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SDVSystem
Indicator User Manual NT8

“Supply/Demand + Volume Profile With QUANT SCANNERS” & Semi-Auto trade plans!

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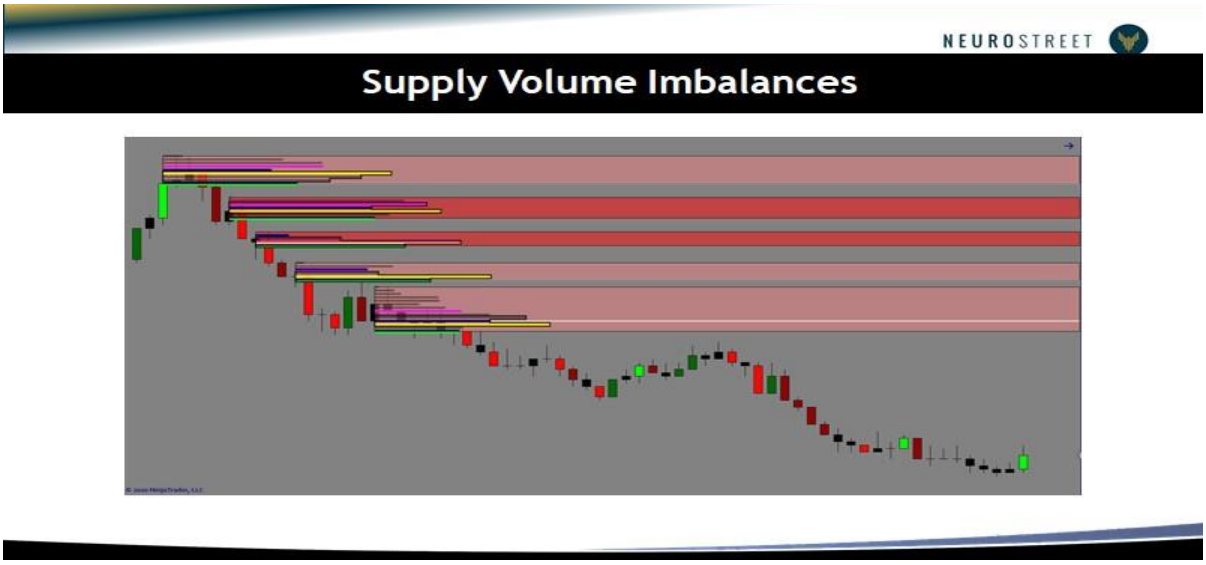
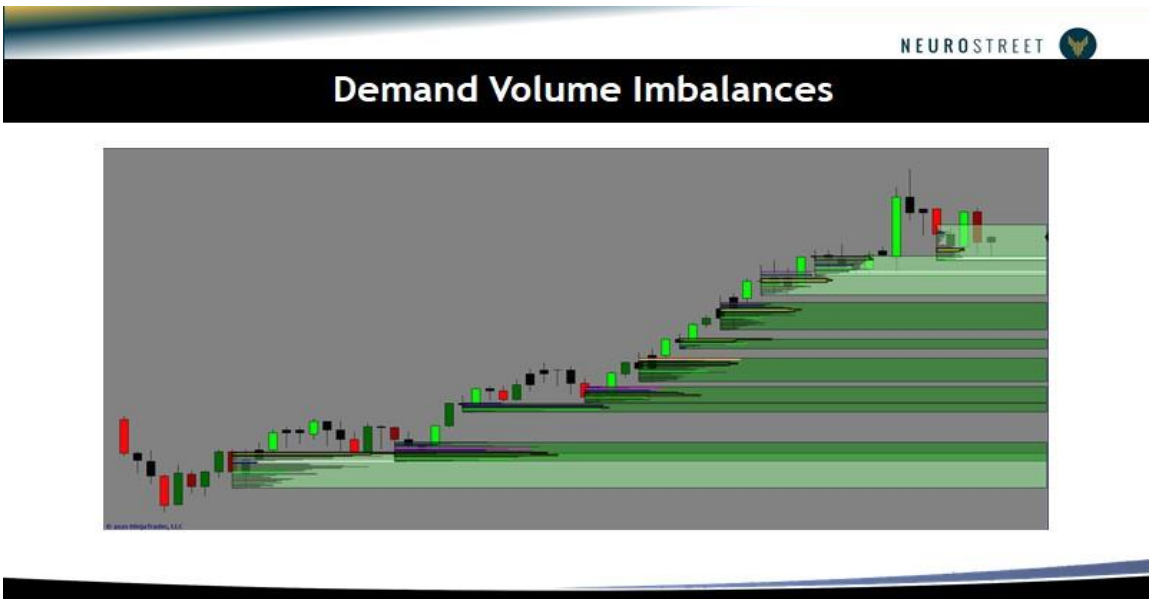
SDVSystem Concepts Explained:

The SDVSystem indicator is a hybrid analysis tool used to identify supply and demand order flow imbalances with volume profile. The tool uses advanced pattern recognition, order flow algorithms & volume profile data inside the imbalances to derive with low risk, high reward and high probability trading zones that can be applied to all styles of trading.

- **Supply & Demand** order flow imbalances represent areas where order flow between buyers and sellers shifts and therefore presents turning points in price. This acts as a form of leading analysis as it pertains to pure price action which projects zones into the future for leading information. The **VWTPO** (Volume Weighted Time Price Opportunity) component inside the SDVSystem looks at the area where the supply and demand imbalances occur and locates the value areas that are supported by volume inside the actual zones when they are created.

- **Volume Profile** distribution represents the volume composite within the supply & demand imbalances. The volume data provides insight into the zone aggregate volume profile, POC (point of control), VAH (value area high), VAL (value area low), VC (volume cluster), DF (delta factor), V% (volume % ratio) & VV (volume values). This data allows for a completely transparent view of volume inside the order flow imbalances at supply & demand.





Price Bar, Zones, Volume Profile & Market Structure Concepts

Concept	Definition
Leg up	A price bar - which closes above the open - and which has a body range equal to or larger than its full range
Leg down	A price bar - which closes below the open - and which has a body range equal to or larger than its full range
Base	A group of one or more consolidation bars
Consolidation bar	Any bar which is not a leg up or a leg down
Upthrust bar (Fluorescent Bullish Bar)	A leg up - which follows an area of consolidation - which closes above the value area high (VAH) of the base which has a significant range as identified by a range filter
Uptrending bar	- Any leg up which is not an upthrust bar
Downthrust bar (Fluorescent Bearish Bar)	A leg down - which follows an area of consolidation - which closes below the value area low (VAL) of the base which has a significant range as identified by a range filter
Downtrending bar	- Any leg down which is not a downthrust bar
Supply zone	An orderflow supply imbalance
Demand zone	An orderflow demand imbalance
Market structure	A succession of swing highs and lows plotted as a zigzag line
Swing strength	Number of bars used to determine the swing highs and lows
ATR %	% of Average True Range that defines double tops & bottoms
Higher high (HH)	A swing high which is higher than the preceding swing high
Lower high (LH)	A swing high which is lower than the preceding swing high
Higher low (HL)	A swing low which is higher than the preceding swing low
Lower low (LH)	A swing low which is lower than the preceding swing low
Double top (DT)	A succession of two swing highs with approximately the same value
Double bottom (DB)	A succession of two swing lows with approximately the same value
Curve	Fibonacci grid used to separate wholesale & retail market structure
Volume Profile	Volume distribution inside the supply & demand zones
VA (value area)	Area with highest concentration of volume within profile

VAH (value area high)	High point in the value area within profile
VAL (value area low)	Low point in the value area within profile
POC (point of control)	Price with the most trade volume within profile
VC (volume cluster)	3 adjacent prices with the most concentration of volume within profile
Volume %	The volume % ratio between the bid & ask in the supply & demand zones
DF (delta factor)	The net delta between the bid & ask in the supply & demand zones
LVN (Low Volume Node)	A price level with a lower volume than the volume above and below this price.

SDVSystem Indicator Parameters & Settings

Group	Parameters	Allowable Values	Description
Timeframe Parameters	**Profile Calculation**	**MINUTE, SECOND, OR TICK** **Default = SECOND**	This is the setting that differentiates how the zone volume profile is calculated. When set to TICK, the profile will populate using tick volume and when set to MINUTE or SECOND, the profile will populate using second/minute volume. When using this indicator on larger time frames or when testing strategies with large lookbacks we recommend using minute as this will produce much faster load times. We also recommend that when you are using tick based charts and want faster load times than using the tick setting…choosing the seconds over minutes is better. **When MINUTE is selected, zone Volume % and Delta Factor will not be applied as this uses tick volume.**
	Limit Type	**Minutes/Bars/NoLimit** **Default = NoLimit**	This determines whether there will be a limit to the number of Minutes or Bars for which the required background data is loaded in order to perform the calculations necessary to produce Supply and Demand zones. Selecting **NoLimit** means Supply and Demand zones will be calculated for every bar on the chart. Selecting **Minutes** or **Bars** means these calculations will be performed only for the last X number of minutes or bars, where X = the value defined by the **Limit Qty** parameter (see below).
	Limit Qty	**Integer > 0** **Default = 10000**	Number of **Minutes** or **Bars**. This defines the number of Minutes or Bars for which Supply and Demand zones will be calculated (it can be any positive integer). ***Reducing this number will reduce load times.***
Parameters	**Apply range filter**	**True/False** **Default = False**	Applies a range filter such that only thrust bars with a significant range will be shown and used for selecting supply and demand zones.
	Size limitation for S/D zones	**Integer > 0** **Default = 750**	Eliminates S/D zones with a width exceeding this specified percentage of the average body range of all bars of the prior trading day (business day).
	Avg. Stop Loss Buffer	**Integer >=0 Default = 3**	This is the distance the stop loss calculator places the stop loss below (demand) or above (supply) to allow for a certain distance in (ticks). When 0 is selected, the stop loss calculator will place the stop loss on the distal line for all zones. Any value greater than 0 will place the stop loss (n) number of ticks above or below the zones.
	Button Text	**Any character string** **Default = SDVSystem**	Allows the user to change the Text for the Drop Down List button appearing at the top of the chart window.
Parameters Market Structure	**Show Market Structure**	**True/False**	Turn on/off the drawing of the swing structure zigzag lines
	Swing Strength	**Integer > 0, Default = 2**	Sets the number of bars used to calculate the swing highs and lows

	Sensitivity double tops & bottoms	**Integer > 0 Default = 0**	Sets the percentage of the average true range of the last 14 bars which is used to identify double tops and bottoms. The difference between two consecutive tops or bottoms should be smaller than this percentage to qualify for a double top or double bottom.
	Text Font	**font settings**	Sets the font for the swing HH/LL/LH/HL text
Curve	**Enabled**	**True/False** **Default = False**	This turns the Fibonacci grid/curve on/off
	Defiance ATR %	**Integer > 0** **Default = 170**	This is an ATR % filter that sets the rules for how much a swing high/low must move to adjust the automatic curve. 170 means the swing high/low must move 170% of the ATR before adjusting the curve.

	Break H/L ATR%	**Integer > 0 Default = 10**	This is an ATR % filter that sets the rules for how much price must break the swing high/low to adjust the automatic curve. 10 means the swing must be broken by 10% of the ATR before adjusting the curve.
	Show Price Labels	**True/False**	Turns the curve price labels on/off
	Show Percent Labels	**True/False**	Turns the curve percent line labels on/off
	Show Name Labels	**True/False**	Turns the curve name labels on/off
	Auto Mode Enabled	**True/False**	This turns the curve auto adjustment on/off
	Zone Snap Mode	**True/False** **Default = True**	This directs whether the top/bottom of the curve attaches to the entire supply/demand zone with market structure or if the curve simply attaches to the market structure itself.
	Percent 1,2,3,4,5	**Integer >=0 Default:** **1- 100** **2- 75** **3- 50** **4- 25** **5- 0**	These are the Fibonacci % values that direct each grid level in the curve. **0-25% = Deep value** **25-50% = Value** **50-75% = Retail** **75-100% = Deep Retail**
	Outline Color	**Default = Black**	Sets the color for the curve lines.
	Outline Dashstyle	**Default = Solid**	Sets the type of lines for the curve
	Outline Opacity	**Integer > 0%** **Default = 100%**	Sets the opacity of the curve lines
	Outline Width	**Integer > 0 Default = 2**	Sets the width of the curve lines

	Deep Retail Color	**Default = Red**	Sets the color for the deep retail grid in the curve (75100%)
	Deep Retail Opacity %	**Integer > 0 Default = 40**	Sets the opacity of the deep retail grid in the curve.
	Retail Color	**Default = Light Coral**	Sets the color for the retail grid in the curve (50-75%)
	Retail Opacity %	**Integer > 0 Default = 20**	Sets the opacity for the retail grid in the curve
	Value Color	**Default = Light Green**	Sets the color for the value grid in the curve (25-50%
	Value Opacity %	**Integer > 0 Default = 20**	Sets the opacity for the value grid in the curve
	Deep Value Color	**Default = Green**	Sets the color for the deep value grid in the curve (0-25%)
	Deep Value Opacity %	**Integer > 0 Default = 40**	Sets the opacity for the deep value grid in the curve
	X Offset (Pixels)	**Integer > 0 Default = 10**	Adjusts the curve in pixels to the right of the last bar painted.
	Text Font	**Default = Arial 10Pt.**	Sets the font for the curve
Profile	**% Of Volume In Value Area**	**Integer > 0 Default = 70**	This is the % setting used to calculate the amount of volume used to determine the value are in the zones.
	Show Profile	**True/False**	This turns the zone volume profile on/off
	Show POC	**True/False**	This turns the zone Point of Control on/off
	Show VAL	**True/False**	This turns the zone Value Area Low on/off
	Show VAH	**True/False**	This turns the zone Value Area High on/off

	Profile Extension	**DEFAULT, EXPAND_1, EXPAND_2, EXPAND_3, EXPAND_LINES**	This is the setting to expand the profile within the zones. Expand lines will expand the POC, VAL, VAH where the other settings will expand all of the profile features including the VC.
	Show Volume Cluster	**True/False**	This turns the zone Volume Cluster on/off
	Show Volume Ratio	**True/False**	This turns the zone Volume % Ratio on/off
	Show Delta Factor	**True/False**	This turns the zone Delta Factor on/off
	Show Volume Values	**True/False**	This turns the zone Volume Values (POC, VA, VC) on/off
	Show All Profiles	**True/False**	This turns all Zone Profiles on/off (master toggle)

Show All Supply Profiles	**True/False**	This turns all Supply Zone Profiles on/off (master toggle)
Show All Demand Profiles	**True/False**	This turns all Demand Zone Profiles on/off (master toggle)
Show All Tested Profiles	**True/False**	This turns all Tested Zone Profiles on/off (master toggle)
Show All Broken Profiles	**True/False**	This turns all Broken Zone Profiles on/off (master toggle)
Profile Color	**Default = Black**	Sets the color for the zone profile composite
Profile Opacity %	**Integer > 0 Default = 40%**	Sets the opacity for the zone profile color
Profile Thickness	**Integer > 0 Default = 5**	Sets the width of the zone profile composite
POC Color	**Default = Yellow**	Sets the color for the zone Point of Control
POC Opacity %	**Integer > 0 Default = 100%**	Sets the opacity for the zone Point of Control color.
POC Thickness	**Integer > 0 Default = 5**	Sets the width of the zone Point of Control line
VAL Color	**Default = Dark Green**	Sets the color for the zone Value Area Low
VAL Opacity %	**Integer > 0 Default = 100%**	Sets the opacity for the zone Value Are Low color
Val Thickness	**Integer > 0 Default = 5**	Sets the width of the zone Value Area Low line
VAH Color	**Default = Maroon**	Sets the color for the zone Value Area Low
VAH Opacity %	**Integer > 0 Default = 100%**	Sets the opacity for the zone Value Are Low color
VAH Thickness	**Integer > 0 Default = 5**	Sets the width of the zone Value Area High line
Volume Cluster Color	**Default = Black**	Sets the color for the zone Volume Cluster
Volume Cluster Opacity %	**Integer > 0 Default = 75%**	Sets the opacity for the zone Volume Cluster color
Volume Cluster Thickness	**Integer > 0 Default = 3**	Sets the width of the zone Volume Cluster
Volume Ratio Up Color	**Default = Lime Green**	Sets the color of the zone Volume Ratio Up %
Volume Ratio Up Opacity %	**Integer > 0 Default = 65%**	Sets the opacity for the zone Volume Ratio Up %
Volume Ratio Down Color	**Default = Red**	Sets the color of the zone Volume Ratio Down %
Volume Ratio Down Opacity %	**Integer > 0 Default = 65%**	Sets the opacity for the zone Volume Ratio Down %
Volume Ratio Text Font	**Default = Arial 10pt**	Sets the font zone Volume Ratio
Volume Ratio Text Color	**Default = Black**	Sets the text color for the zone Volume Ratio

	Delta Factor Text Font	**Default = Arial 10pt**	Sets the test font for the zone Delta Factor
	Delta Factor Up Text Color	**Default = Line Green**	Sets the color for the zone Delta Factor Up text

	Delta Factor Down Text Color	**Default = Red**	Sets the color for the zone Delta Factor Down text
	Delta Factor Text Opacity %	**Integer > 0 Default = 100%**	Sets the opacity for the zone Delta Factor text opacity.
	Delta Factor Text Back Color	**Default = White**	Sets the color for the zone Delta Factor text background
	Delta Factor Text Back Opacity %	**Integer > 0 Default 65%**	Sets the opacity for the zone Delta Factor text background
	Volume Values Text Font	**Default = Arial 10pt**	Sets the test font for the zone Volume Values
	Volume Values Text Color	**Default = Black**	Sets the color for the zone Volume Values text
	Volume Values Text Opacity %	**Integer > 0 Default = 100%**	Sets the opacity for the zone Volume Values text opacity.
	Volume Values Text Back Color	**Default = White**	Sets the color for the zone Volume Values text background
	Volume Values Text Back Opacity %	**Integer > 0 Default 65%**	Sets the opacity for the zone Volume Values text background
	Tested Marker Color	**Default = White**	Sets the color for the zone tested marker
	Tested Marker Opacity %	**Integer > 0 Default = 65%**	Sets the opacity for the zone Tested Marker
	Tested Market Thickness	**Integer > 0 Default = 3**	Sets the thickness of the zone Tested Marker line
	Show LVNs	**True/False Default = True**	Show or hide Profile's Low Volume Nodes
	Expand LVNs	**True/False Default = False**	If True, will expand LVNs to the entire zone width. If false, will stick to histogram size.
	Number of LVNs to display	**Integer > 0 Default = 2**	Show a specific number of LVNs starting from the top for Demand Zones, and from the bottom for Supply Zones.
	LVNs Color	**Default = RoyalBlue**	Sets the color of LVNs in the profile
	LVNs Opacity %	**Integer > 0 Default = 100%**	Sets the opacity of LVNs in the profile
	LVNs Thickness	**Integer > 0 Default = 5**	Sets the width of LVNs in the profile

