

**DISCOTRADING**

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All Products NinjaTrader 7 Add-ons NinjaTrader 8 Add-ons Free Tools Utilities ENHANCED BY Google

**2. Periodic Profiles**

Periodic Profiles	Periodic Profiles: Sessional
Enable	True
Show	True
Periodicity	Sessional
Mode	Volume Profile
Comparative Widths	False
Max Width, px	250
Show POC Level	True
Show VA Levels	True
Show Naked POC Level	True
Show Naked VA Levels	True
Show Labels	True
Plot Developing POC	False
Plot Developing VA	False
Plot VWAP	False
Plot VWAP SD Bounds	False
Show Delta Bars	False
Show Numbers	True
Show Info	True
Horizontal Alignment	Left
Current Profile Alignment	Left
Shortcut keys	Expand to access all hot keys
Increase Scale	Ctrl+Add
Decrease Scale	Ctrl+Subtract
Reset Scale	Ctrl+Multiply
Toggle Comparative Width	Back
Toggle Labels Visibility	Alt+L

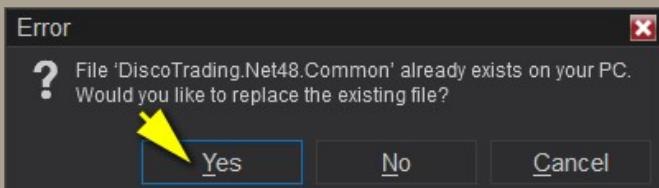
Total Volume: 1139305; Above/below VPOC: 751558 / 359677  
 Volume Delta: -13856  
 Total Ticks: 383202; Above/below TPOC: 271873 / 102436  
 Tick Delta: -6181  
 Average Trade Size: 2.938

**How to install or update Range Volume Profile NT8**

It is recommended to use the standard way to install or remove the add-ons in NinjaTrader.

The most recent version of the add-on is always available to download from this page or from the [homepage](#).

1. Download the latest assembly (*DtRangeVolumeProfile.zip* file) from this description page or from the [homepage](#).
2. Run NinjaTrader 8.
3. Go to 'Tools' → 'Import' → 'NinjaScript Add-On...', select the downloaded .zip file and press 'Open'.
4. Click '**Yes**' if asked for replacement of the existing "DiscoTrading.Net48.Common.dll" and/or "DtRangeVolumeProfile" assemblies:



5. Restart NinjaTrader 8! It is **required step** to properly finish the installation!

**Note:** Various Dt add-ons are relying on the same "DiscoTrading.Net48.Common.dll" library. The most recent build contains the latest version of the library, so you have to click 'Yes' when asked for replacement of the file during installation.

## Download Range Volume Profile NT8 Handbook

### Multiple Profiles By One Tool

#### Features

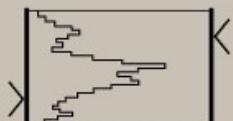
**Range Volume Profile (RVP)** is a fairly universal profiling tool for NinjaTrader which can be used to plot both classic Daily (sessional, weekly, etc) volume profiles and adjustable profiles of custom time range. It is also able to plot Composite profile with displaying of High and Low Volume Nodes.

The basic diagram below shows functional structure with the main capabilities of the add-on.

*general  
modes:*

**Volume-based**  
**Tick-based**  
**Average Trade Size**

### Custom Range Profiles



### Periodic Profiles

Sessional,  
Daily,  
Weekly,  
etc.



### Composite Profile



*general  
abilities:*

#### **Value Area Levels**

Current: POC, VAH, VAL

Developing: dPOC, dVAH, dVAL

Naked: NPOC, NVAH, NVAL

#### **VWAP with Standard Deviation Bounds**

**Value Area Levels**  
POC, VAH, VAL

**High/Low Volume  
Nodes** HVN, LVN

#### **Summary Info:**

Totals: *Volume*, *Ticks\**, *Deltas\**,

*Average Trade Size\**,

*Price Range* in points and ticks

\* — these metrics have different meanings  
in different Data Source modes (Tick database, Minute)

### Histogram Δ-bars

#### **Numeric values:**

Volume at Price,

Ticks at Price,

ATS at Price

- Three types of profiles by underlying metric:

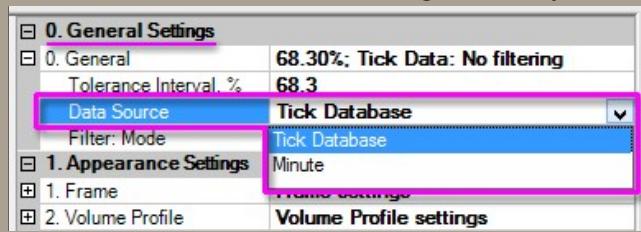
- Volume-based (Volume at Price)
- Tick-based (Trades Qty at Price)
- Average Trade Size histogram

(\*The usage of Tick Profiles and ATS Histograms makes sense only when the selected Data Source is 'Tick Database'.)

