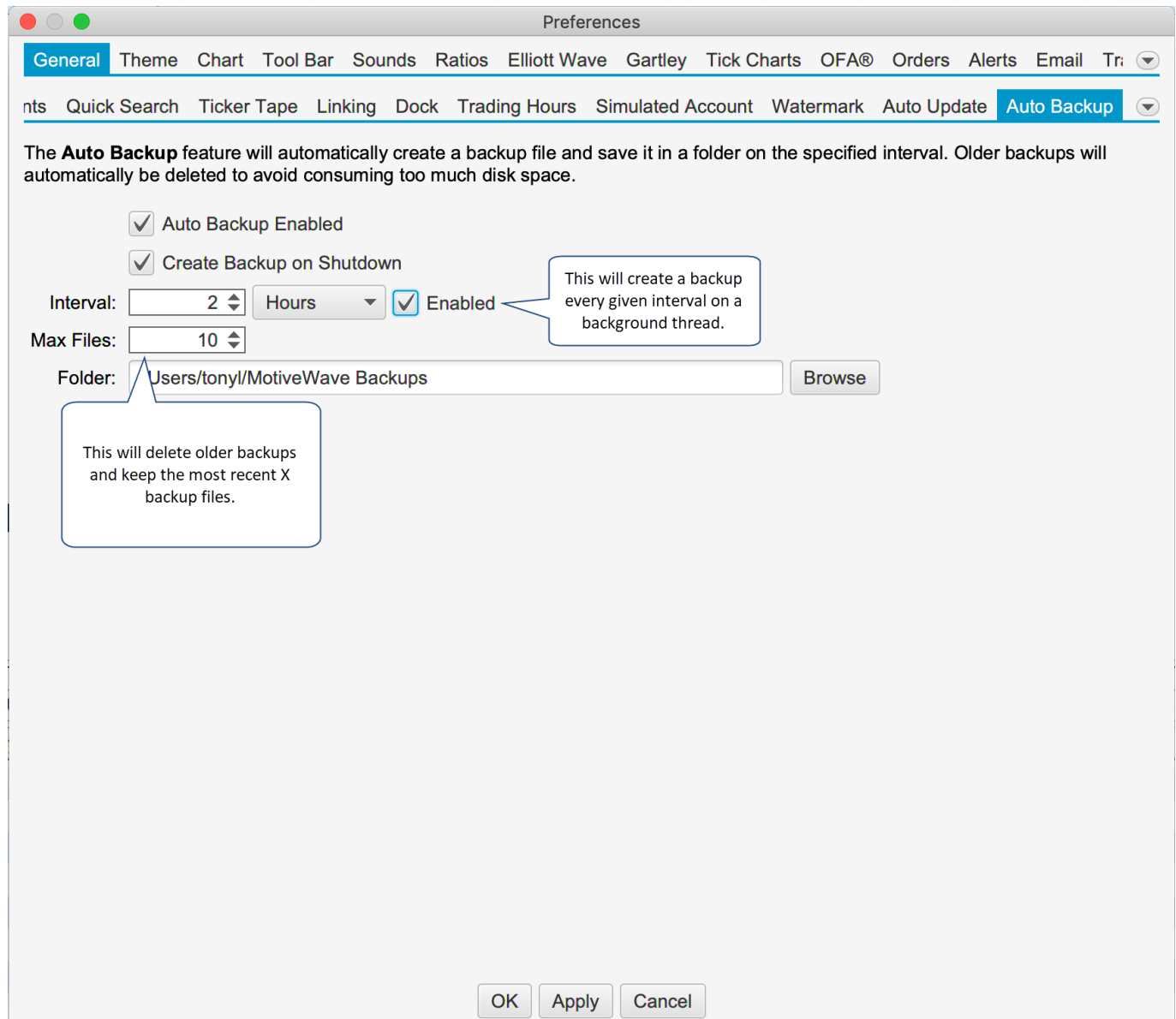
## 8.3 Trade Edition

Added Replay Mode to the Trade Edition.