Visual Toggles	**Show SDV Zones**	**True/False**	Turns all zones on/off
	Show Supply Zones	**True/False**	Turns supply zones on/off
	Show Demand Zones	**True/False**	Turns demand zones on/off
	Show Fresh Zones	**True/False**	Turns all zones that have fresh order flow or have not been touched by price on/off
	Show Tested Zones	**True/False**	Turns all zones that have been touched by price on/off
	Show Tested Shading	**True/False**	Turns the zone tested shading on/off
	Show Tested Marker	**True/False**	Turns the zone tested marker on/off

	Show Broken Zones	**True/False**	Turns all zones that have been breached by price on/off
	Filter Qualified Zones	**True/False**	If “True”, then only qualified zones will be shown, if “False”, then all zones will be permitted to show.
	Show Price Labels	**True/False**	Turns on/off price labels on upper and lower lines of all zones
Visual Style	**Zone Colors**	**Custom/Web/System**	Allows for selecting zone fill colors for all zone types (Fresh/Tested/Broken)
	Zone Outline Colors	**Custom/Web/System**	Allows for selecting zone outline colors for all zone types (Fresh/Tested/Broken)
	Zone Opacity	**Integer > 0 Default = 50**	Allows for selecting the opacity of zone colors for all zone types (Fresh/Tested/Broken)
	Zone Outline Style	**Default = Solid**	Allows for changing the style of the zone outline
	Text Font	**Default = Arial 8pt**	Allows for changing the text font and size
	Text Color	**Custom/Web/System**	Allows for changing the text font color
Visual Style Market Structure	**ZigZag Dash Style**	**Default = Dot**	Allows for changing the style of the zigzag style
	Upswing Color	**Default = Lime**	Allows for changing the color of market structure upswings
	Downswing Color	**Default = Dark Redd**	Allows for changing the color of market structure downswings
	Double Top/Bottom Color	**Default = Black**	Allows for changing the color of the double top/bottom labels.
Visual Style Paintbars	**Enabled**	**True/False**	Turns paint bar color on/off

	Body Colors	**Custom/Web/System**	Allows for changing the bar colors
	Outline Colors	**Custom/Web/System**	Allows for changing the bar outline colors
Alerts	**On entering zone**	**True/False** **Default = False**	Signals a sound when price enters into a visible zone
Volume Averages Set 1	**Enabled**	**True/False** **Default = False**	This enables the Volume Average #1 to be visible.
	MA Period	**Any positive integer** **Default = 20**	This defines the period for Volume Average #1
	MA Type	**EMA/SMA** **Default = EMA**	This defines the type for Volume Average #1
	Cluster Color	**Default = Black**	This sets the color of the border of the volume cluster moving average #1.
	Cluster Fill Color	**Default = Black**	This sets the color for the fill of the volume cluster moving average #1.
	Cluster Fill Opacity (%)	**Default = 20**	This sets the opacity for the Cluster Fill Color for Volume Average #1
	Cluster Size (ticks)	**Default = 3**	This defines the thickness of the Volume Average #1 in ticks.
Volume Averages Set 2	**Enabled**	**True/False** **Default = False**	This enables the Volume Average #2 to be visible.
	MA Period	**Any positive integer** **Default = 50**	This defines the period for Volume Average #2
	MA Type	**EMA/SMA** **Default = SMA**	This defines the type for Volume Average #2
	Cluster Color	**Default = Black**	This sets the color for the border of the volume cluster moving average #2
	Cluster Fill Color	**Default = Black**	This sets the color for the fill of the volume cluster moving average #2.
	Cluster Fill Opacity (%)	**Default = 20**	This sets the opacity for the Cluster Fill Color for Volume Average #2
	Cluster Size (ticks)	**Default = 3**	This defines the thickness of the Volume Average #2 in ticks.

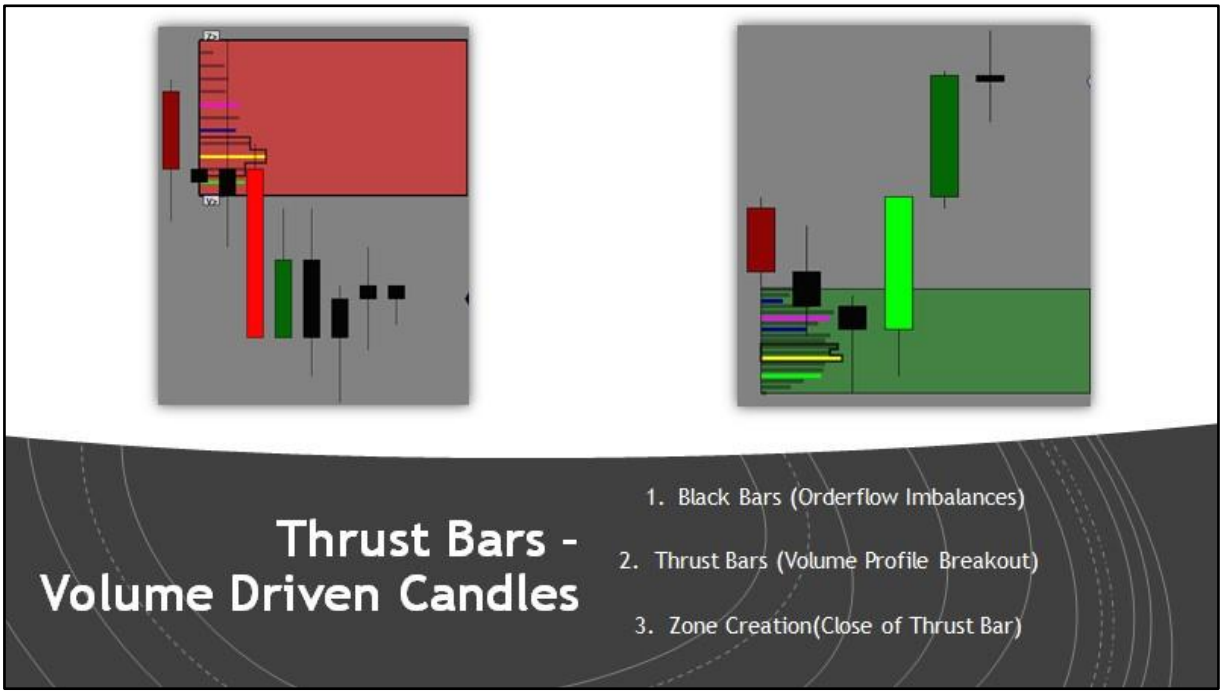
Global Visuals	**Various zone templates**	**Rectangle template name**	The globals are chart elements called "Rectangles"...to set the color, line thickness and region opacity of those rectangles, you can use "Rectangle Templates". We provide a large number of suggested rectangle templates in our zip file called "DT_Sean.zip". That "DT" stands for "Drawing Tool".
Qualified Zones	**Qualify on Low Volume**	**True/False**	Qualify zones whose "VA Volume" is less than the average volume of all zone value areas.
	Qualify on Thrust	**True/False**	Qualify zones whose thrust bar exceeds the highest basing bar high, or lowest basing bar low
	Qualify on Basing Count	**True/False**	Qualify zones whose number of basing (consolidation) candles does not exceed the "Max Basing Count" parameter value.
	Low Vol Pct of Avg Vol	**Percentage (0-100)**	Maximum low volume to make the qualification. 100 means it is at or below the average volume, 60
			means it's at or below 60% of the average volume, etc.
	Max Basing Count	**Integer between 1 and 5**	Maximum number of basing (consolidation) candles for a qualified zone
	Qualified Zone Text Back Color	**Color**	The background color of the "Volume Values" text region that prints to the left of the left edge of each zone. A qualified zone will have its background color set to whatever color you select here.
	Disqualified Zone Text Back Color	**Color**	The background color of the "Volume Values" text region that prints to the left of the left edge of each zone. A non-qualified zone will have its background color set to whatever color you select here.
Trade Plan	**Entry Offset ticks**	**Integer >= 0**	Number of ticks to advance entry level toward the market price.
	SL Offset ticks	**Integer between -100 and +100**	Number of ticks to enlarge the SL distance. Positive numbers increase the SL distance, negative numbers decrease the SL distance
	ATR Period	**Integer > 0**	Sets the period of the ATR that is used throughout the SL and TakeProfit distance calculations
	Trade Plan Loc	**Left/Right**	Lets you visually shift the trade plan levels and text left or right, to help give you a visual distinction to the levels
	Show Longs/Shorts	**True/False**	Control which trade plans are shown

	Show Near/Far	**True/False**	Control which trade plans are shown
	Enable on Fresh/Tested/ Qualified Zones?	**True/False**	Control what type of zones will get trade plans
	Line length	**Integer**	Length of the lines that mark the trade plans
	SL Calc Basis	**ZoneEdge/ATR/ Ticks**	Determines calculation method for placement of SL level
	TP Calc Basis	**ATR/Ticks/RR**	Determines the calculation method for placement of the take-profit levels. NOTE: "RR" is reward-to-risk multiple
	Show Lines (T1/T2/SL)	**True/False**	Controls visualization of the various lines in each trade plan
Trade Plan Entry	**Entry Basis**	**AtZoneEdge/ AtNearLVN/ AtFarLVN**	Determines the basis of the location of the entry level
	Label for Longs/Shorts	**Text**	Controls the label text for the entry flag
	Font	**Font controls**	Font of the Entry text
	Entry line style/width		Controls the entry line visuals
Trade Plan StopLoss	**Font**	**Font controls**	Font of the SL text
	SL size ATRs	**Decimal number**	Multiple of the current ATR, used only if "SL Calc Basis" is set to "ATR"
	SL size Ticks	**Integer number**	Number of ticks for SL, used only if "SL Calc Basis" is set to "Ticks"
	SL Label for Longs/Shorts	**Text**	What text do you want on the stoploss levels
	SL Color for Longs/Shorts	**Color**	Color of the SL line
	SL line style/width		Controls SL line visuals
Trade Plan Target1	**Font**	**Font controls**	Font of the T1 text
	Target1 ATRs	**Decimal number**	Multiple of current ATR, used only if "TP Calc Basis" is "ATR"

	Target1 RRs	**Decimal number**	Multiple of current RR, used only if “TP Calc Basis” is “RR”
	Target1 Ticks	**Integer number**	Number of ticks for T1, used only if “TP Calc Basis” is “Ticks”
	Target1 label for longs/shorts	**Text**	Label text for T1
	Target1 color for Longs/Shorts	**Color**	Color of T1 line
	Target1 line style/width		Controls the T1 line visuals
Trade Plan Target2	**Font**	**Font controls**	Font of the T2 text
	Target2 ATRs	**Decimal number**	Multiple of current ATR, used only if “TP Calc Basis” is “ATR”
	Target2 RRs	**Decimal number**	Multiple of current RR, used only if “TP Calc Basis” is “RR”
	Target2 Ticks	**Integer number**	Number of ticks for T2, used only if “TP Calc Basis” is “Ticks”
	Target2 label for longs/shorts	**Text**	Label text for T2
	Target2 color for Longs/Shorts	**Color**	Color of T2 line
	Target2 line style/width		Controls the T2 line visuals
ATR on Chart	**ATR Mode**	**Points/Ticks** **Default = Points**	When displayed, this determines whether the ATR Box in the lower right corner of the chart will express the ATR of the chart bars in Points or Ticks.
	ATR Period (on chart)	**Any positive integer** **Default = 0**	This defines the ATR period when the ATR Box is displayed on the chart. ***If this parameter is set to 0 then the ATR Box will not be displayed***.
Set Up	**Calculate**	**OnBarClose / OnEachTick / OnPriceChange** **Default = OnBarClose**	When set to OnBarClose, indicator recalculates at bar close only. This reduces the processing load and gives you best performance. For this indicator to work properly it **MUST ALWAYS BE SET TO Calculate = OnEachTick**

Thrust Bars & Candle Colors

Black Candles = Orderflow imbalance bars (Consolidation Bars). **Green/Red Fluorescent Thrust Bars =** Volume driven bars that complete the pattern that forms a supply/demand zone imbalance supported by VWTPO (Volume Weighted Time Price Opportunity). **Normal Green/Red Trending Bars =** Normal bars that act as filler bars between normal price activity.



Zone Formation – Range Filter

When the range filter is active, **thrust bars will only be shown:**

- **When their body range is larger than the average body range of the consolidation**
- **When their range is larger than the average body range of all bars of the current trading day (business day/trading session)**
- **When their body range is larger than the average body range of all bars of the prior trading day (business day/trading session)**

The significance of this filter is to remove small thrust bars that create zones based on weaker moves in volatility and volume. This is intended to only be used on bars that display a different size body and range (OHLC). **Time, Volume & Tick charts will use this filter effectively. Range bars would not require this as their range is equal at all times to its periodicity.**

The example below demonstrates how the Applied range filter restricts prior zones displayed in the above image and plots different zones due to the required thresholds of the range thrust bars. See the difference in zone locations below.

<u>Zone Formation – MaxATR%</u>

The SDVSystem indicator allows for eliminating zones from highly volatile consolidation areas. These zones would be too large and the return to risk ratio would be unfavorable. Per the default setting all zones which are larger than 750 % of the average body range of all bars of the prior trading day (business day) will not be plotted. This filter can be altered by changing the % of ATR as each market has different range volatility. You can reduce the MaxATR% to remove zones too large to trade per your risk tolerance.

In the examples below, you will see how the Supply zone is present when the Max ATR is set to 750%. However, in the 2nd image you will see when we drop the ATR setting to 250% this removes the large supply zone and permits different smaller zones to form later on.

ATR Box

The ATR Box option displays a box in the lower right corner of the chart that shows the current ATR for the chart bars as defined. The ATR can be displayed in Points or Ticks. When the ATR period is set to 0, the ATR Box will not be displayed. See the images below.

Market Structure

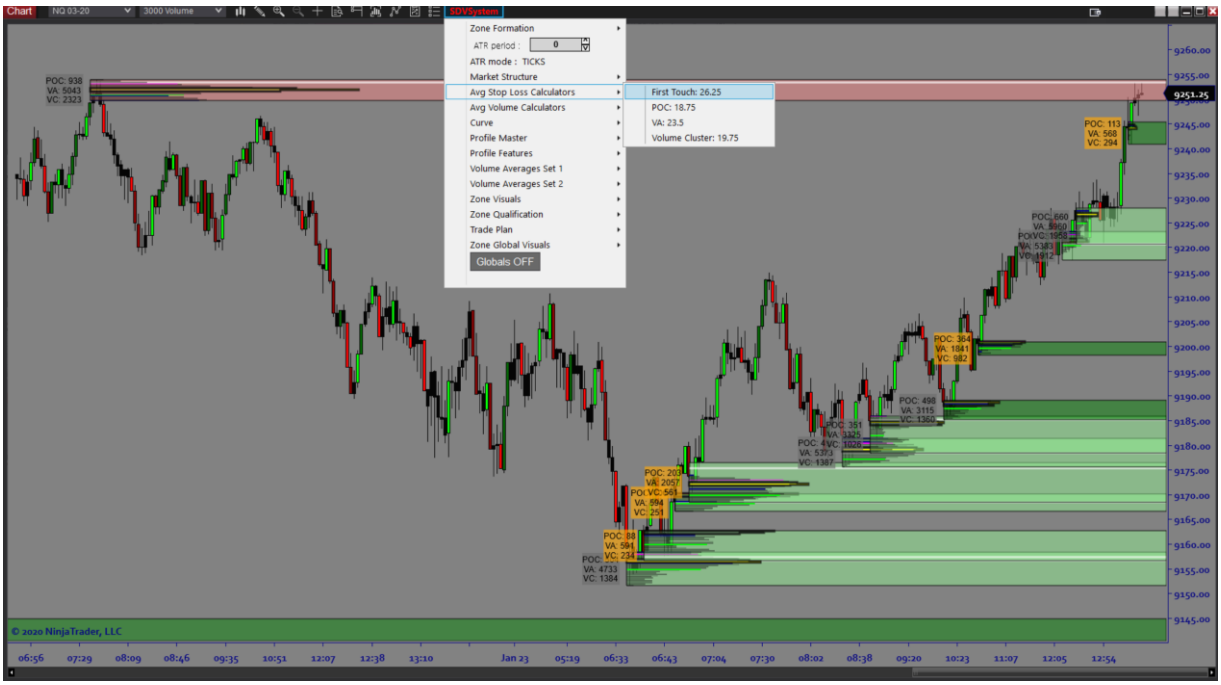
The market structure is exposed using a zigzag indicator. It can be changed via the settings for the swing strength and % of ATR. A higher number for the swing strength will lead to fewer swings. The % of ATR will determine how far price must breach the prior swing highs/lows in order to shift market structure and trend direction.

Average Stop Loss Calculators

The average stop loss calculator determines the average stop loss sizes (in ticks) using every zone (Fresh/Tested/Broken) on the chart. It uses the lookback period loaded on the chart to take the average stops sizes from all zones.