- Three kinds of profiles by type of time period:
  - Adjustable **Custom Range Profiles**
  - Classic **Periodic Profiles** (Sessional, Daily, Weekly, etc.)
  - **Composite Profile**
- In RVP you can choose between two **Data Source** options: *'Tick database* and *'Minute* data. Use '*'Tick database*' data for highest accuracy and '*'Minute*' data for faster start-up. The use of '*'Minute*' data source is particularly useful when working with **long-term charts**.
- Volume (or Tick) **Delta histogram bars ( $\Delta$ -bars)** can be plotted along with Volume (Tick) Profiles. Delta bars are calculated based on the '*Up Tick versus Down Tick*' rule (if Data Source = '*'Tick Database*').  
Remember!  $\Delta$ -bars have different meanings in different Data Source modes:  
Obviously, the delta calculations by the '*Up Tick vs Down Tick*' technique is impossible when the chosen data source is '*'Minute*' data. So, in this case the volume of Up (bullish) 1-minute bars will be considered as positive and the volume of Down (bearish) 1-minute bars will be considered as negative in delta calculations.
- **Developing** and **Naked Value Area Levels** can be plotted for both Periodic and Custom Range Profiles.
- **VWAP** with **Standard Deviation Bounds** can be plotted along with both Periodic and Custom Range Profiles.
- **High/Low Volume Nodes** (or **High/Low Tick Nodes** for Tick Profile) can be plotted along with Composite Profile.
- Custom Range Profiles are adjustable: the boundaries and many other settings are easily adjustable by mouse.
- Draw as many adjustable Custom Range Profiles on a chart as you wish.
- Locations and other settings of plotted Custom Range Profiles are savable (as indicator Default settings, with Chart Template or Workspace).
- **Volume Filtering:** RVP is able to plot volume profiles based on ticks filtered by Trade Size.  
Filtering modes available: '*Greater Than Or Equal*', '*Less Than Or Equal*' and '*In Between*'. Filtering works only when Data Source = '*'Tick Database*'.
- RVP is able to cache real-time incoming tick data to disk. The caching system is user-transparent. This makes RVP much more usable during trading hours (you no more need to use Ninja's "Reload All Historical Data" function).

### Important note!

In the "**Data Source = Tick Database**" mode Range Volume Profile works directly with NinjaTrader's historical tick database to ensure high accuracy flavoured with high performance.



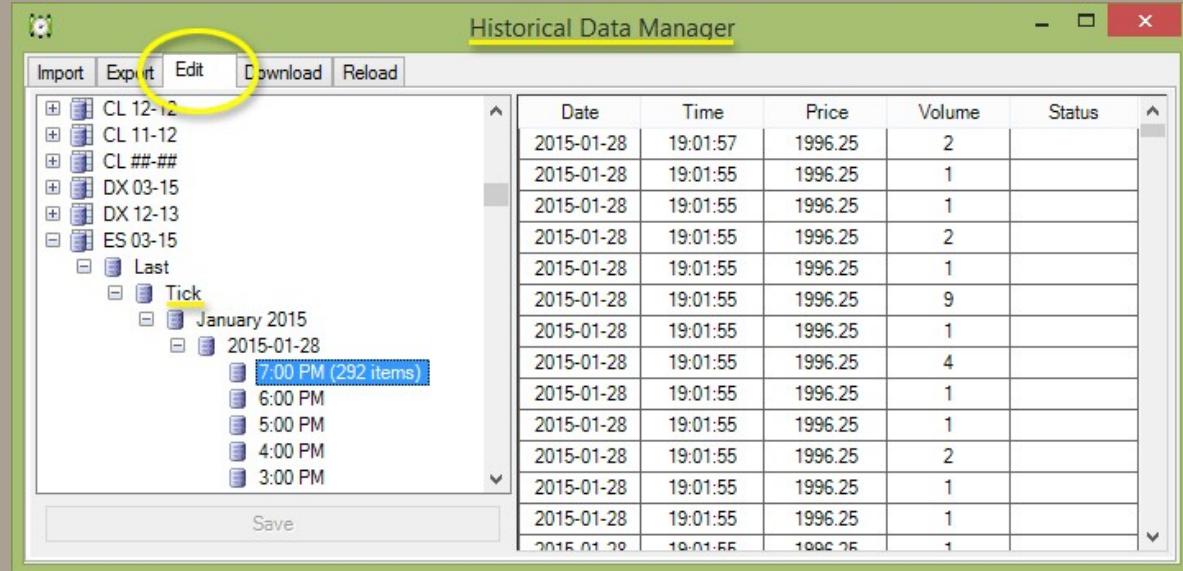
Hence, it is essential that the historical tick data is loaded for your instrument. Fortunately, in the most cases NinjaTrader automatically will load and save tick data, especially when you use such Period Types

as Tick, Range or Renko. Just because NinjaTrader itself requires data with tick-granularity to plot bars or candles of such kinds.