## 8.4 Auto Backup

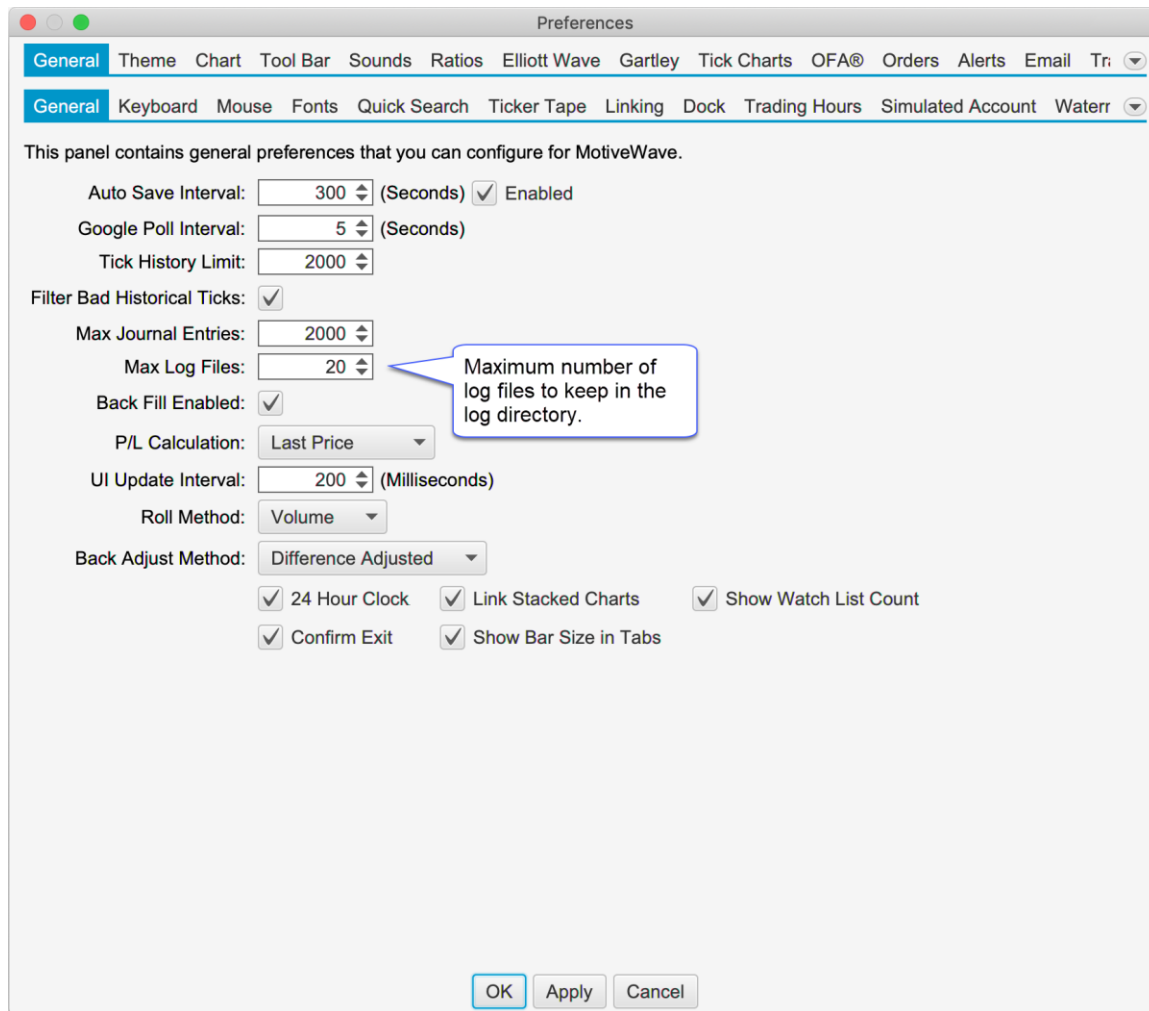
The auto backup feature will automatically create a backup of your open workspace on a given interval. Choose *Configure -> Preferences* from the Console menu bar and click on **General**, then on **Auto Backup** (see below).

The max files option will limit the number of backup files in the saved folder. When the limit is reached, the oldest backup file is removed from the folder (deleted).