The average stop loss calculator uses a (Stop Loss Buffer) which can be set via the indicator parameters. By default this is set to 3, which means the stop loss will go 3 ticks below demand and 3 ticks above supply. The entry used in these calculations is based on 4 categories:

1. First Touch (Entry is at the 1st touch of a zone)
2. POC (Entry is at the 1st touch of a zone Point of Control)
3. VA (Entry is at the 1st touch of a zone Value Area)
4. Volume Cluster (Entry is at the 1st touch of the zone Volume Cluster)

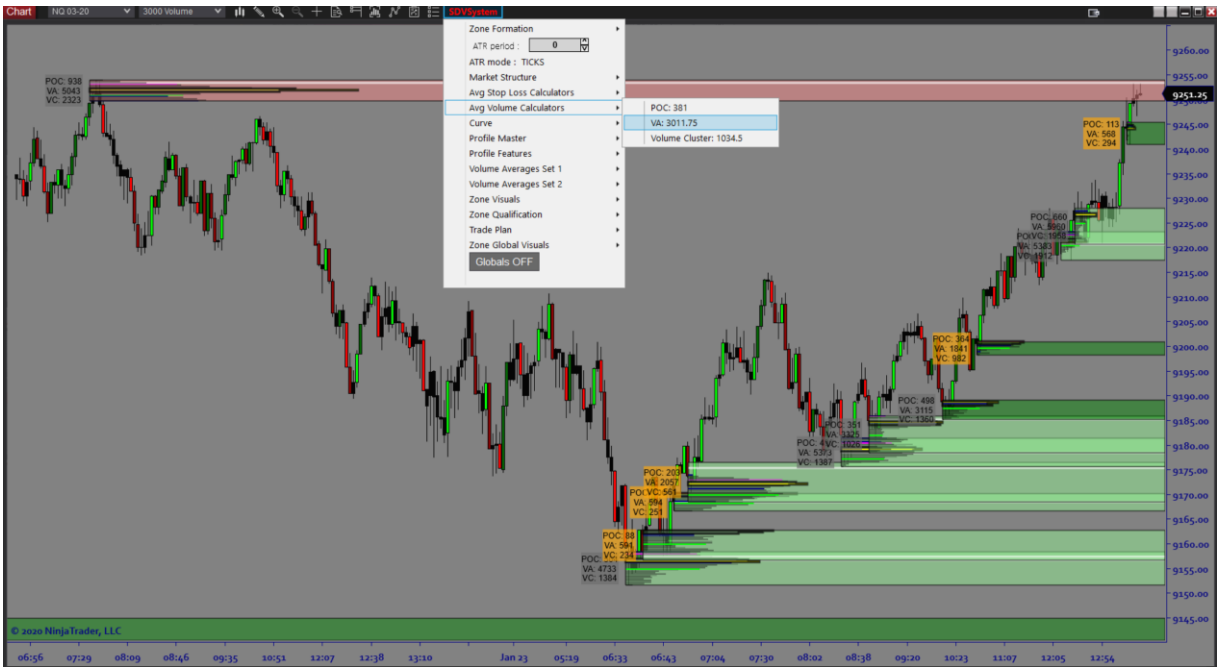


Average Volume Calculators

The average volume calculators determine the average zone volume for (POC – Point of Control), (VA – Value Area) & (VC – Volume Cluster) using every zone (Fresh/Tested/Broken) on the chart. It uses the lookback period loaded on the chart to take the average volume values from all zones.

This allows us to identify the averaged executed volume data for all zones which is useful when comparing it to individual zones when trading. This feature is specifically useful in conjunction with the (VV – Volume Value) toggles for each individual zone.

(Note: You can compare the individual zone volume values against the average zone volume data to see if the zone you are looking to trade is displaying above average or below average volume)



The Zone Volume Values is the premise for the Zone Qualifications section explained later in the manual. Below. We will expand on the SDVSystem and the Volume filters for Quant Volume Filters.

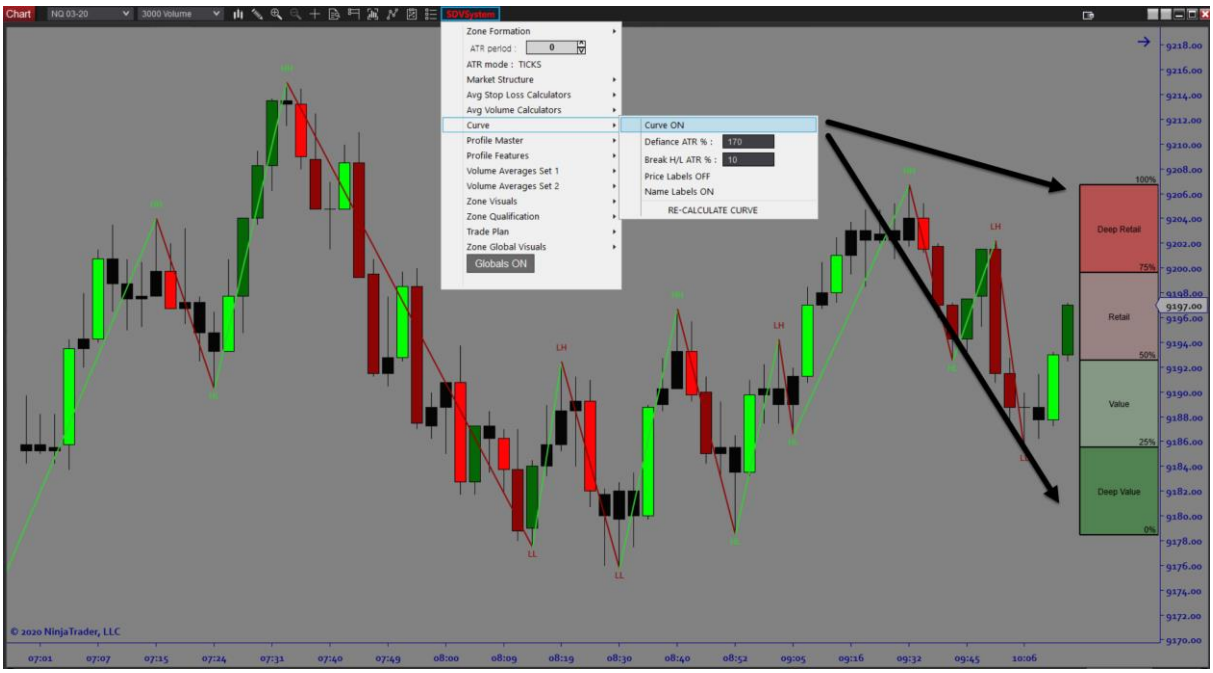
Curve

The automatic curve utilizes a method of Fibonacci to provide a grid system separating wholesale and retail price areas based on market structure and orderflow supply & demand. This can be customized to create different levels of grids. Our default settings are (0%, 25%, 50%, 75%, and 100%).

The **Defiance Filter** is an ATR % filter that sets the rules for how much a swing high/low must move to adjust the automatic curve. 170 means the swing high/low must move 170% of the ATR before adjusting the curve. The **Break High/Low ATR Filter** is an ATR % filter that sets the rules for how much price must break the swing high/low to adjust the automatic curve. 10 means the swing must be broken by 10% of the ATR before adjusting the curve.

Price Labels, percent labels, and name labels allow to toggle on/off the visuals located for each grid.

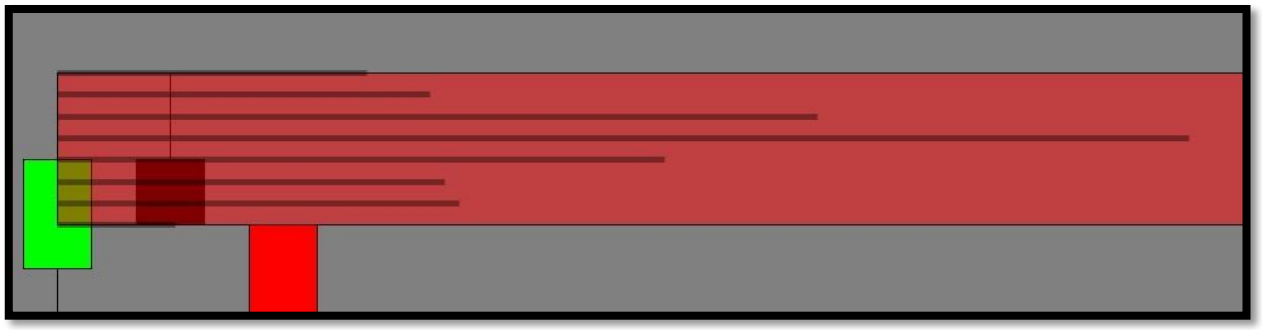
The curve grid is separated into 4 sections (Deep Value/Value/Retail/Deep Retail) and is used to identify price levels at value and retail locations.



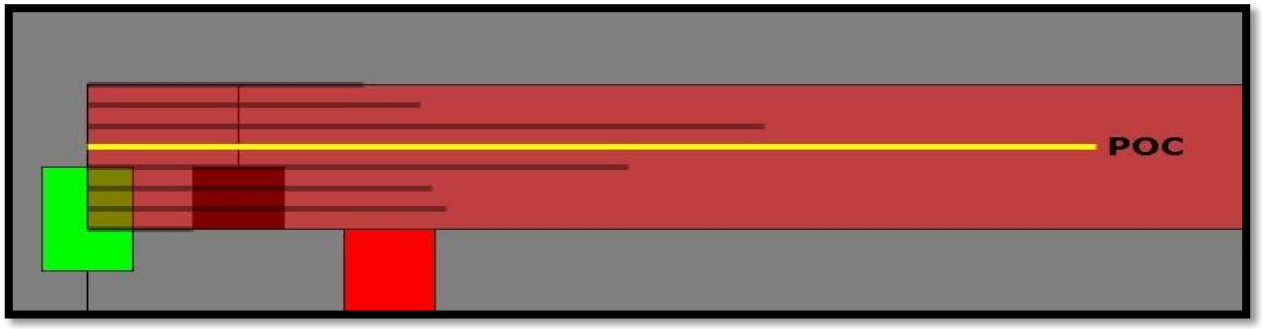
Volume Profile Overview

Volume profiles are a histogram of the volume transacted at each price over a specific span of time such as a day, month, year or even a single bar. Architects A.I. has specific ways in calculating volume profile **using an aggregate of multiple bars within the origin of supply and demand imbalances (zones)**. Within each zone we extract the following volume data: (All examples are derived from a supply zone volume profile. The same applies to demand zone profiles)

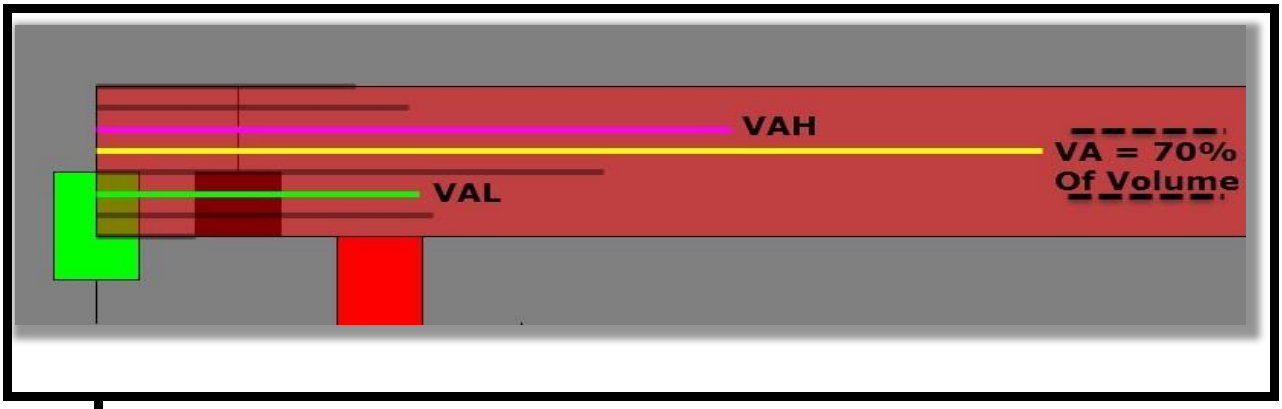
- **Volume Profile –** the entire volume profile that displays the distribution of volume using standard deviations, a basic statistical measurement device, to identify the range of the most-accepted prices.



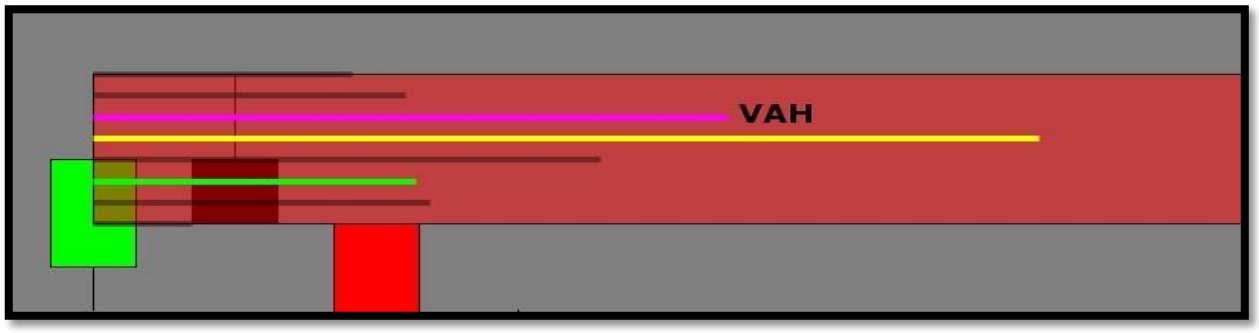
- **POC (point of control) –** The price level within the profile where the most volume was traded.



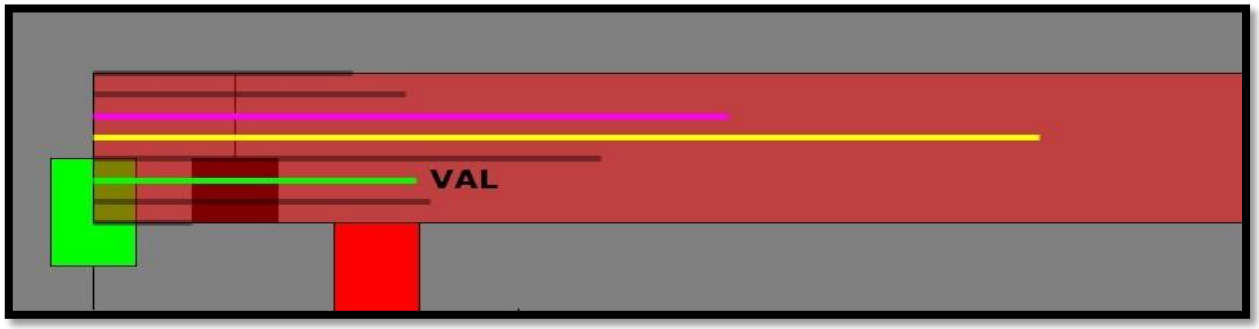
- **VA (value area) –** The area within the profile in which 70% of the volume is traded.



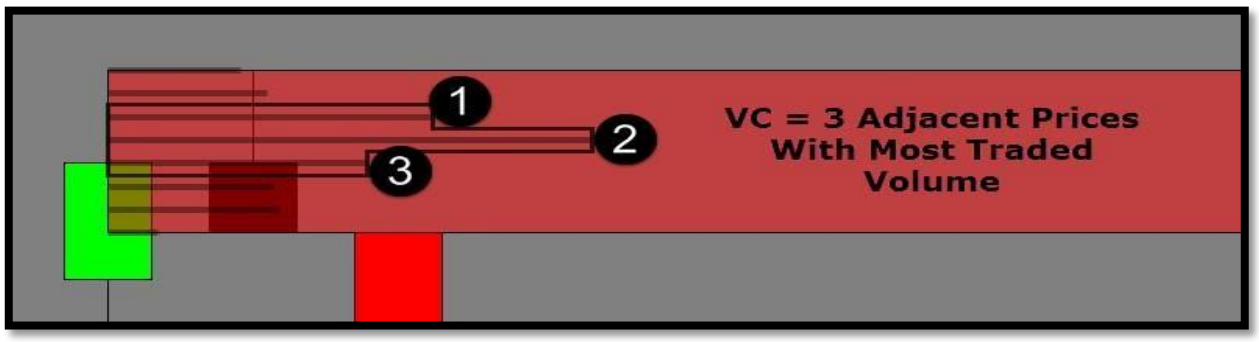
- **VAH (value area high) -** The highest price within the value area.



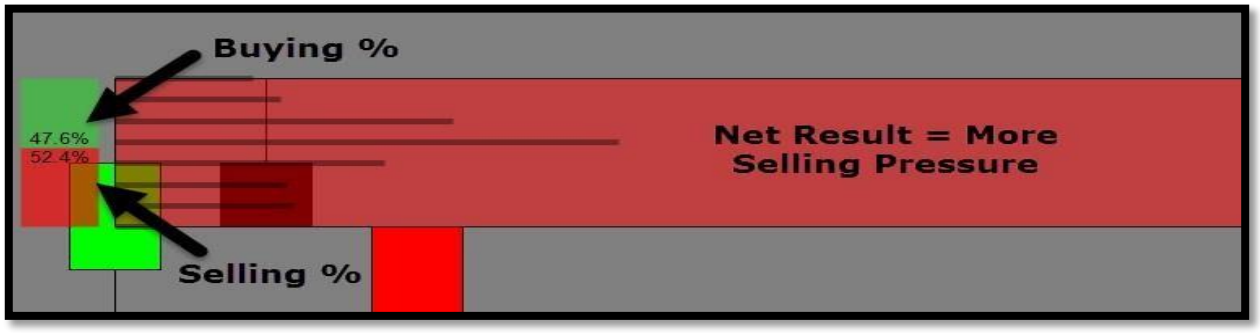
- **VAL (value area low) –** The lowest price within the value area.