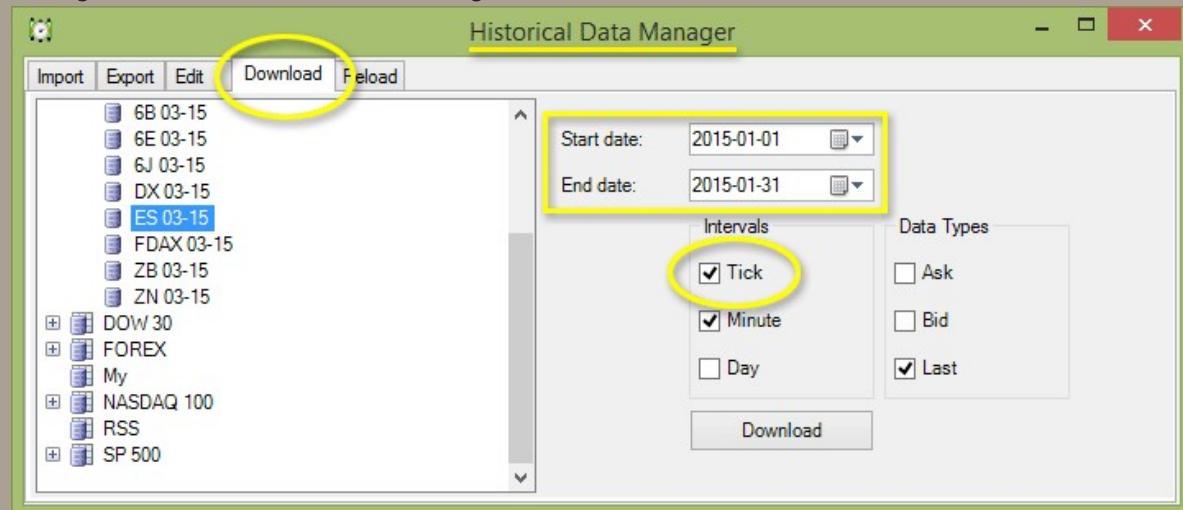
However if you prefer to use Minute-based charts solely you can face the fact that NinjaTrader is too lazy to load tick data in its database, instead it will load data with 1-minute granularity. Just because 1-minute data is all that is needed for NinjaTrader to construct 15-minute or Hour bars, for instance.

To be sure that you have tick data for your instrument you can use the following two ways:

- 1) the easiest – just reload your chart using any of the tick-based intraday timeframes (Range or Tick Bars, for example) or,
  - 2) or use *Historical Data Manager* (*Tools* → *Historical Data Manager...* → *Edit* tab).

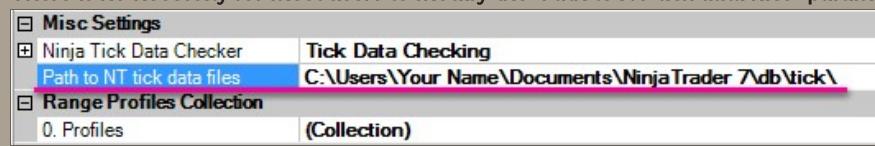


If you find an absence of tick data for a required period use 'Download' feature of the Historical Data Manager (Tools → Historical Data Manager... → Download tab).



RVP has the "Path to NT tick data files" parameter that allows users to specify alternate path to NinjaTrader's "tick" folder (by default it is something like C:\Users\YourName\Documents\NinjaTrader 7\db\tick\). This is the folder where NinjaTrader collects tick data files.

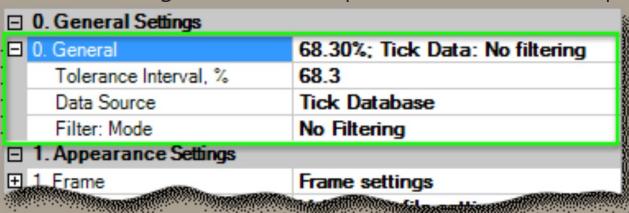
There is no necessity for most users to modify the "Path to NT tick data files" parameter.



## General Settings

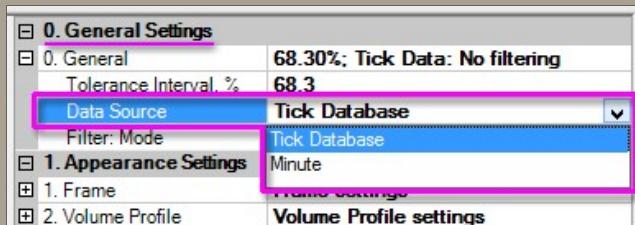
Both **General** and **Appearance** Settings groups are generic to all kinds of profiles (Custom Range, Periodic, Composite). Therefore if you wish to use different 'Tolerance Interval' or 'Filter by Size' parameters for different kinds of profiles, then you should use two instances of RVP indicator with different settings on a chart.

Click on [+] sign at the left of parameter name to expand all general settings:



- **Tolerance Interval, %.** Tolerance interval defines the *Value Area* — a price range within which the specified percentage of total volume (or total number of trades, for Tick Profiles) is distributed. The value of about 70% (which represents one standard deviation of the mean in a Normal distribution) is the mostly used one.
- **Data Source.** Sets data type to be used for building the profiles. Notice that specified data source will be used to build all kinds of profiles.

- **Tick Database** — the indicator will use the data of *tick-level granularity* obtained directly from NinjaTrader tick data files or cache files. Use '*Tick Database*' for highest accuracy.



Notice also that Range Volume Profile indicator needs some time to read and prepare tick data on start up. This loading time is imperceptible in the most cases, however when you use very large "Days to load" parameter value for your chart the time delay on start up may be noticeable.