## 8.5 Log File Trimming

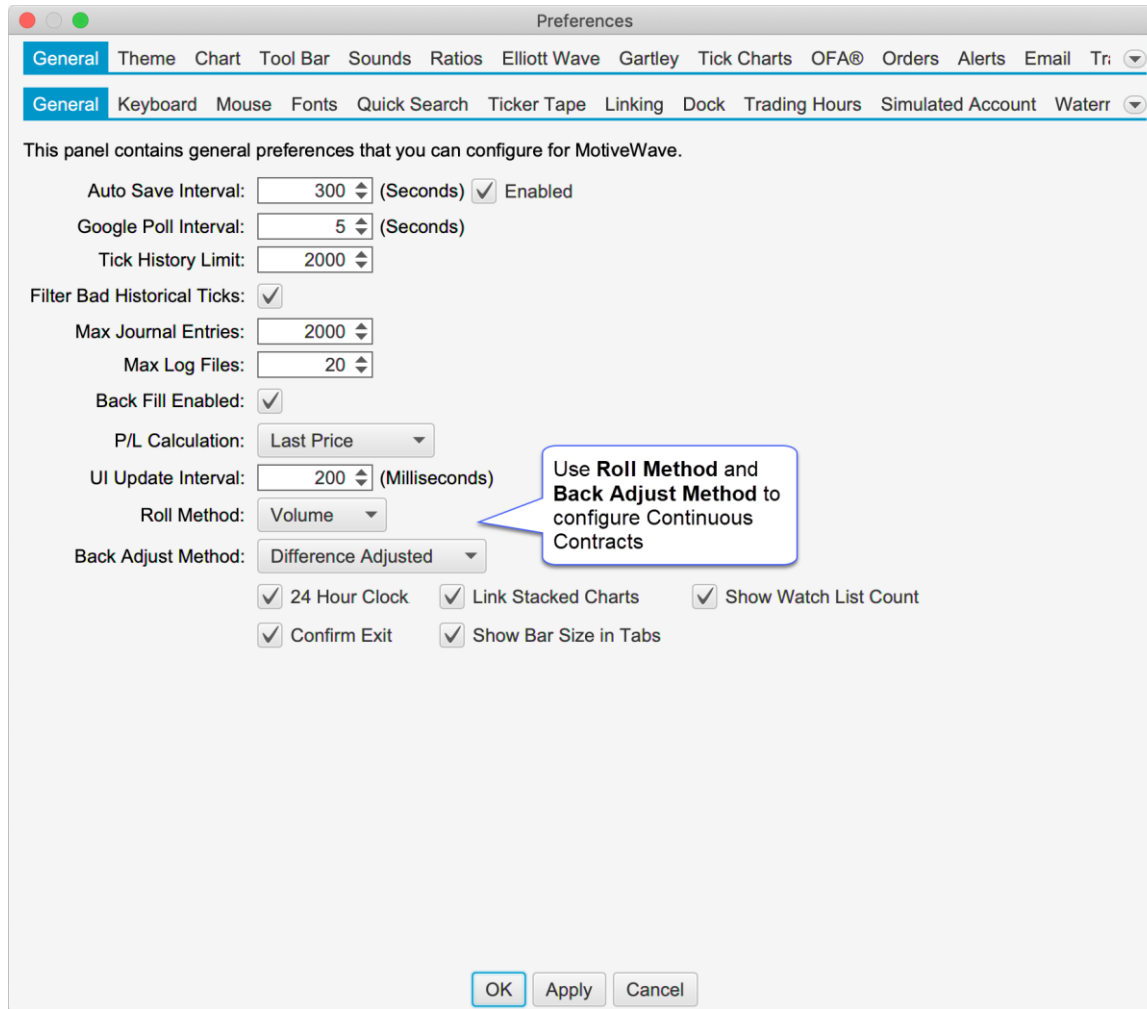
Every time MotiveWave™ is started a log file is created in the Log Folder (choose **Help -> Log Files** from the Console menu bar, or **Options -> Log Files** from the startup screen). Over time the number of log files in this folder can become quite large. As part of version 6, the number of files in this folder is trimmed to 20 (newest files are kept). You can change the number of log files that are kept (minimum of 5) in the **Preferences Dialog (Configure -> Preferences** from the Console menu bar, see **General -> General** tab).