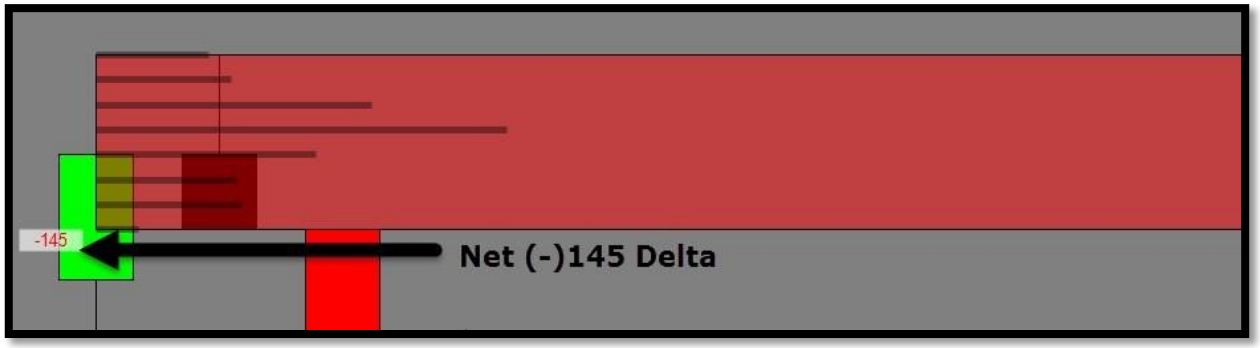
- **VC (volume cluster) –** The 3 adjacent prices with the highest concentration of volume. This often includes the POC however, some instances will produce 3 adjacent price levels within the profile that does not include the POC.



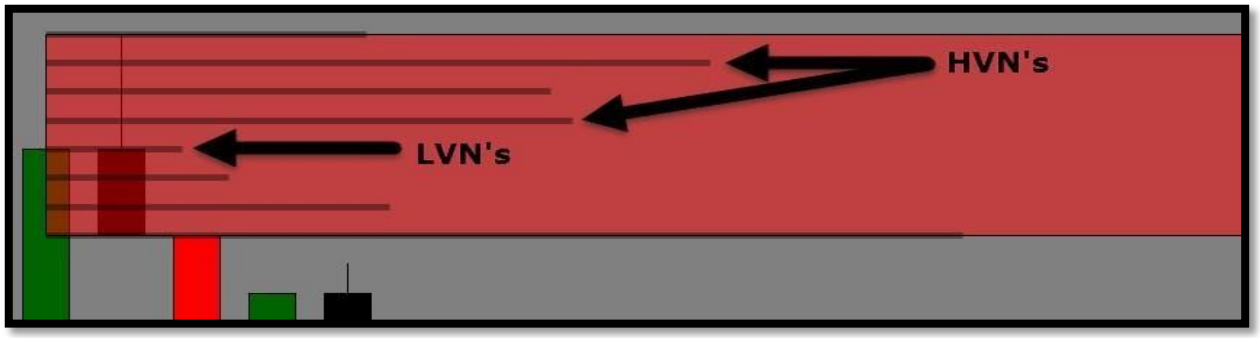
- **Volume % Ratio -** The volume up/down ratio displays the ratio of buy vs. sell transactions that occur within the supply or demand zone. (**Only works with TICK PROFILE)**



- **Delta Factor –** The net delta displays either a (+) delta or (-) delta for each zone. Net delta refers to the relationship between volume at bid vs. volume at ask. (**Only works with TICK PROFILE)**



- **LVN (low volume node) –** This is a valley in volume within the profile. LVN's are considered "unfair" prices by the market. These are prices where market participants act quickly. LVN's are formed because they are prices that have not been traded into previously. They are prices that have not seen much time or volume because participants took quick action previously at these price levels.

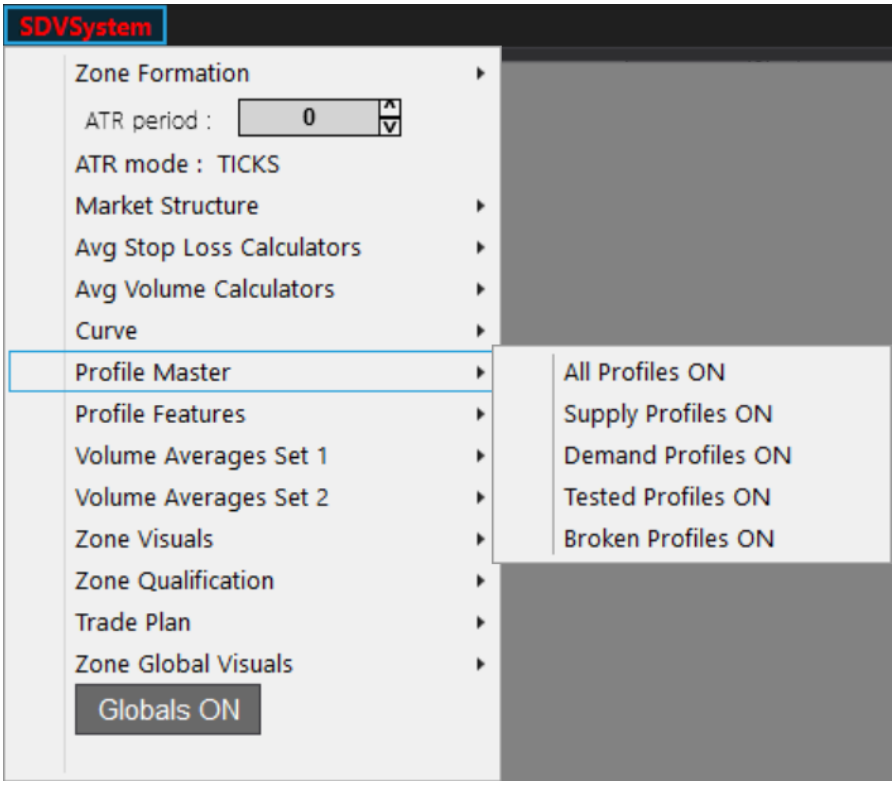


Additional Volume Profile Terms (Not part of indicator but useful information for trading):

- **HVN (high volume node) –** This is a peak in volume within the profile. HVN are ranges of accepted prices – prices that were deemed "fair" by the market. These are areas where price can be expected to move slowly, and can often create choppy price action, because of the lack of force for action by market participants.

Profile Master

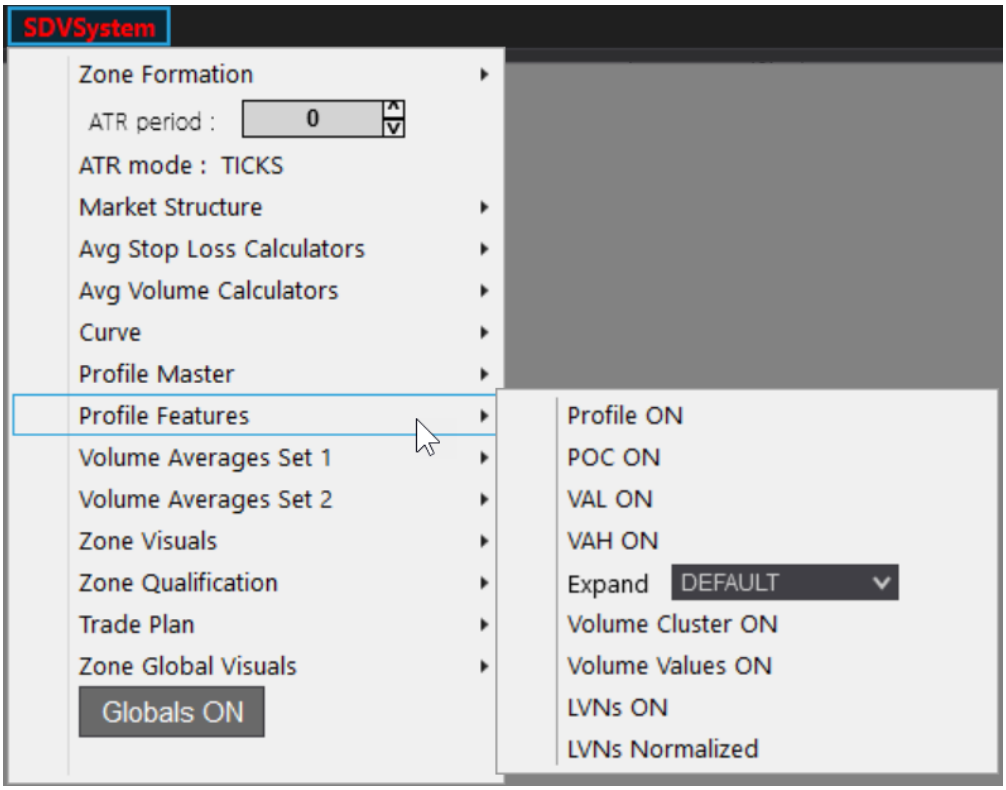
This is the master control for turning the zone volume profiles on/off. We have options for (All Profiles, Supply Profiles, Demand Profiles, Tested Profiles and Broken Profiles). This allows us to manipulate the various zone profiles depending on which zone profiles we want displayed.



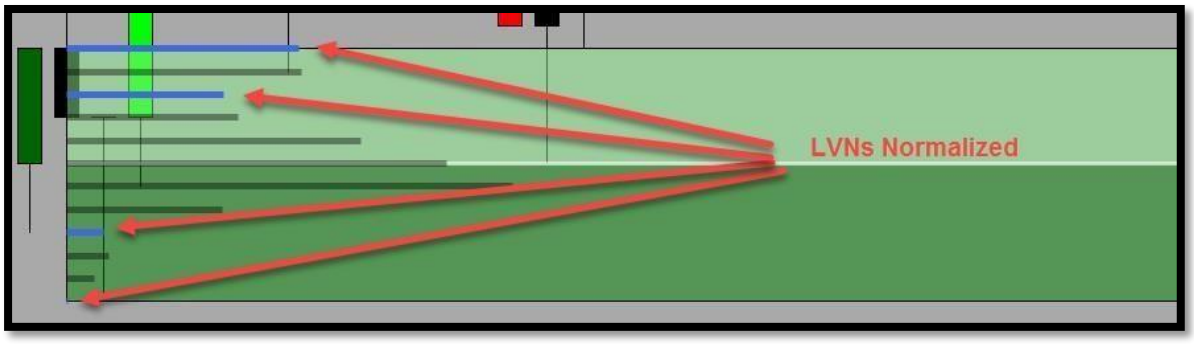
Profile Features

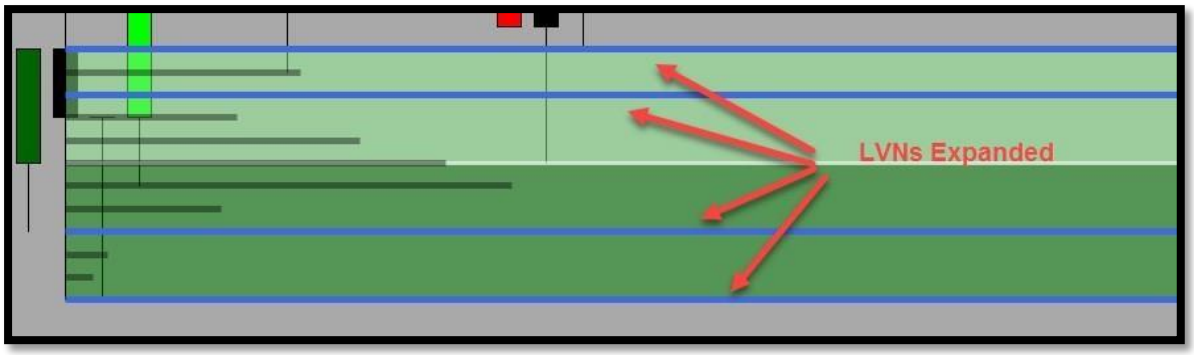
This is the control center for all the zone profile features. You can manually turn on/off all profile features (Profile, POC, VAL, VAH, Volume Cluster, Volume Values, LVNs' display). There is also a setting within this section labelled "**Expand**" which is used to adjust the profile expansion within the zones.

- **Default** (Sets the zone profile to minimum requirement)
- **Expand_1** (Sets the zone profile to 1st expansion)
- **Expand_2** (Sets the zone profile to 2nd expansion)
- **Expand_3** (Sets the zone profile to 3rd expansion)
- **Expand_Lines** (Expands the POC, VAH, and VAL to entire the zone)



You can control the LVNs independently by setting them to ON or OFF and then expand them to the entire zone width (Expanded) or to the histogram size (Normalized).



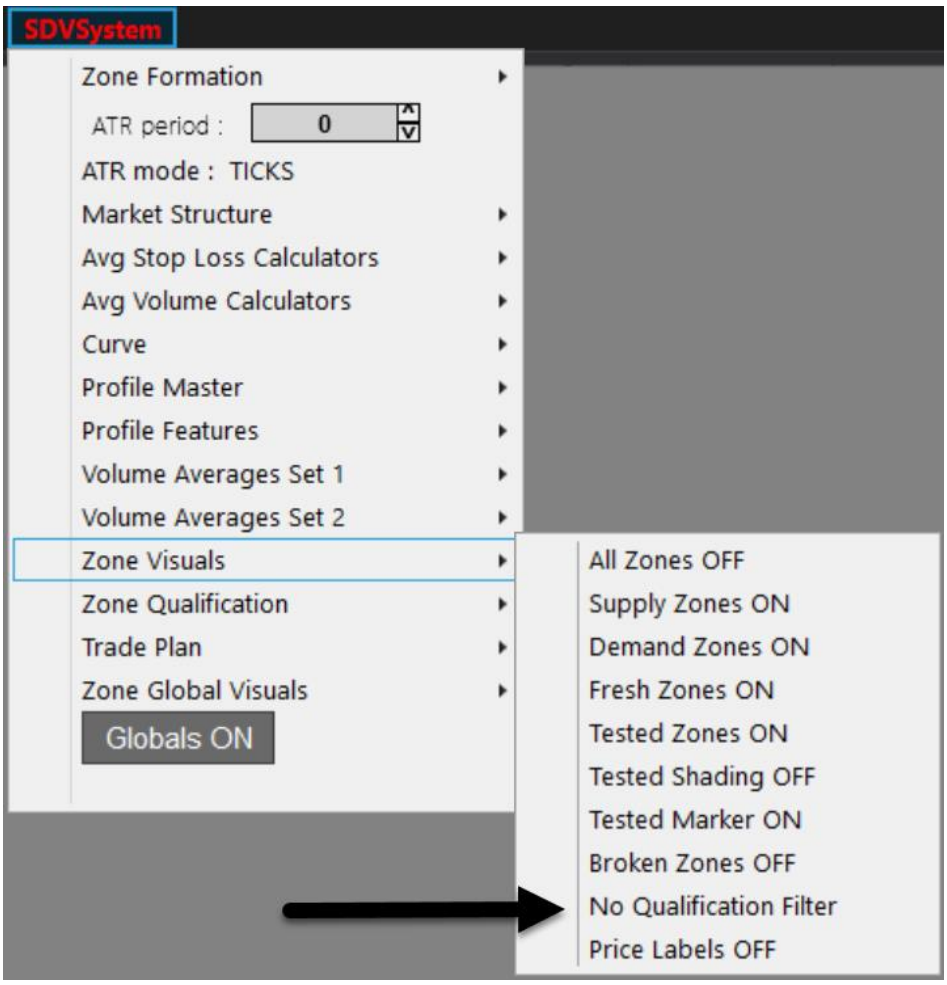


Volume Averages Set 1 and 2

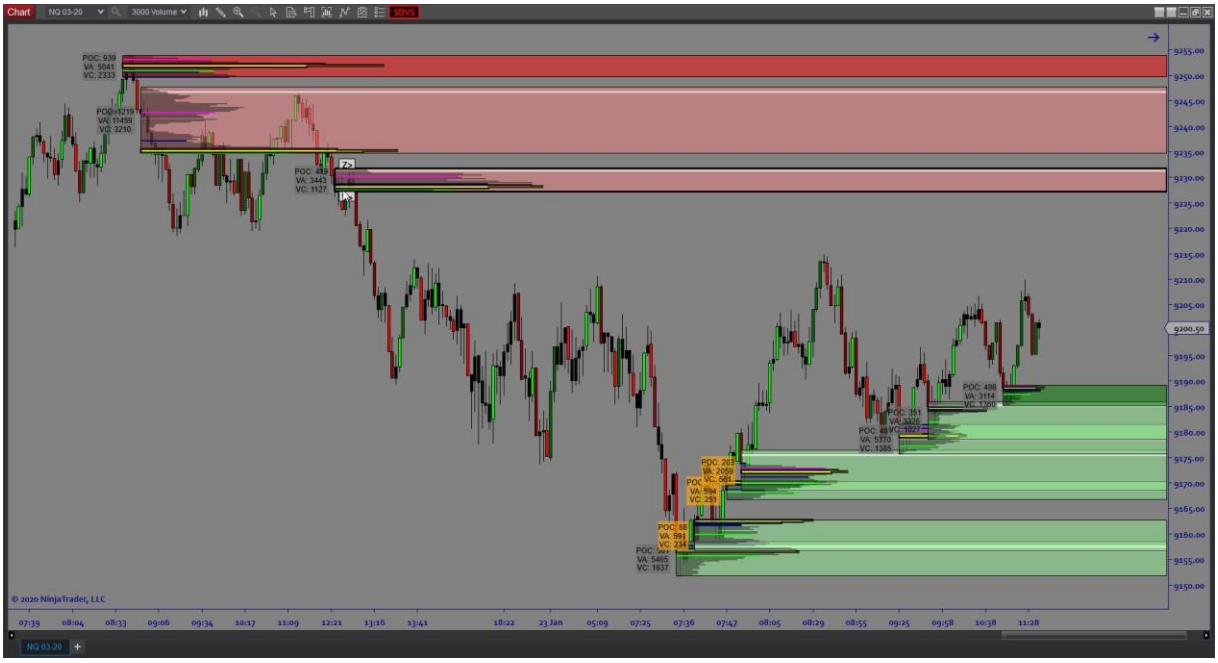
The SDVSystem has 2 sets of (Volume Averages). These are computed by selecting the average (Type) EMA – Exponential Moving Average or SMA – Simple Moving Average and by selecting the (Period) which defines the number of bars look back to calculate the average. These averages are driven by volume data of each price bar. The use of these averages can be a good guide for directional trends, momentum and overall sentiment of volume.