- **Minute** — the indicator will use data of *1-minute granularity* (like 1-minute bars). The 'Minute' data source provides less accurate volume profiles but significantly reduces loading time. Therefore it is particularly useful when working with long-term charts.

#### Important notes:

The choice of data source has an effect on how the volume delta is being calculated. The use of the '*Up Tick vs Down Tick*' technique of delta calculations is impossible when the chosen data source is '*Minute*'. So, in this case a simple rule will be applied — the volume of Up (bullish) minute bars will be considered as positive and the volume of Down (bearish) minute bars will be considered as negative in delta calculations.

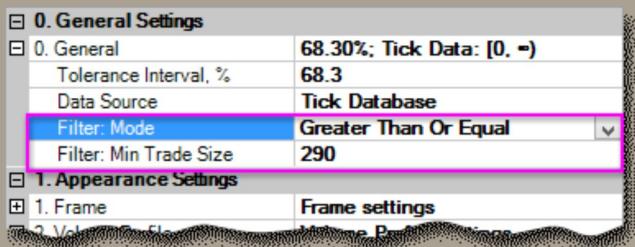
The usage of Tick Profiles and ATS Histograms makes sense only when the selected data source is '*Tick Database*'.

The filtering functionality (Filter By Trade Size) is also unavailable when the chosen Data Source is '*Minute*'.

- **Filter: Mode.** Sets the mode of filtering by Trade Size. The filtering functionality is available only when the selected data source is '*Tick Database*'.

Filter settings has an effect on all kinds of profiles. Use multiple indicator instances on one chart to use different filtering settings with different profiles.

- *No Filtering*
- *Greater Than Or Equal*
- *Less Than Or Equal*



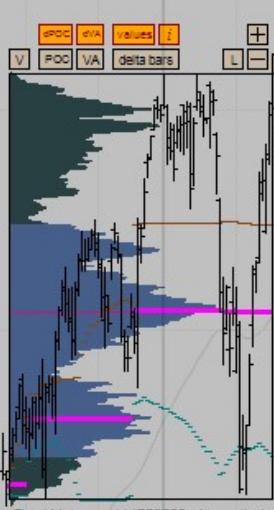
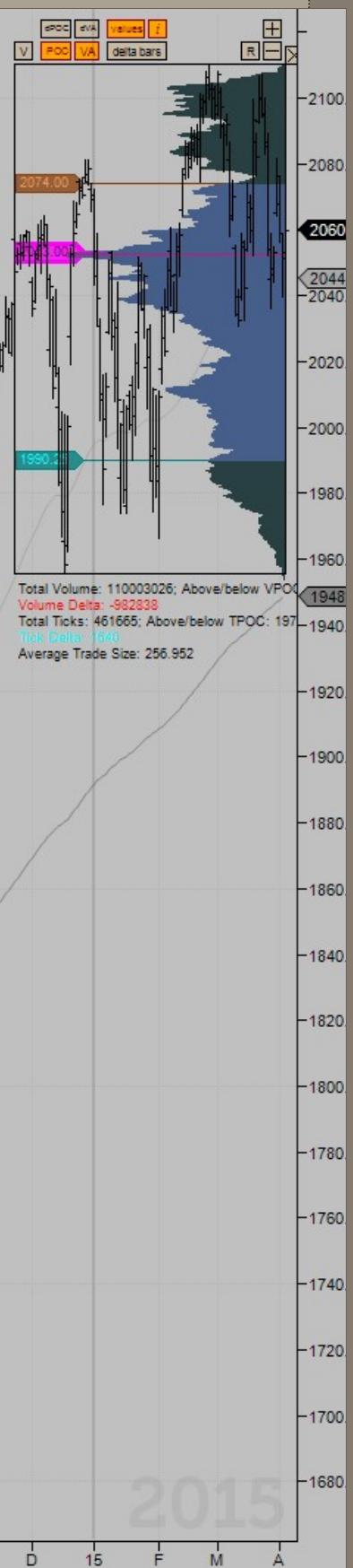
- In Between

Example of using on long-term chart. E-mini S&P 500 Futures, continuous contract, Daily Bar chart. Data Source = 'Minute' (using of 1-minute-granularity historical data).