## 8.6 Continuous Contracts

Continuous contracts may be constructed by MotiveWave using historical data from expired contracts. This feature is particularly useful for brokers/data services that do not have a continuous contract option (such as CQG, Rithmic and GAIN Futures). The amount of historical data depends on the futures contracts and data available on the MotiveWave back fill server.

By default, continuous contract calculation is enabled. This can be configured globally in the General Preferences Dialog (**Configure -> Preferences** from the Console menu bar, see **General -> General** tab).



The following options are available for configuring continuous contracts:

### ***Roll Method***

The roll method determines how the dates for rolling from one contract to the previous contract are calculated.

1. **None** – If this is chosen then continuous contracts are disabled by default and only the historical data for the selected futures contract is displayed
2. **Volume** – The option will choose the roll date based on the daily volume for each futures contract. The roll date is chosen when the daily volume for the preceding contract exceeds that of the current contract.

### ***Back Adjust Method***

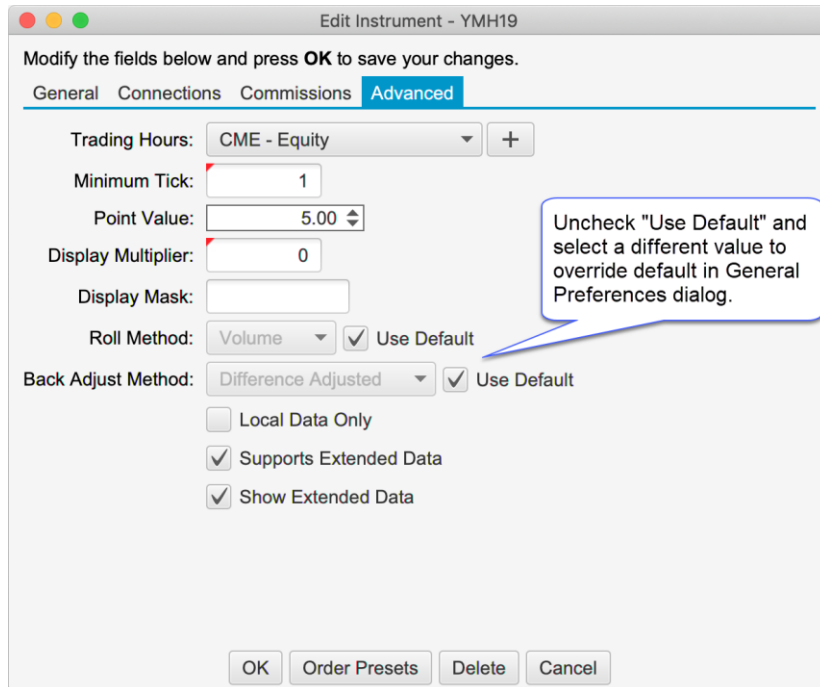
The back adjust method determines how to adjust the historical data between each contract. The following options are available:

1. **Unadjusted** – This option will leave the historical data unchanged. Gaps will appear where the data rolls over to the next contract.
2. **Difference Adjusted** – Adjusts the data for the preceding contract using the difference between the daily opening prices on the roll date. Note: this difference is cumulative for each contract.

For example, the third futures contract will be adjusted using the difference of roll date 1 + difference of roll date 2.

3. **Ratio Adjusted** – Adjusts the preceding contract using the ratio calculated from the daily opening prices on the roll date (ie  $OPEN(i)/OPEN(i-1)$ ). Older contracts will be adjusted by multiplying the ratio by the adjustment ratio from the next roll over date

Continuous contracts settings may also be configured for each instrument (overriding the options in General Preferences) from the Edit Instrument dialog (right click on a chart and choose Edit Instrument).



Modify the fields below and press **OK** to save your changes.

General Connections Commissions **Advanced**

Trading Hours: CME - Equity +

Minimum Tick: 1

Point Value: 5.00

Display Multiplier: 0

Display Mask:

Roll Method: Volume ☒ Use Default

Back Adjust Method: Difference Adjusted ☒ Use Default

☐ Local Data Only

☒ Supports Extended Data

☒ Show Extended Data

OK Order Presets Delete Cancel

Uncheck "Use Default" and select a different value to override default in General Preferences dialog.