Visuals:

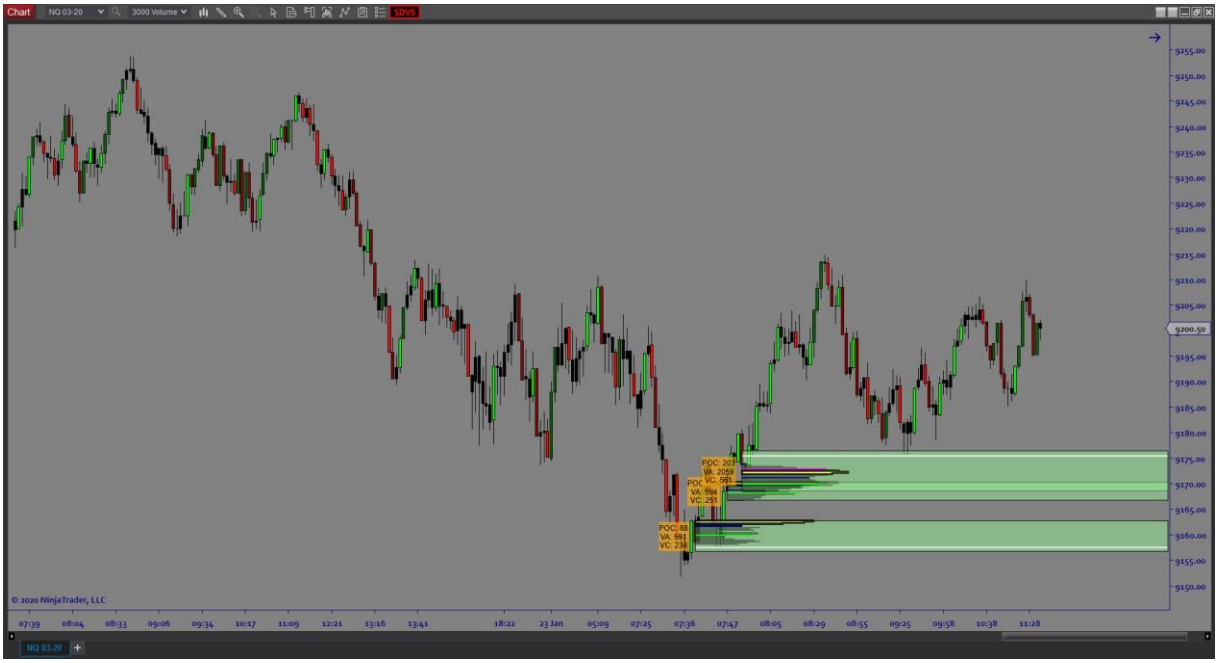
This is the control center for all zones. You can manually turn on/off supply or demand zones based on (**fresh, tested and broken**) zones. You can choose to display either a (**tested zone shading**) feature or (**tested zone marker**) feature, which allows for a visualized look of how far price has traded into a zone. **We have also added the Feature to turn on/off QUALIFIED ZONES. This is directly tied to the SDVSystem aspect for the Quant Filters. This will allow you to set all the settings in your ZONE QUALIFICATION SECTION and then turn the Qualified Zones on/off accordingly.**



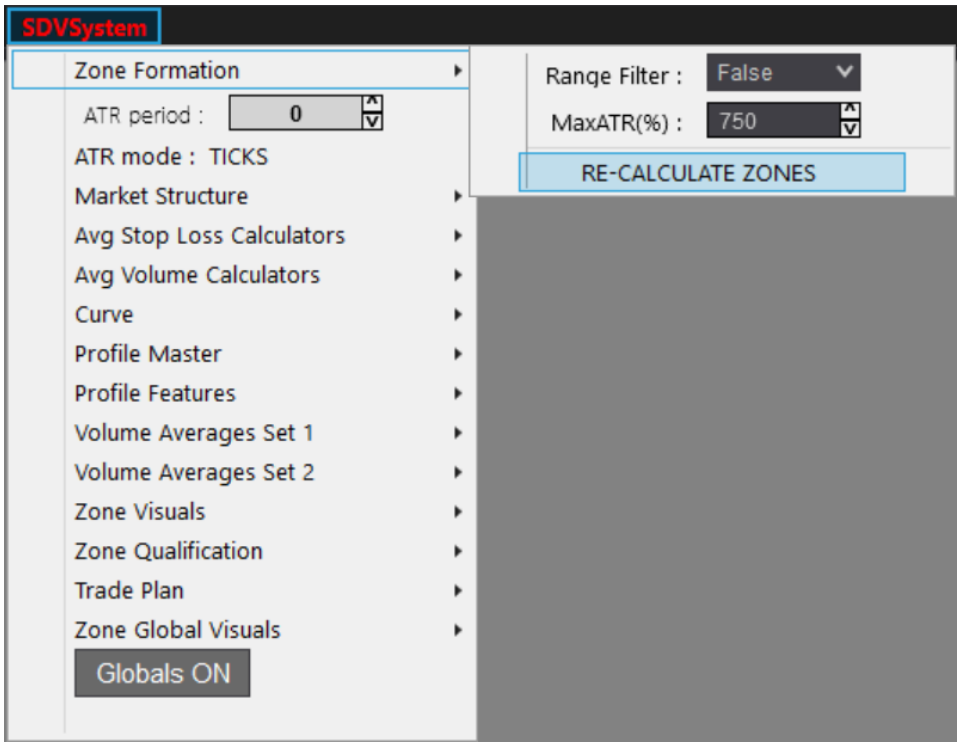
This image below shows the chart with all zones on (fresh/tested/qualified)



This image below shows only Qualified zones met by the specific settings in the Zone Qualification section which will be explained below.



It is also recommended to **“Re-Calculate”** the zones whenever you want the indicator to restore all the applied zone data and reset the zones to their original locations. This feature is located under the “**Zone Formation**” toggle (or simply hit F5 on your keyboard).

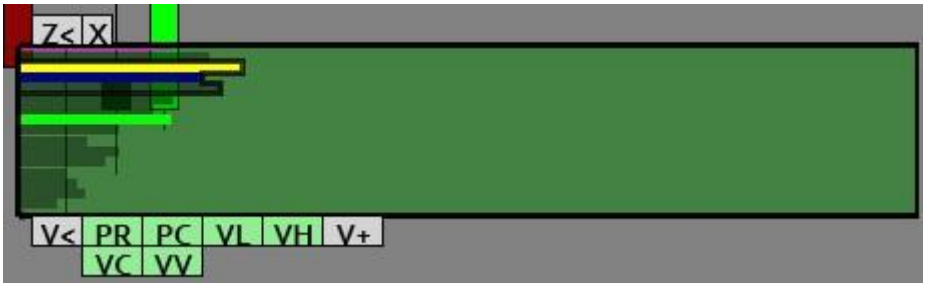


The SDVSystem can manually override all master profile features as each zone has an individual toggle that controls all zone profile features on a zone-by-zone basis.

(PR = Profile, PC = POC, VL = VAL, VH = VAH, V+ = Expand Profile, VC = Volume Cluster, V% = Volume Ratio, DF = Delta Factor & VV = Volume Values)

****The Delta factor and Volume Ratio is only available when the SDVSystem is set to read tick data. When using second or minute it is disabled by default. *****

You can delete the zone as well by clicking the (X) at the top left corner of the zone.



<u>Overlap filter</u>:

The SDVSystem indicator has a **<u>built-in</u>** overlap filter. This is not a feature or setting that can be adjusted by the user, it is an internal feature in the algorithm.

New supply zones are added when the value areas **(identified by the zone VWTPO)** of the new supply zone and all active supply zones do not overlap.

New demand zones are added when the value areas **(identified by the zone VWTPO)** of the new demand zone and all active demand zones do not overlap.

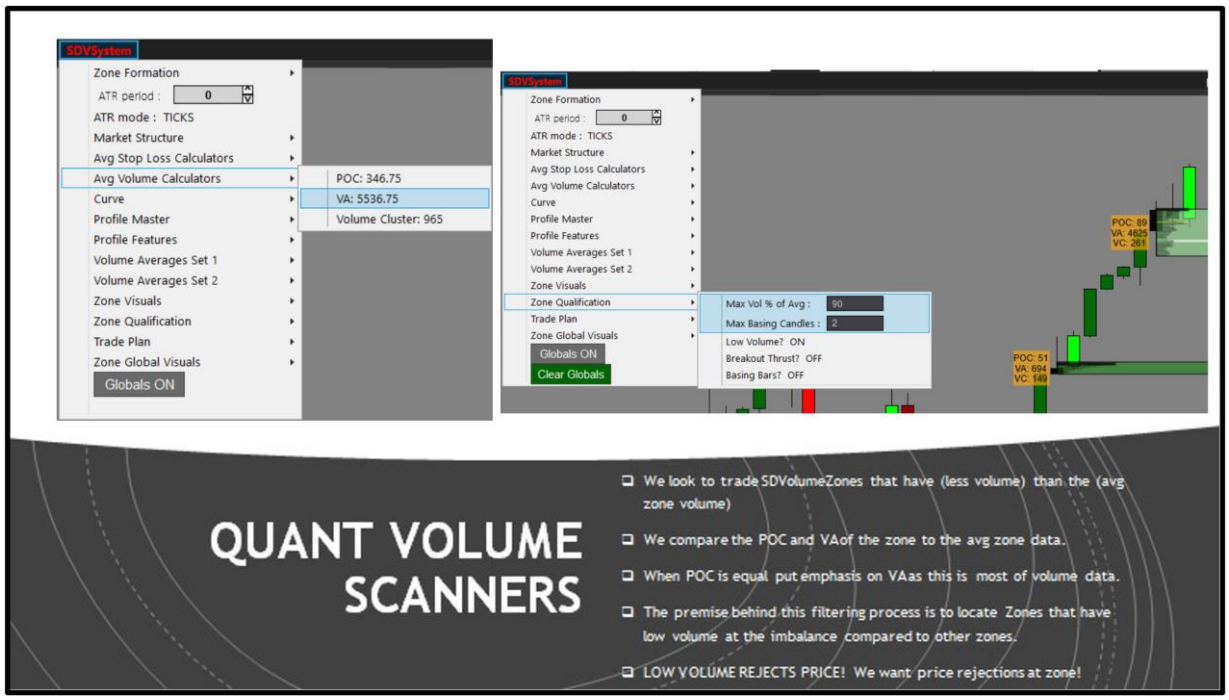
The zones themselves may partly overlap, as the stop line of a zone may lie within the bounds of another zone. This is particularly important as new zones are not formed unless orderflow supply and demand is supported by new value represented by VWTPO.

PLEASE NOTE:

The SDVSystem now uses the option to calculate zone profile using either (Tick), (Minute) or (Second) volume. When using tick profile, the indicator will take longer to populate and is only recommended on short lookback periods. When using a minute or second profile, the indicator will load much faster. We recommend using minute or second profile when running Backtests with Bloodhound. Also, if you are trading on tick based charts and want faster load times than using tick profiling...we recommend using seconds over minutes to populate a more accurate profile. Also, certain functions like zone delta factors and zone volume ratios are disabled when using the SDVSystem outside the tick data settings as these features require tick data not minute or second.

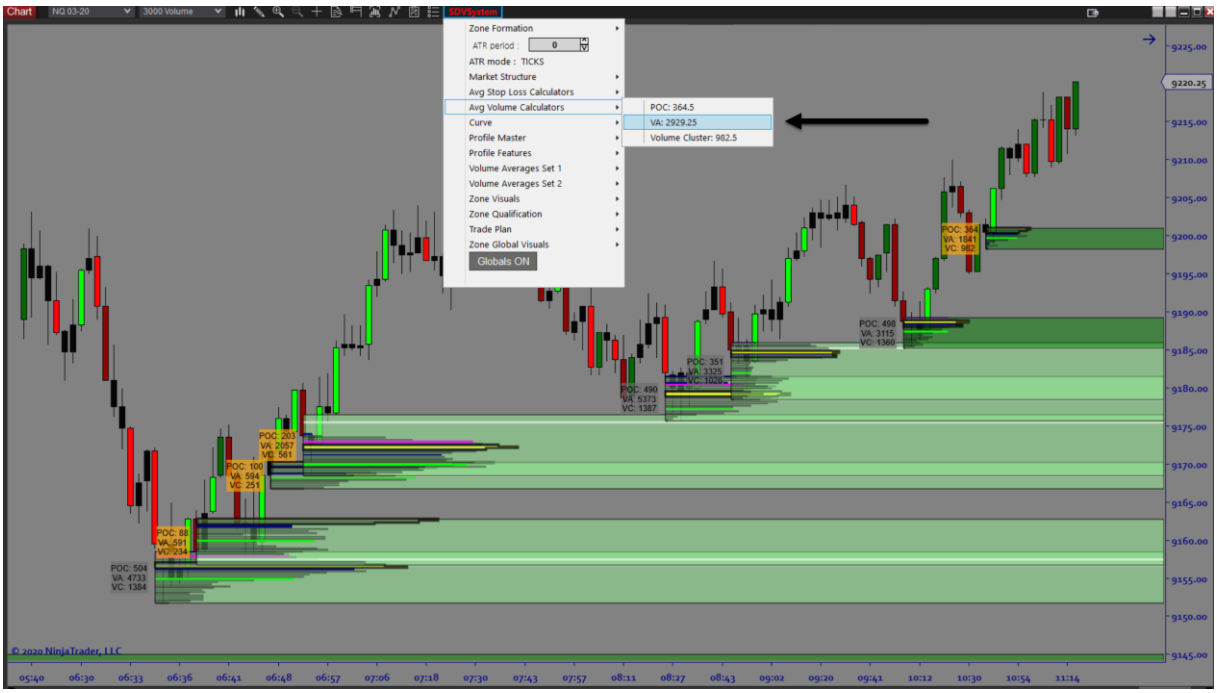
QUANT FILTERS & SDVSYSTEM EXPLAINED

The purpose of the SDVSystem Quant Filters & Zone Globalization is to filter the zone volume data, the thrust breakout bars and the imbalance price bars that create the best trading opportunities. Below we will break down the different sections.



- We look to trade SDVSystem Zones that have (less volume) than the (avg zone volume) ● We compare the POC and VA of the zone to the average zone data.
- When POC is equal, put emphasis on VA as this is most of the volume data.
- The premise behind this filtering process is to locate Zones that have low volume at the imbalance compared to other zones.
- LOW VOLUME REJECTS PRICE! We want price rejections at zones!

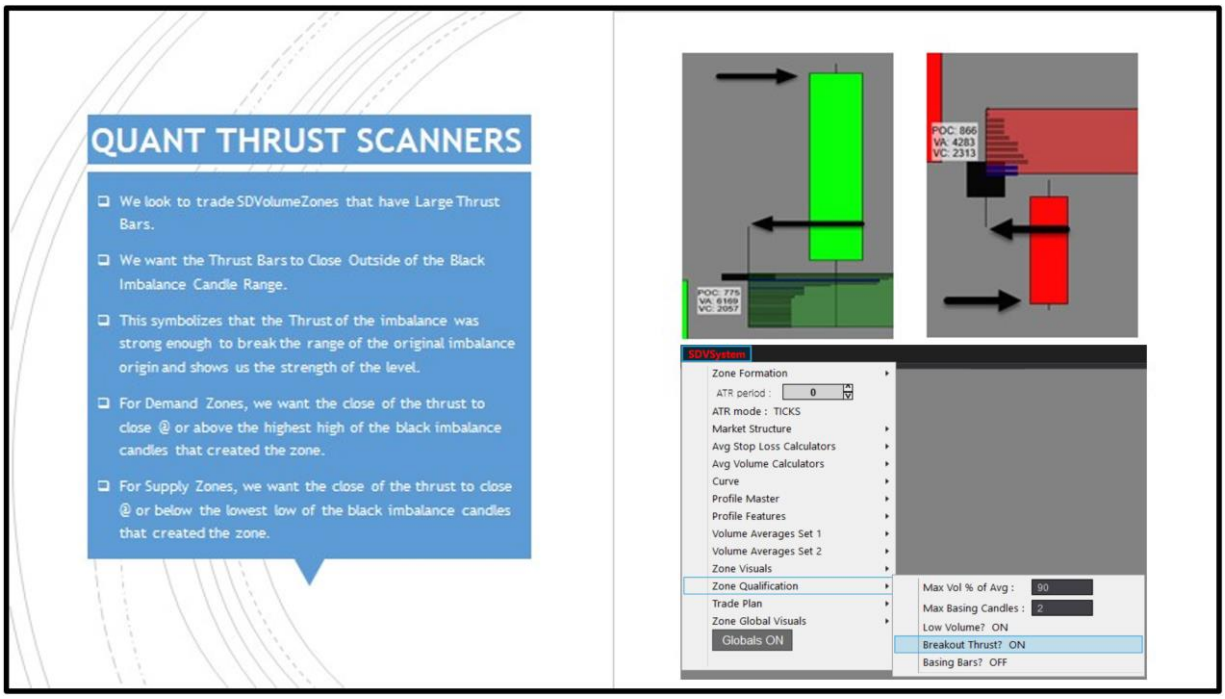
In the image below you will see the Average Zone Volume is 2929.25 for the VALUE AREAS. Since the Zone value areas make up 70% of each zone we put the emphasis on this instead of the POC or the Volume Cluster.