dtRangeVolumeProfile

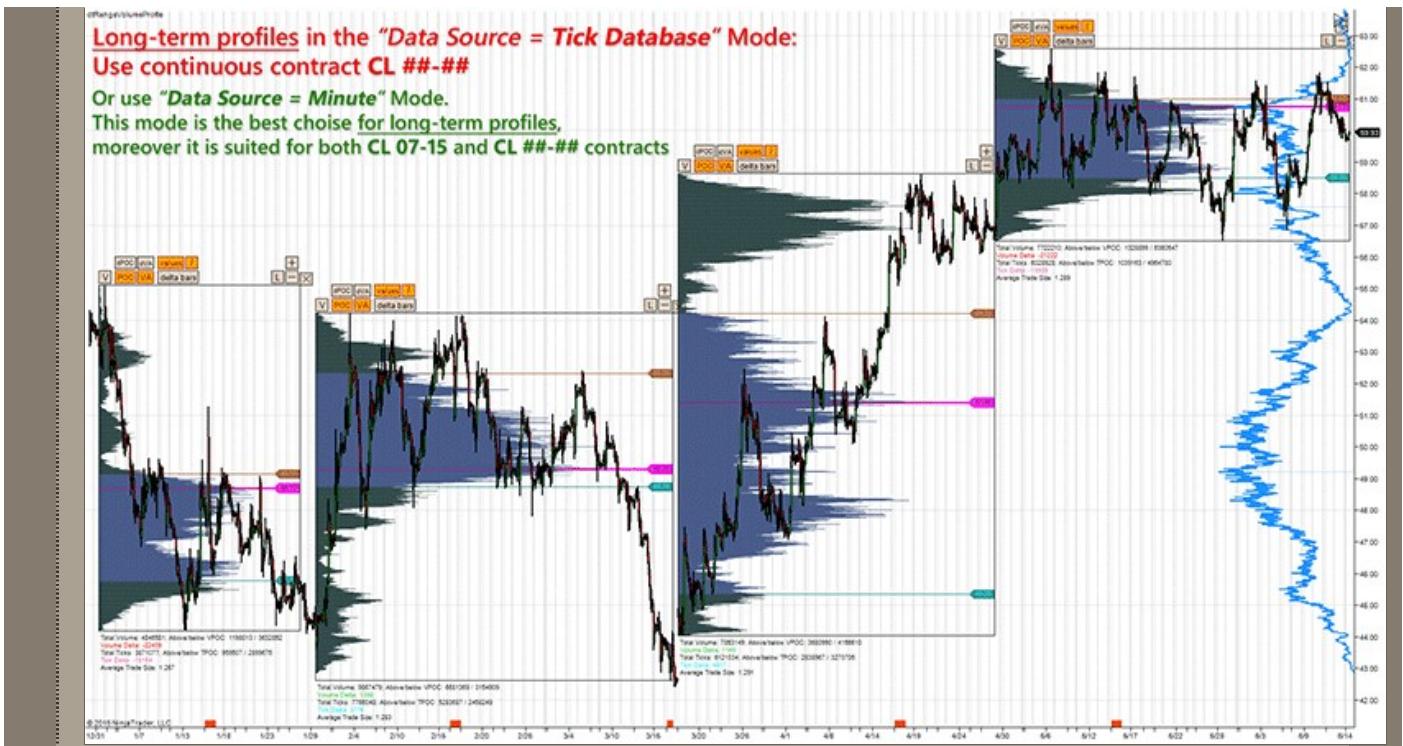
# ES#

## Range Volume Profile on long-term chart (Data Source = 'Minute data')



Total Volume: 114758782; Above/below VPOC: 62705241 / 51435790  
Volume Delta: -864596  
Total Ticks: 378205; Above/below TPOC: 28733 / 347623  
Tick Delta: -1978  
Average Trade Size: 347.579  
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Long-term chart of CL continuous futures based on tick data:



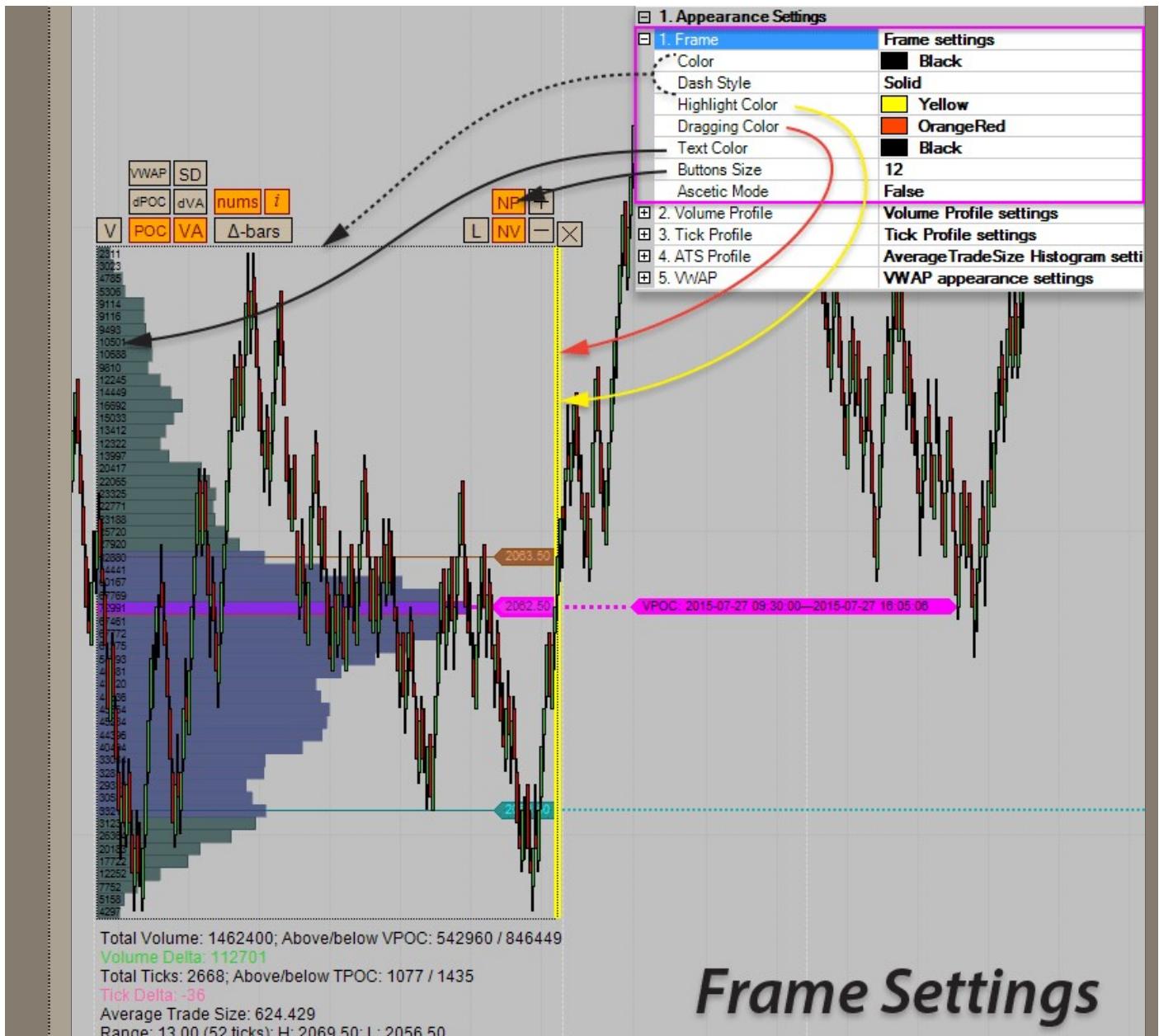
## Appearance Settings

**Appearance Settings** are generic to all kinds of profiles (Custom Range, Periodic, Composite).

## Frame Settings

- **Ascetic Mode** — enabling this mode hides some of rarely used interactive buttons and summary info. In this way the enhancing the readability of a chart is achieved.
- Note that enabling Ascetic mode affects not only Custom Range Profiles but also Periodic Profiles.
- Default shortcut key to toggle Ascetic mode: "/" on numeric keypad

Other Frame Settings are self explanatory enough:



### Volume Profile, Tick Profile and ATS Profile

Volume Profile and Tick Profile have similar appearance settings. These settings specify the appearance of histogram bars and Value Area levels.

1. Appearance Settings		1. Appearance Settings	
1. Frame		Frame settings	
<b>2. Volume Profile</b>		<b>Volume Profile settings</b>	<b>Volume Profile settings</b>
Bars Color	200, 47, 79, 79	Bars Color	200, 47, 79, 79
Outline Color	100, 40, 64, 65	Outline Color	100, 40, 64, 65
Value Area Bars Color	200, 57, 67, 120	Value Area Bars Color	200, 57, 67, 120
Value Area Outline Color	120, 70, 94, 138	Value Area Outline Color	120, 70, 94, 138
POC Bar Color	BlueViolet	POC Bar Color	BlueViolet
POC Outline Color	MediumVioletRed	POC Outline Color	MediumVioletRed
Positive Delta Color	LimeGreen	Positive Delta Color	Cyan
Negative Delta Color	Red	Negative Delta Color	HotPink
Numbers Color	Black	Numbers Color	DodgerBlue
Numbers Font	Arial, 9pt	Numbers Font	Arial, 9pt
POC Line	Solid, 3	POC Line	Solid, 3
VAH Line	Solid, 1	VAH Line	Solid, 1
VAL Line	Solid, 1	VAL Line	Solid, 1
Naked POC Line	Dot, 3	Naked POC Line	Dot, 3
Naked VAH Line	Dot, 2	Naked VAH Line	Dot, 2
Naked VAL Line	Dot, 2	Naked VAL Line	Dot, 2
Naked Labels Text Color	Black	Naked Labels Text Color	Black
3. Tick Profile	<b>Tick Profile settings</b>	3. Tick Profile	<b>Tick Profile settings</b>
4. ATS Profile	<b>AverageTradeSize Histogram settings</b>	4. ATS Profile	<b>AverageTradeSize Histogram settings</b>
5. VWAP	<b>VWAP appearance settings</b>	5. VWAP	<b>VWAP appearance settings</b>

ATS Profile is a simple visualization of Average Trade Size at Price histogram, so it has no Value Area levels.

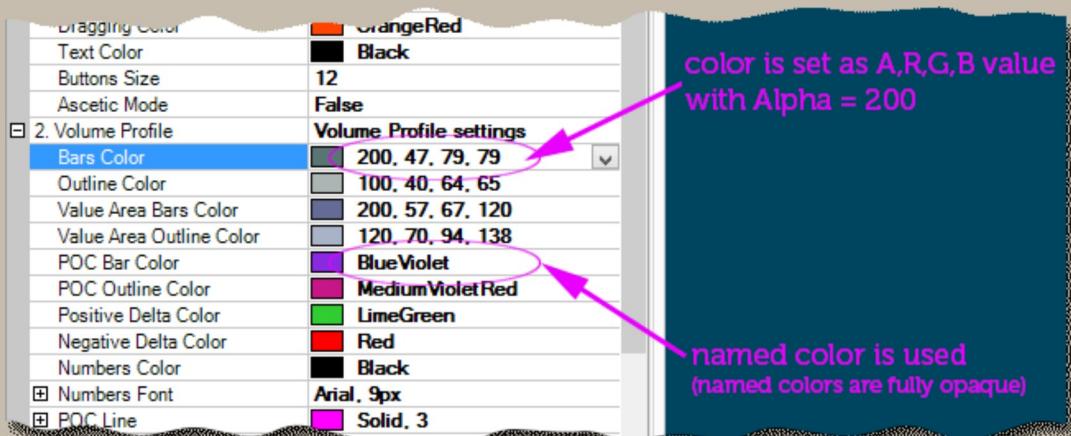
0. General Settings	
0. General	68.30%; Tick Data: [290, -)
1. Appearance Settings	
1. Frame	Frame settings
2. Volume Profile	Volume Profile settings
3. Tick Profile	Tick Profile settings
<b>4. ATS Profile</b>	<b>AverageTradeSize Histogram settings</b>
Bars Color	SaddleBrown
Outline Color	Sienna
Fade Bars	True
Numbers Color	Black
Numbers Font	Arial, 9pt
5. VWAP	VWAP appearance settings