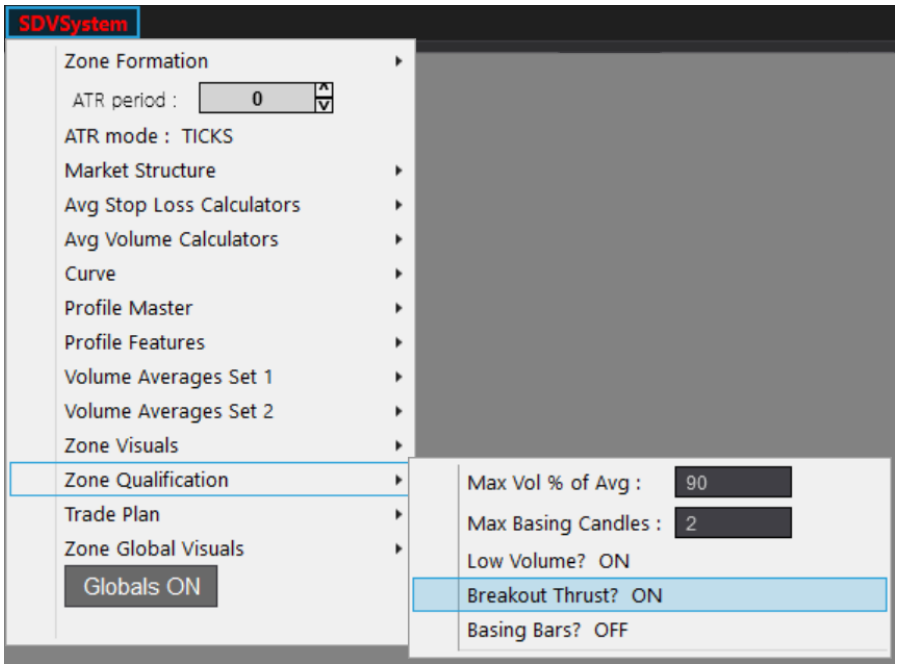
In the image below you will see the zone qualification has the MAX VOL % of AVG set to 90. This setting allows us to control the QUANT FILTER relative to the Avg Zone Volume for Value Areas.

A setting of 90 means the QUANT FILTER will find zones that are equal to or less than 90% of the average zone value areas. Since the example above is 2929.25 contracts (90% of this equals 2636.325) so any zone that has a VALUE AREA LESS THAN 2636.325 will highlight as a LOW VOLUME QUANT ZONE.

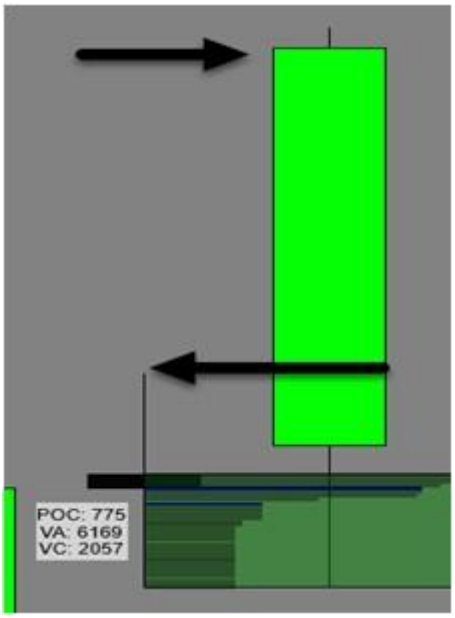
QUANT THRUST BAR SCANNER



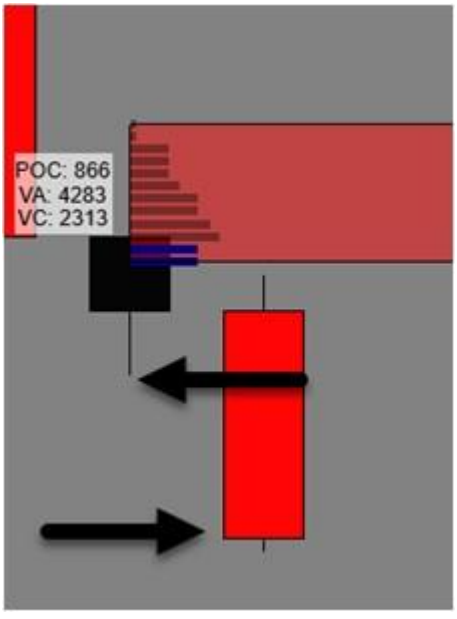
- We look to trade SDVSystem Zones that have Large Thrust Bars.
- We want the Thrust Bars to Close Outside of the Black Imbalance Candle Range.
- This symbolizes that the Thrust of the imbalance was strong enough to break the range of the original imbalance origin and shows us the strength of the level.
- For Demand Zones, we want the close of the thrust to close @ or above the highest high of the black imbalance candles that created the zone.
- For Supply Zones, we want the close of the thrust to close @ or below the lowest low of the black imbalance candles that created the zone.



Valid Demand Thrust

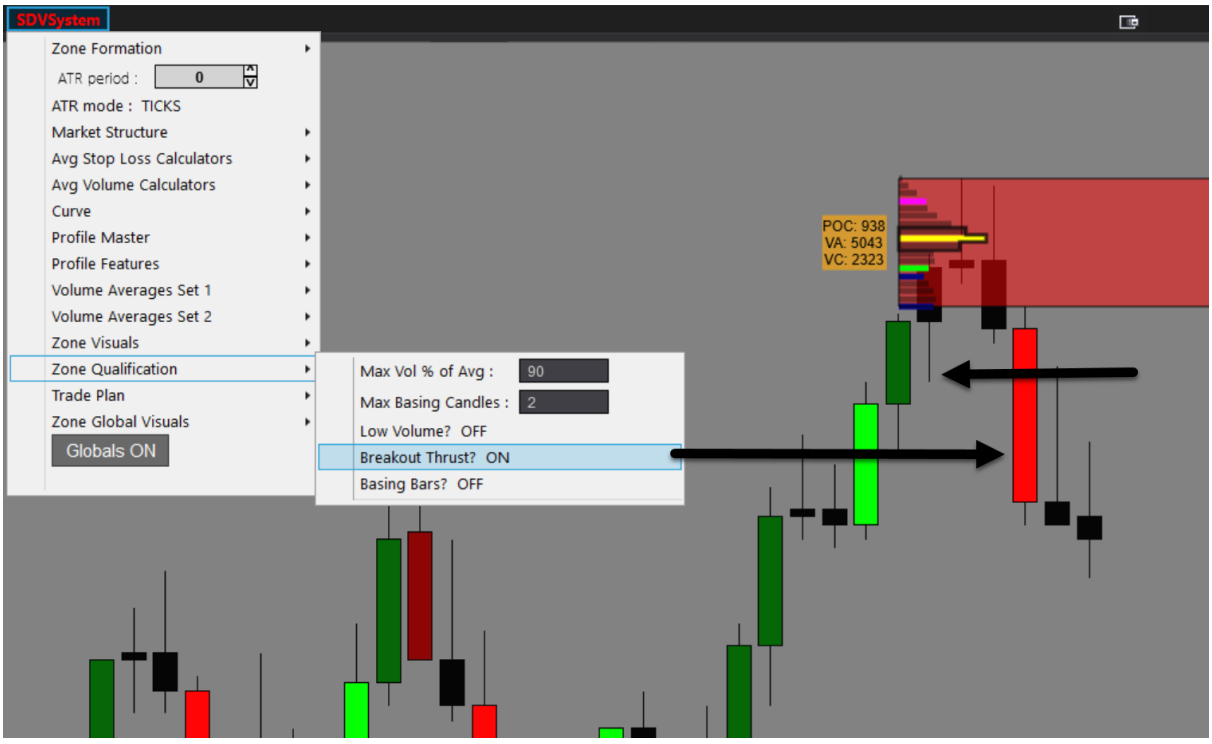


Valid Supply Thrust

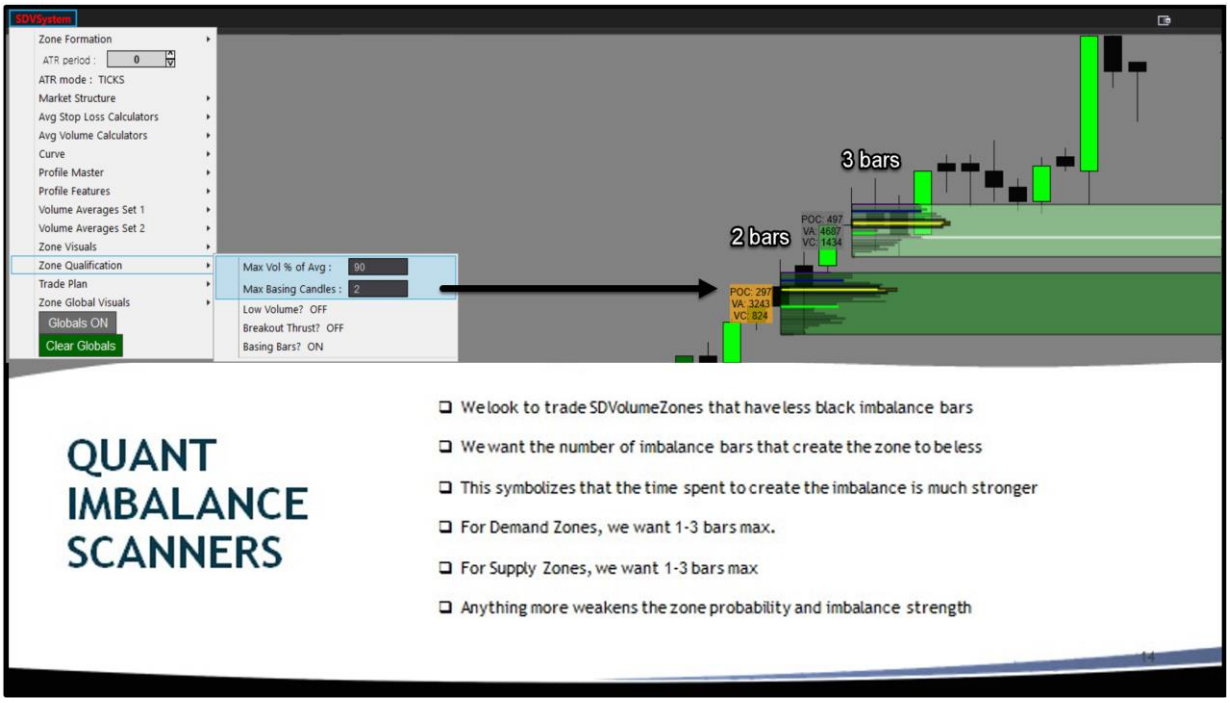


The image below shows this is a Demand Zone that passes the QUANT THRUST BAR FILTER.

The image below shows this is a Supply Zone that passes the QUANT THRUST BAR FILTER.

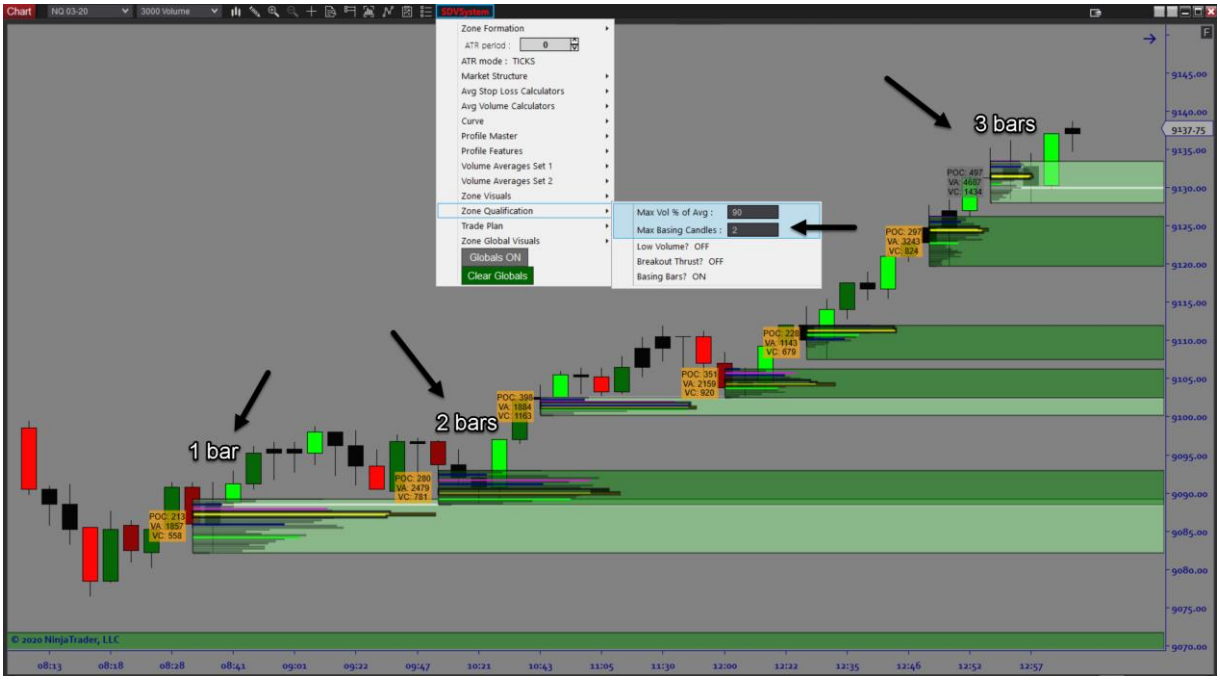


QUANT IMBALANCE SCANNER



- We look to trade SDVolumeZones that have less black imbalance bars
- We want the number of imbalance bars that create the zone to be less
- This symbolizes that the time spent to create the imbalance is much stronger
- For Demand Zones, we want 1-3 bars max
- For Supply Zones, we want 1-3 bars max
- Anything more weakens the zone probability and imbalance strength

The main setting control for the Basing Candle Imbalance Filter is to control how many bars MAXIMUM we want to create the imbalance. In the image below we have this set to 2, which means we will only produce Supply or Demand Zones that are created from 2 basing bars or less.



SDVSYSTEM QUANT FILTER CONCLUSION.

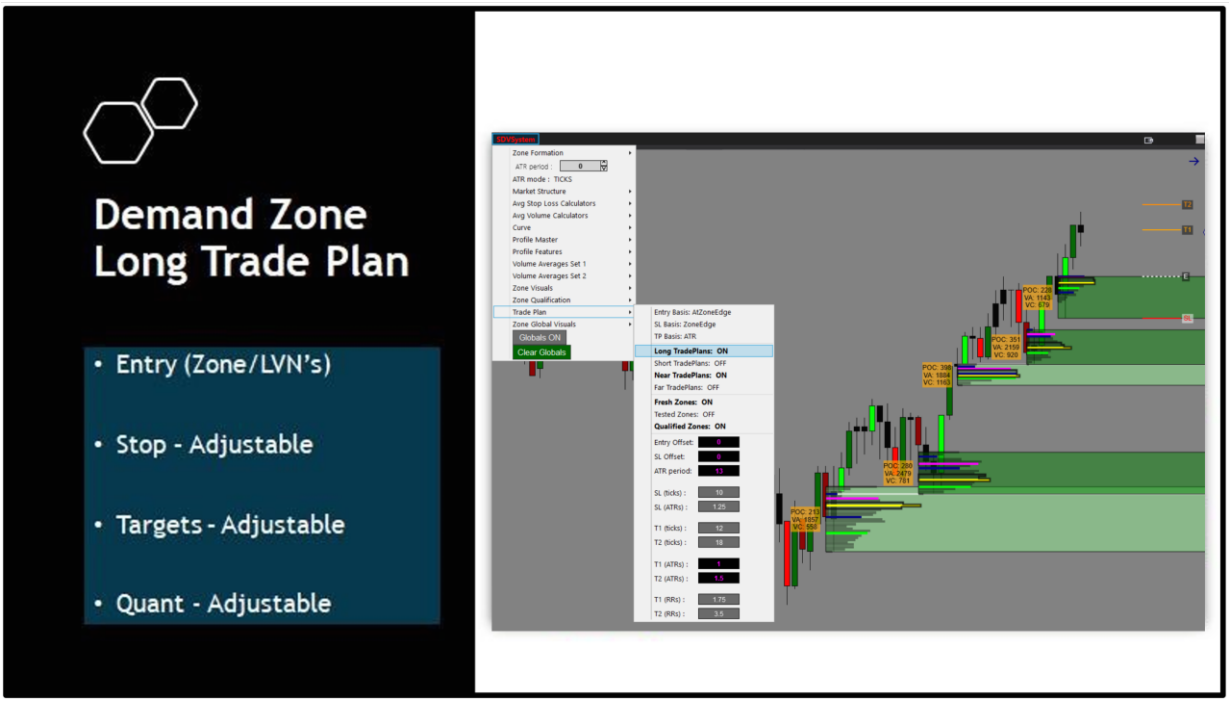
We only want to trade the highest probability zones that are filtered by Zone Volume, Thrust Strength and Minimum Imbalance Bars. You can see the reactions of these zones on the following GOLD FUTURES chart. It's Quite Impressive!

SDVSYSTEM TRADE PLAN COMPONENT

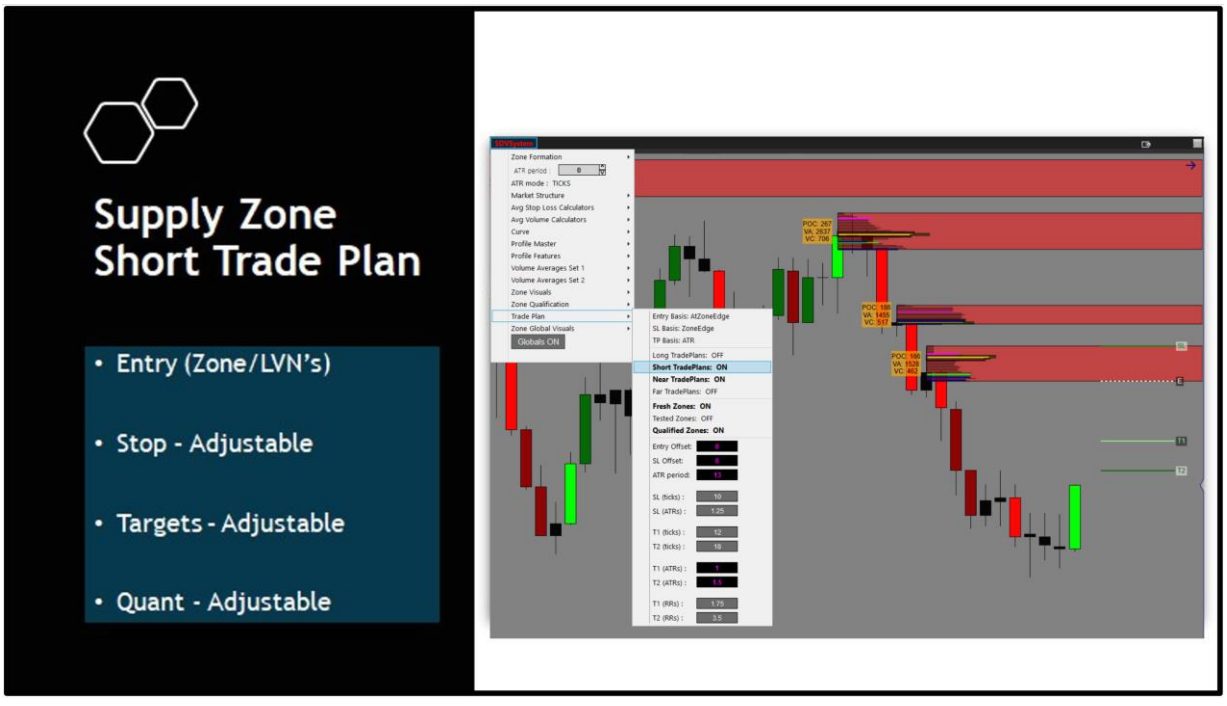
- **Semi-Automated Supply/Demand & Volume Profile System**
- **Entry – Trade Locations Built from Zones & LVNs**
- **Stops/Targets – All Trade Plans Are Customizable**
- **Zone Qualifier (Pre-Built QUANT SCANNERS)**
- **Demand Volume Zones**
- **Supply Volume Zones**
- **Quant Volume/Quant Thrust/Quant Imbalances**

All you do is decide your risk and execute trades…EASY & SIMPLE!

DEMAND ZONE TRADE PLAN

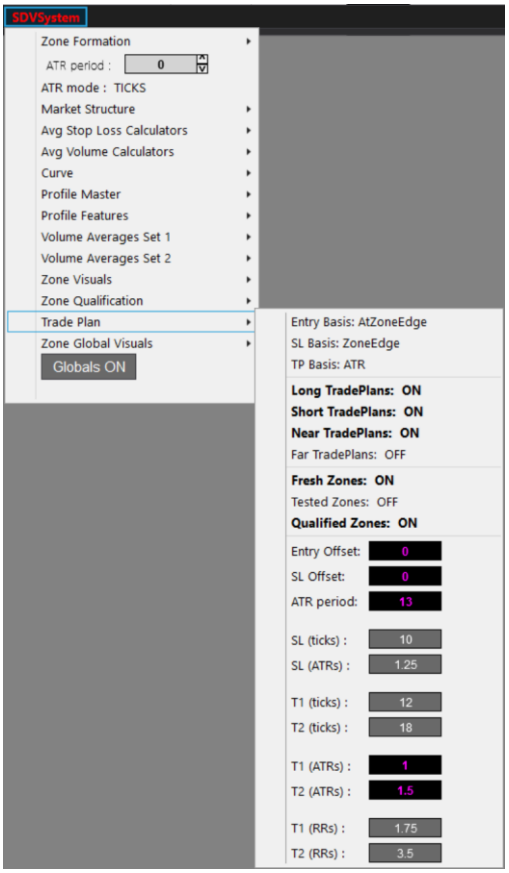


SUPPLY ZONE TRADE PLAN



TRADE PLAN CRITERIA/SETTINGS/OPTIONS

The following section will explain each of the SDVSystem Trade Plan Options. You can also find these details in the above parameters section at the top of this manual.



Any examples may show a demand zone or a supply zone. They are treated equally in terms of the demonstration of each setting.

Entry Basis - This controls the plans entry location

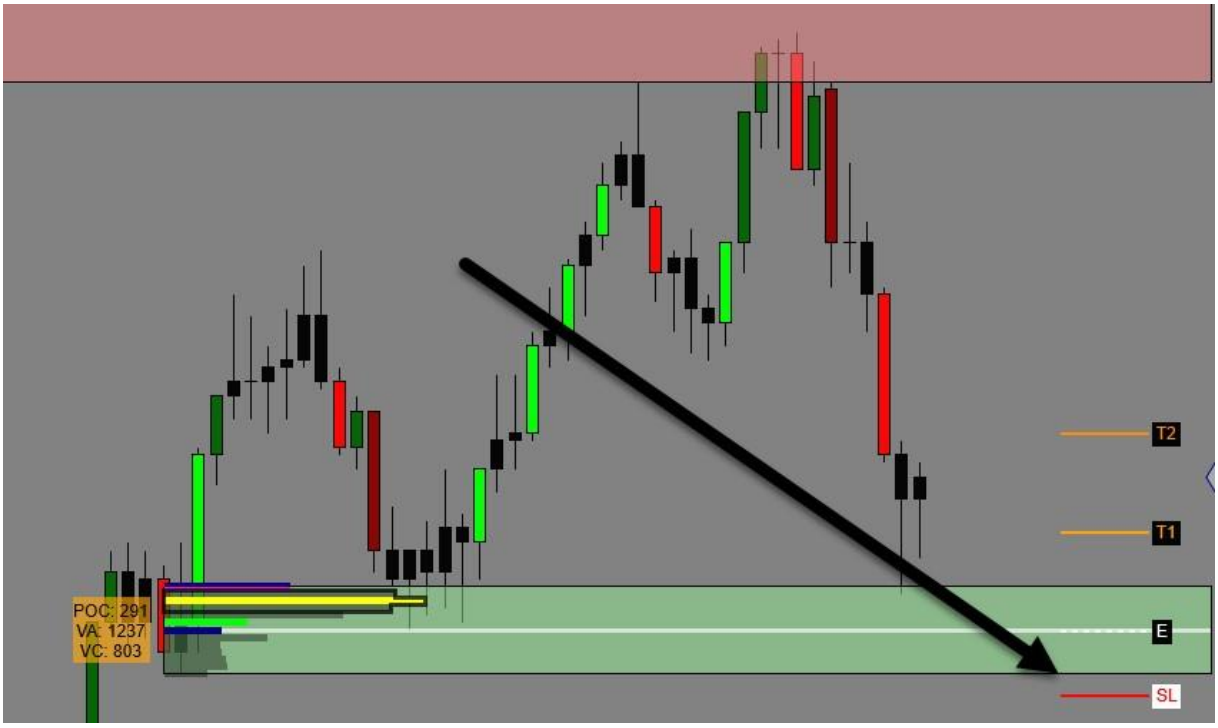
- Zone edge = entry is at the edge of demand or supply (please note you can adjust the offset in the settings as well)

- Near LVN = entry is at the nearest LVN in the zone

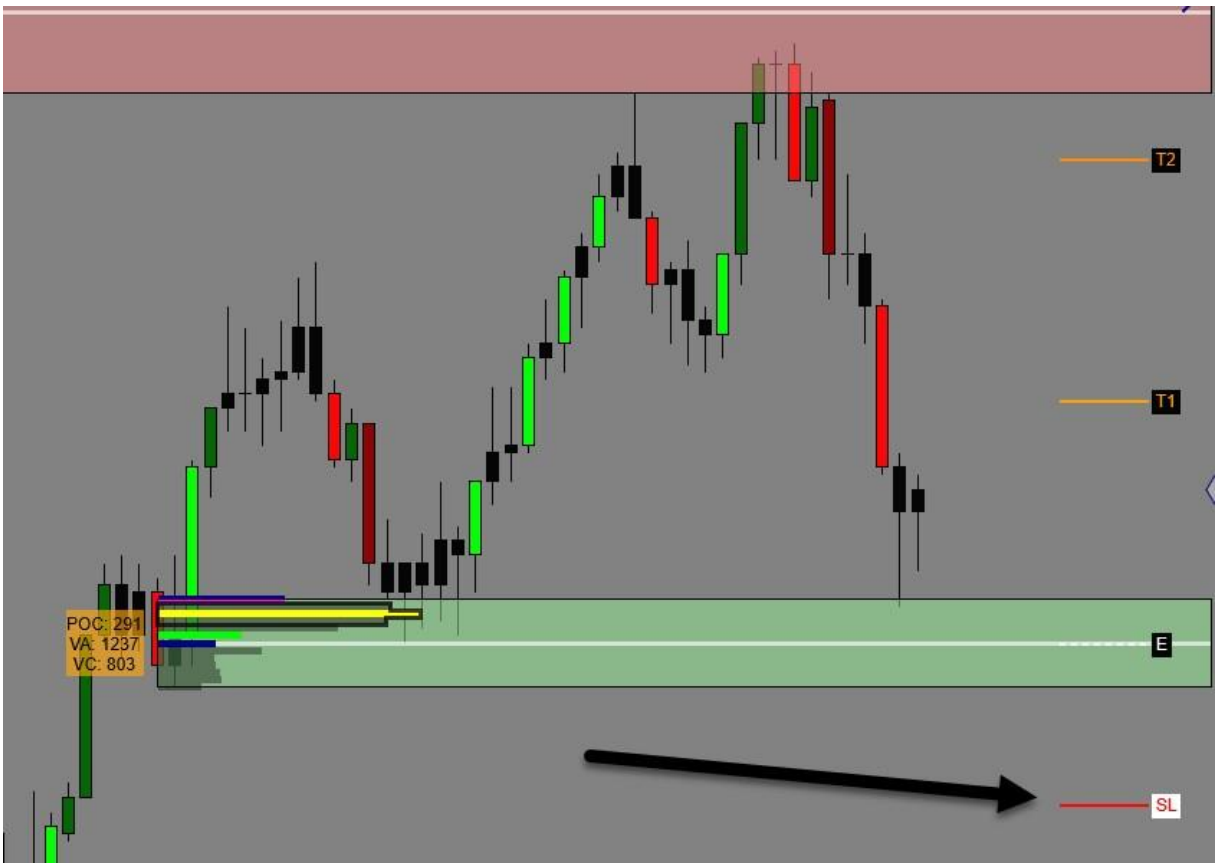
- Far LVN = entry is at the farthest LVN in the zone

SL (Stop Loss) Basis - This controls the plans stop loss location

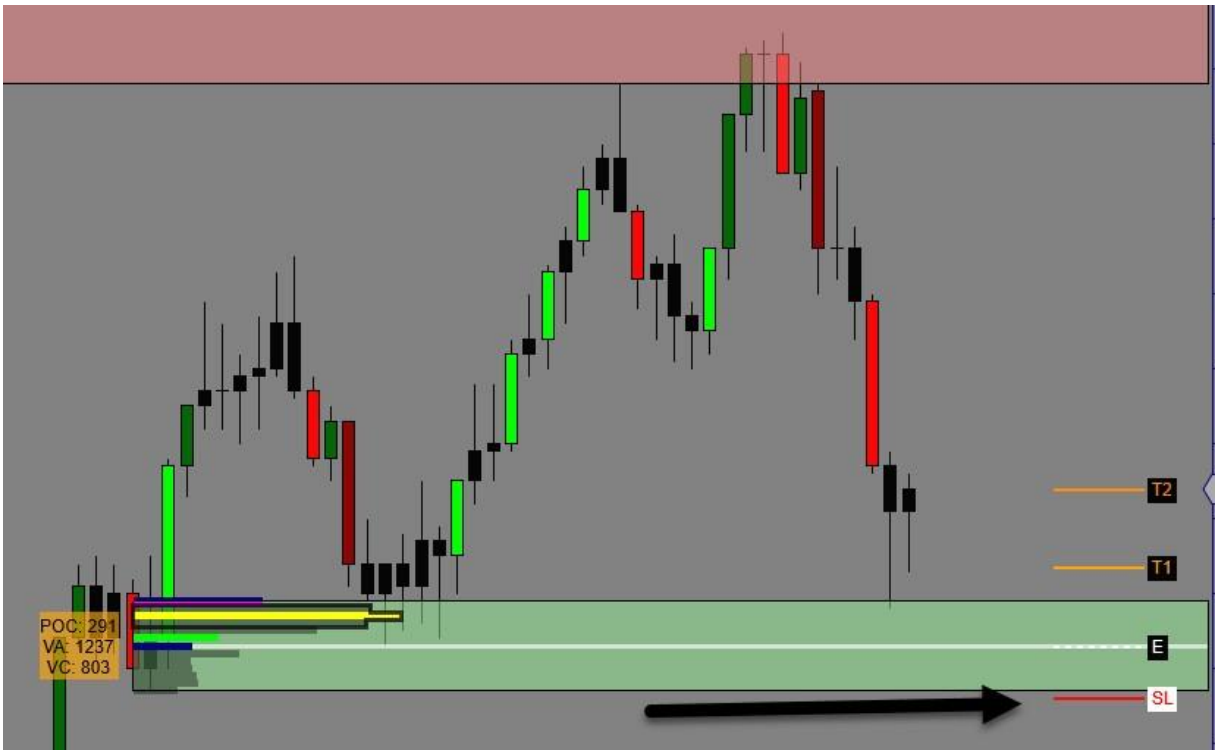
- Zone edge = stop is at the edge of demand or supply (please note you can adjust the offset in the settings as well)



- ATR (Average True Range) = stop is at the distance of the ATR from the Entry Location not the zone edge. (please note you can adjust the ATR in the settings as well)

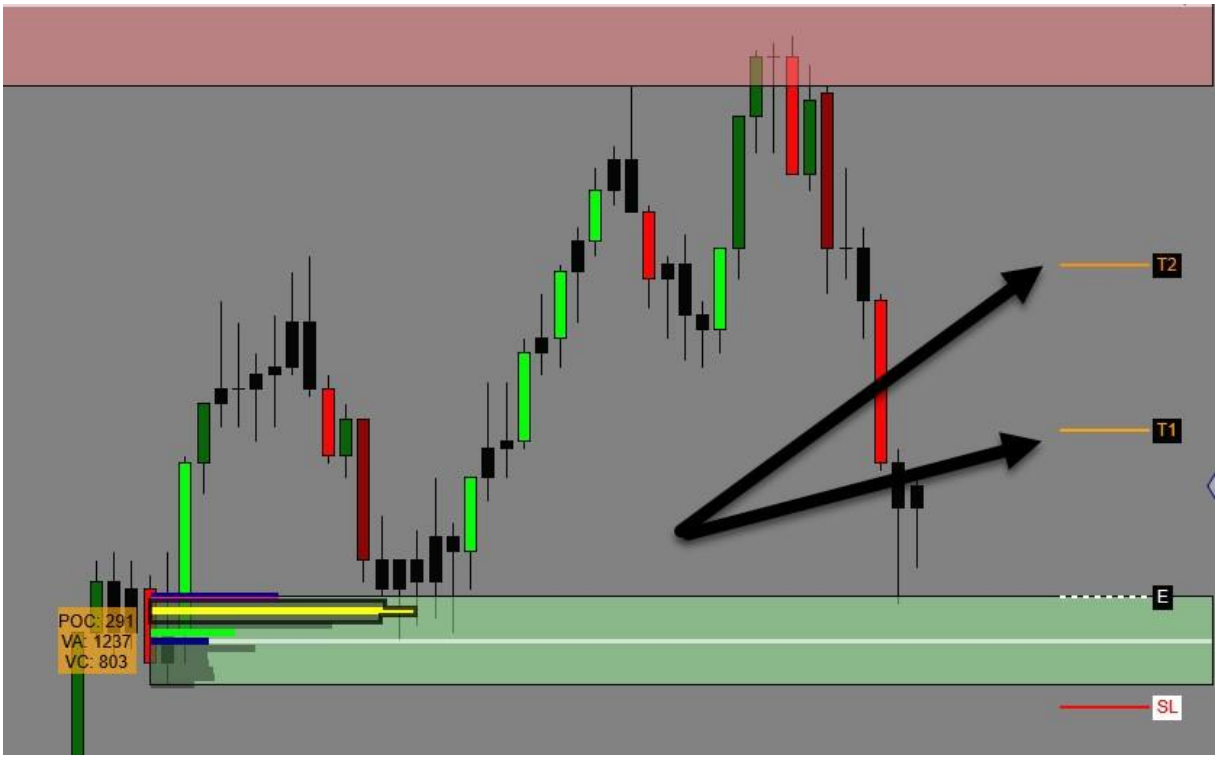


- TICKS = stop is at the distance in ticks from the Entry Location not the zone edge. (please note you can adjust the number of ticks in the settings as well)



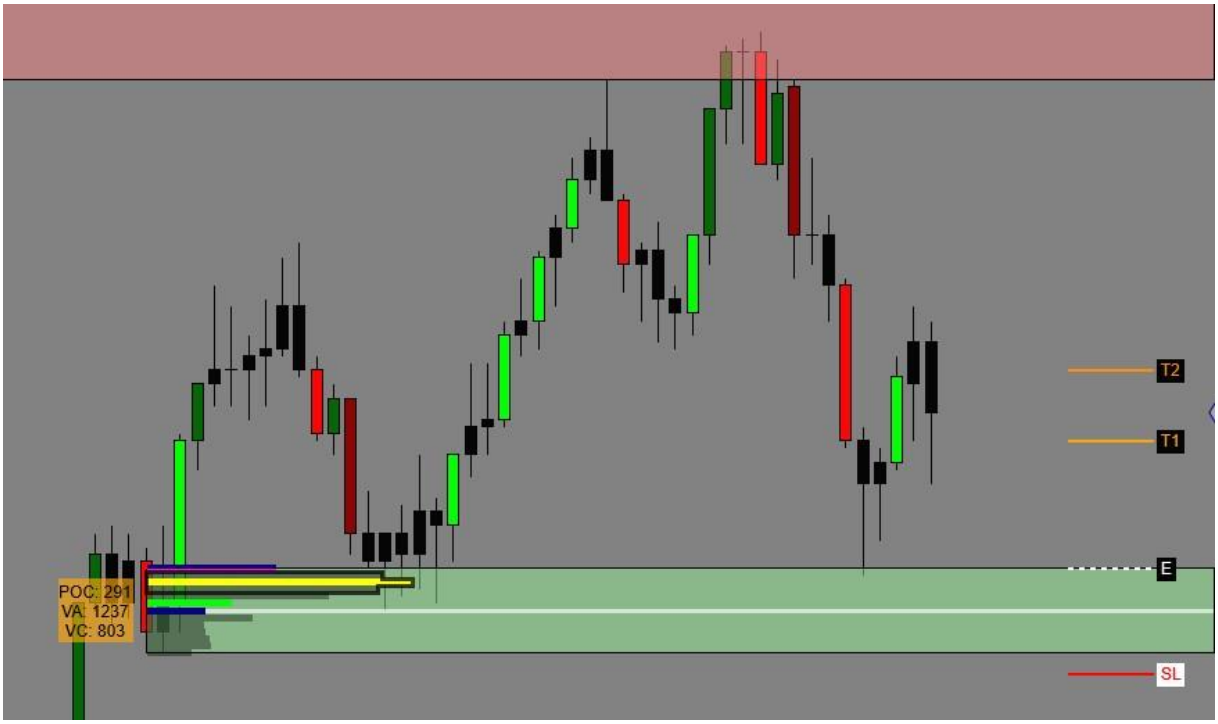
TP (Take Profit) Basis - This controls the plans target locations