### Tip

How can you make your histograms to be semitransparent?

Actually, in NinjaTrader you can use transparent colors.

The common way to specify a Color property in NinjaTrader is to select one of the named colors from the list. However, you can set the color manually by typing in the color value as **A,R,G,B** where **A** is **Alpha** (use Alpha = 0 for fully transparent color, 255 for fully opaque color). For example, if you need semitransparent Red color then just type the "128, 255, 0, 0" in the corresponding field.

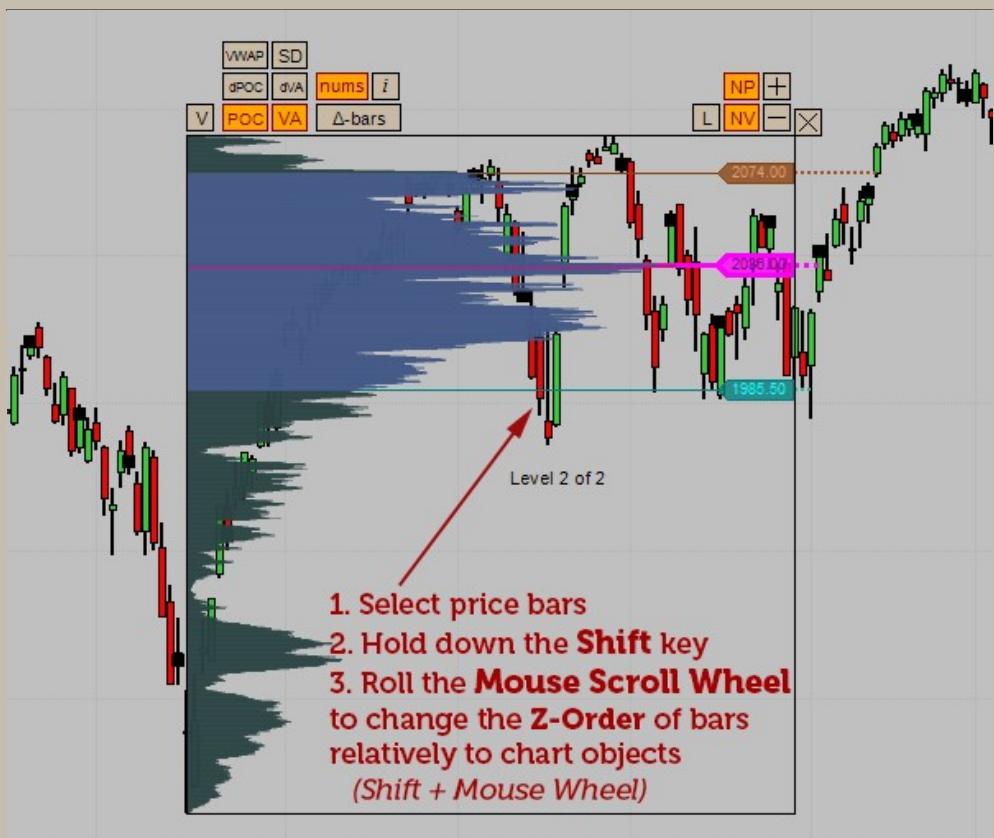


### Tip

What if a histogram overlaps candlestick chart?

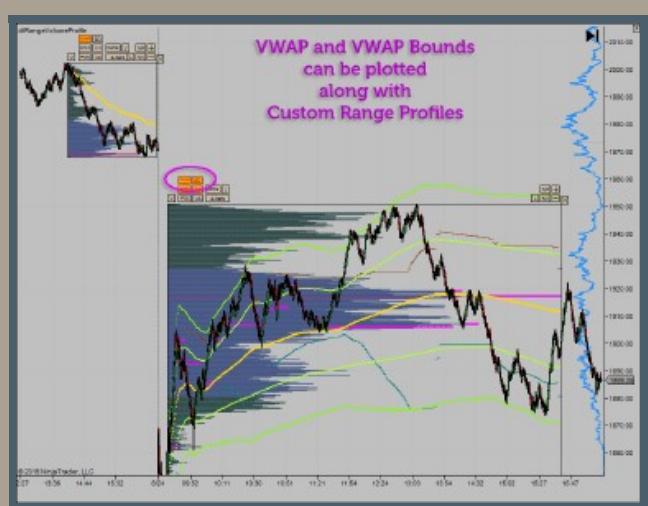
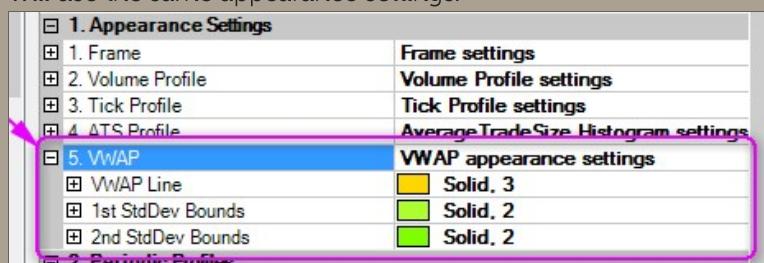
In NinjaTrader you can change the z-order of price bars, indicator plots and other chart objects relatively to each other.