- RR (Risk Reward Ratio) = target is the distance relative to the size of risk vs the size of the target in a risk/reward ratio from the Entry Location not the zone edge. (please note you can adjust the RR number in the settings as well)

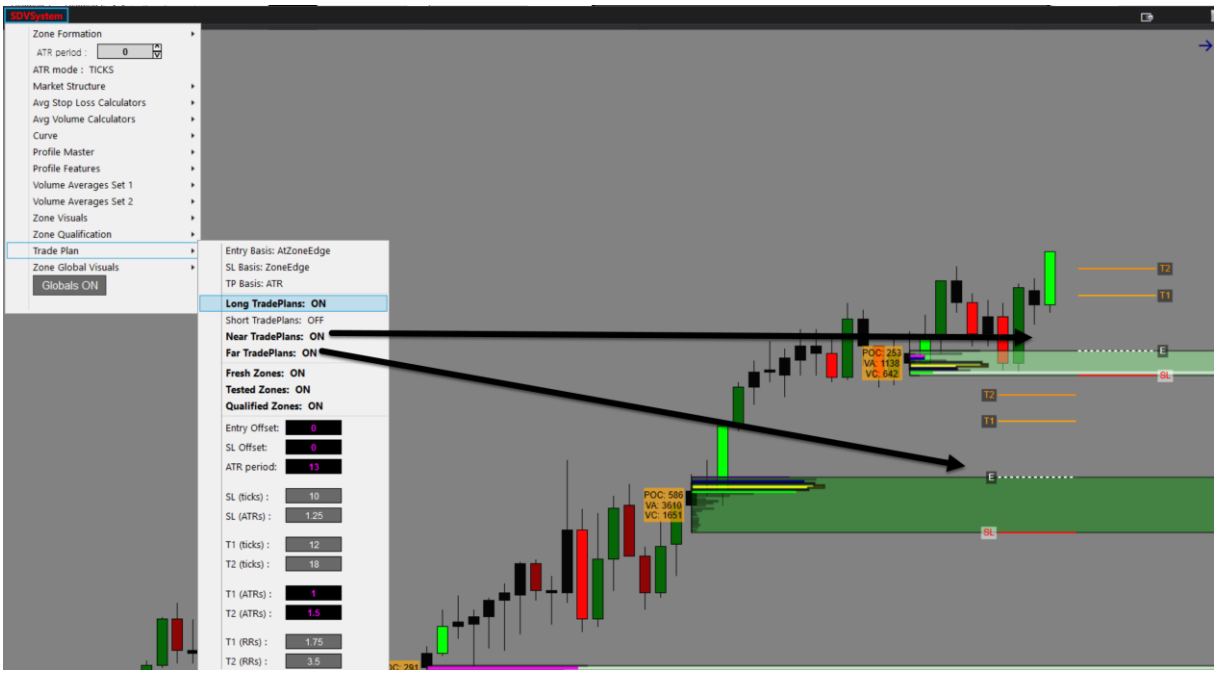


- TICKS = targets are the distance in ticks from the Entry Location not the zone edge. (please note you can adjust the number of ticks in the settings as well)

- ATR (Average True Range) = targets are the ATR from the Entry Location not the zone edge. (please note you can adjust the ATR in the settings as well)

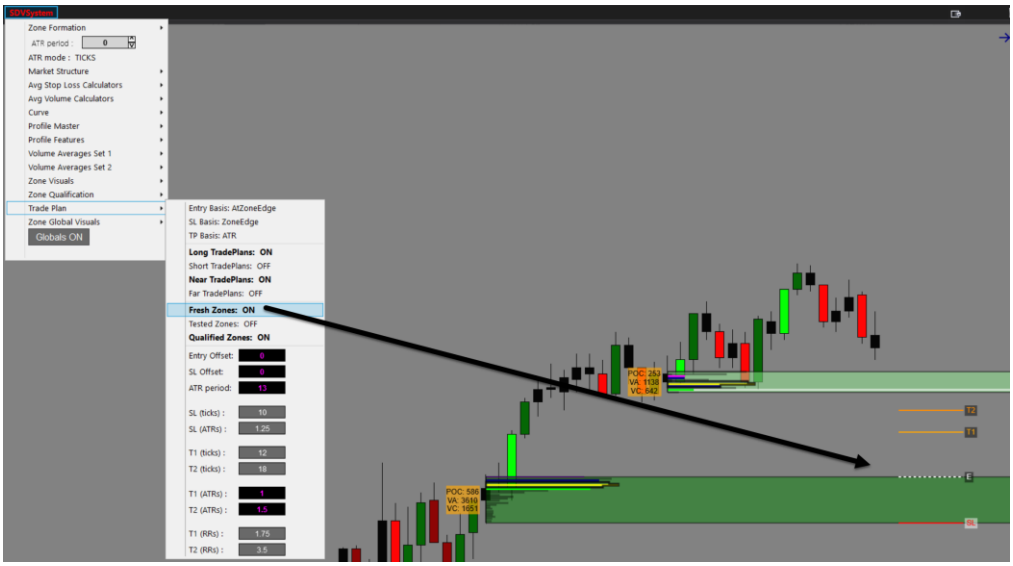


The next section looks at turning on/off the NEAREST PLAN or the FARTHEST PLAN. You can have one or both on at any given time. In the following example we show both demand zone plans on. You can turn short plans on as well.

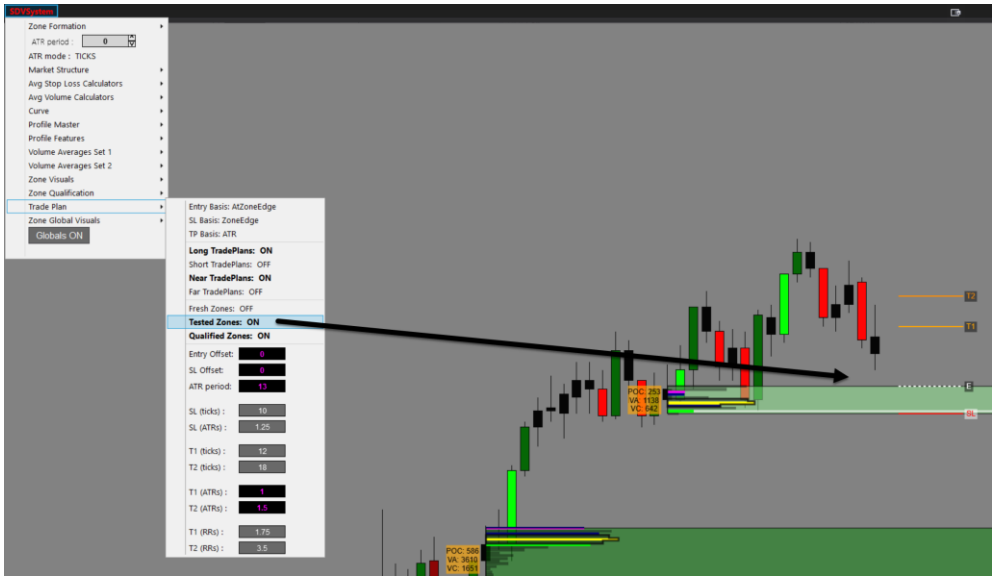


The following section looks at plans for tested or fresh zones. Tested zones are zones that price has already traded into at least once and has not violated the zone. A fresh plan is a plan on a zone that is completely fresh, and the price has not touched it yet.

FRESH PLAN

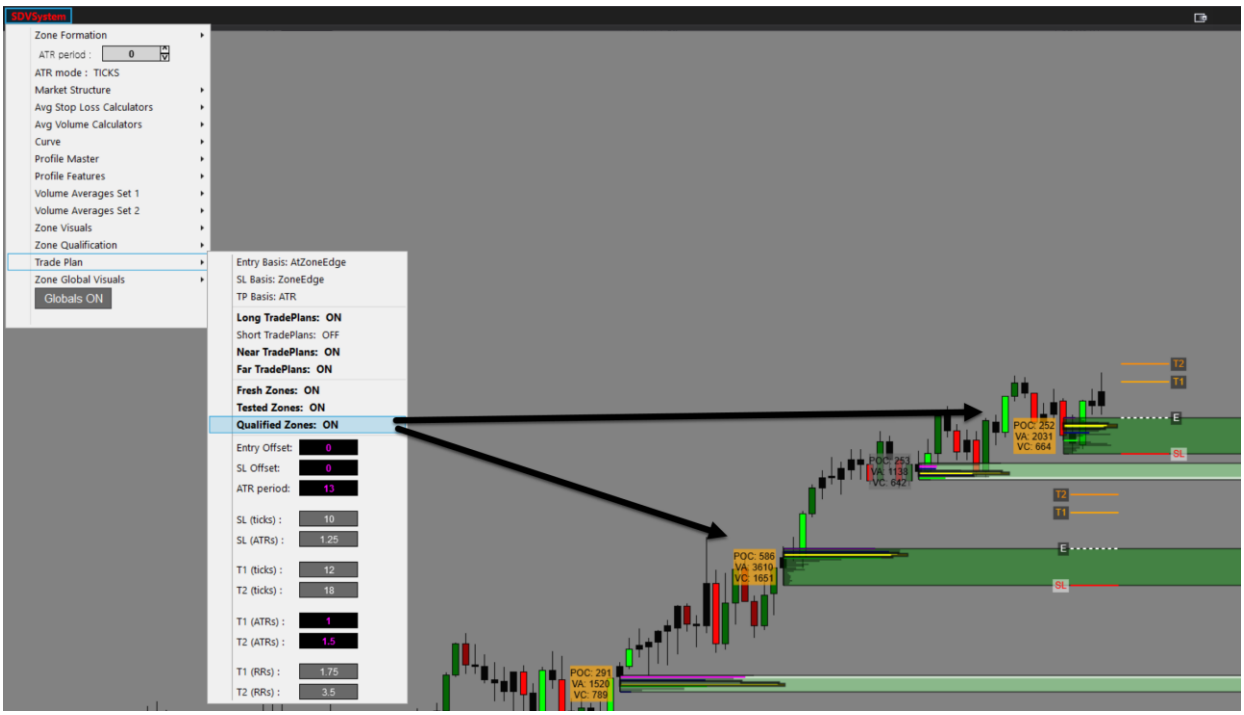


TESTED PLAN



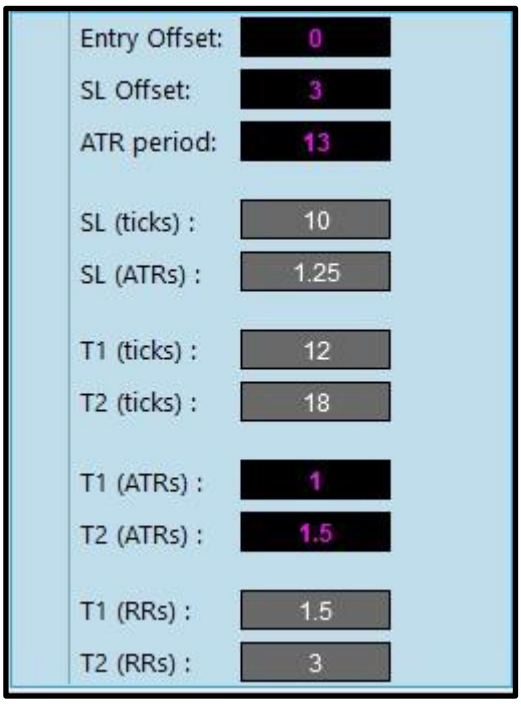
QUALIFIED ZONES

This only allows trade plans to be applied to tested or fresh QUALIFIED ZONES as per the settings in the QUALIFIED ZONES SECTION. You will see the below image did not apply the trade plan to the other zones.



SYSTEM SETTINGS

- The following section is the control settings for offsets, ticks, atrs, RR's as it pertains to both stops and targets.



- Entry Offset = the distance in ticks the entry Line will appear from the entry basis location
- SL Offset = the distance in tick the stop line will appear from the stop basis location
- ATR Period = the ATR period used for calculating the stop and target distances relative to ATR.

- SL (Ticks) = the distance of ticks to apply to the stop loss ● SL (ATR's) = the ATR period for the stop loss

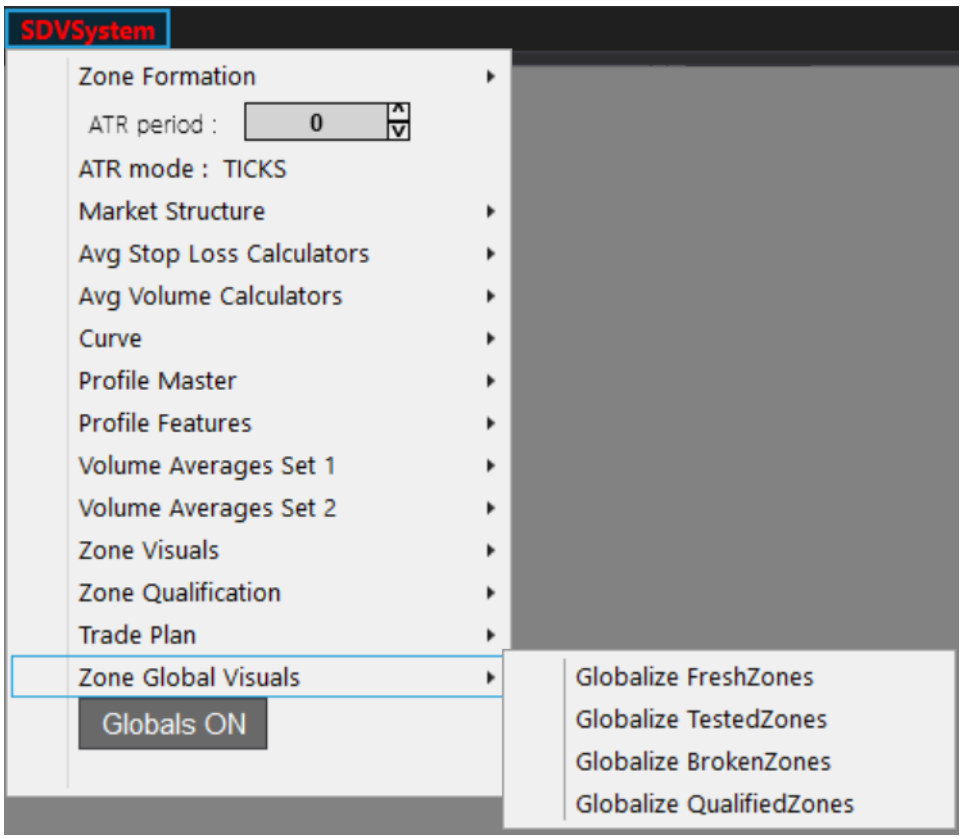
- T1 (Ticks) = the distance in ticks to apply to Target 1
- T2 (Ticks) = the distance in ticks to apply to Target 2

- T1 (ATR) = the ATR Period to apply to Target 1
- T2 (ATR) = the ATR Period to apply to Target 2

- T1 (RR) = the Risk Reward Ratio to apply to Target 1
- T2 (RR) = the Risk Reward Ratio apply to Target 2

Zone Global Visuals

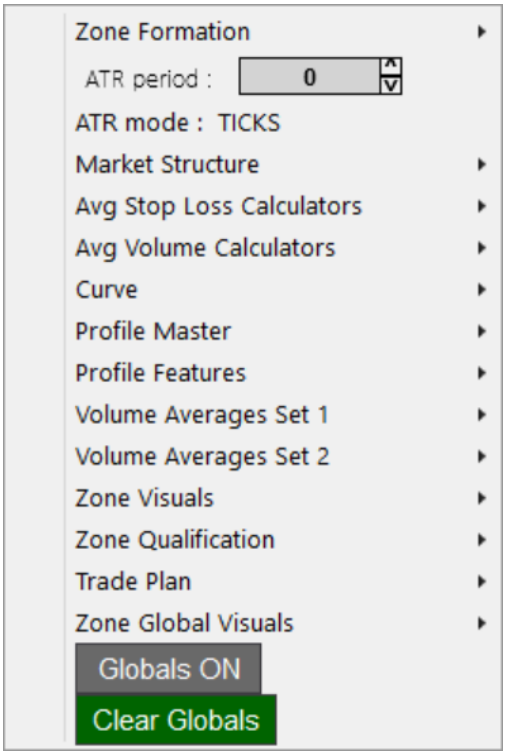
This section controls the ability to globalize supply/demand zones across multiple charts. It makes it easy for us to find good trading levels and transfer them to other charts.



- **GLOBALS ON/OFF** = master control button to turn the globals on/off
- **Globalize Fresh Zones** = transfers fresh zones to other charts
- **Globalize Tested Zones** = transfers tested zones to other charts
- **Globalize Broken Zones** = transfers broken zones to other charts
- **Globalize Qualified Zones** = transfers qualified zones to other charts

The following example is FRESH ZONES GLOBALISED for the GC 3000 Volume Chart. You can do this for the other types of zones listed above as well.

You can remove all globalized zones by selected to CLEAR GLOBALS



ARC-AI thanks you for your business and use of the SDVSystem software.
Should you need assistance or support please email support@architectsai.com.