So you can bring the candlestick chart to the forefront using "Shift + Mose Wheel" — select price chart or chart object, hold down the Shift key and roll the mouse scroll wheel to adjust the z-order.



### VWAP Appearance Settings

Since build 2.0.0.4 RVP has the capability to plot VWAP with Standard Deviation Bounds along with both Custom Range and Periodic Profiles. It doesn't matter which kind of profile you use to plot VWAP — all will use the same appearance settings.





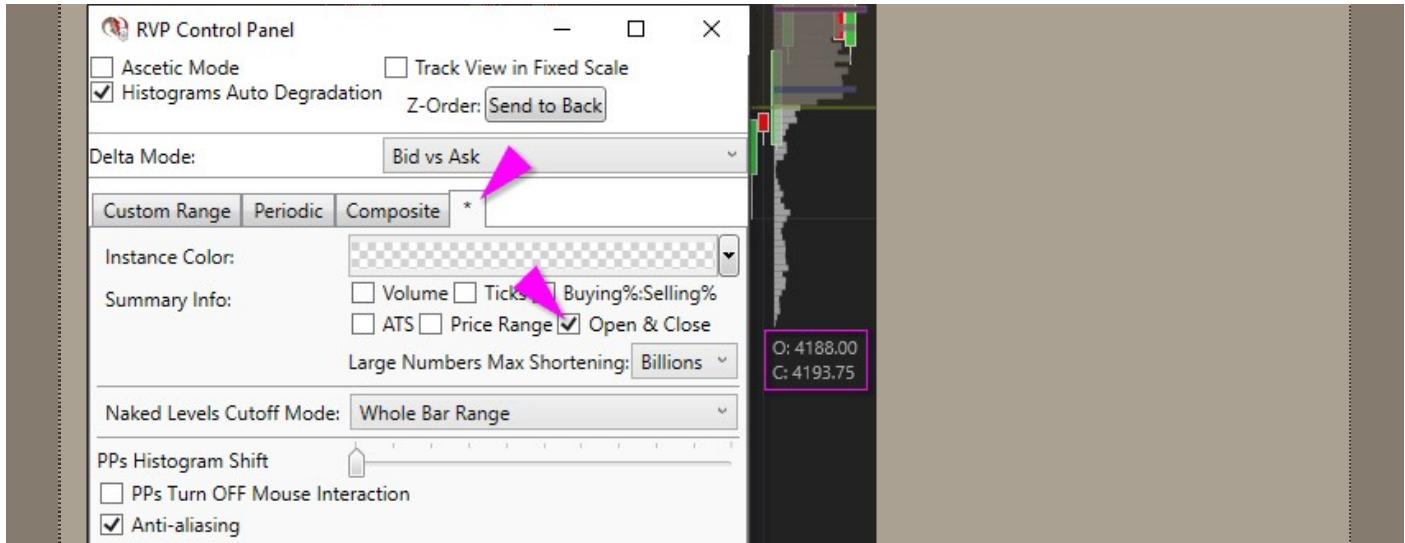
## Summary Info

**Summary Info** block provides very basic summary information related to a particular profile (whether Periodic or Custom Period Profile).

Here are expansions of the shorthand notations.

- $\Sigma V$  – Total Volume (number of contracts) traded over the period.
- $\Delta V$  – Volume Delta over the period – the difference between total “buying volume” and total “selling volume” \*.
- Pseudo- $\Delta V$  – Volume Pseudo-Delta over the period – the difference between total volume of “bullish” minute intervals and total volume of “bearish” minute intervals.
- $\Sigma T$  – Total Trades (number of trades, also known as *fills*, *filled orders*, *ticks*, *transactions*, *order executions*,...) executed over the period.
- $\Delta T$  – Tick Delta over the period – the difference between the total num of “buying trades” and total num of “selling trades”.
- Pseudo- $\Delta T$  – Tick Pseudo-Delta over the period – the difference between the count of “bullish” minute intervals and the count of “bearish” minute intervals.
- Additional Buying%-Selling% numbers (disabled by default) show the percentage of “buying” volume or ticks vs “selling” volume or ticks (e.g. 49%:51%).
- ATS – Average Trade Size – Average number of contracts per trade traded during the period.
- $\uparrow$  – Price Range in \$ value (as well as in price ticks in parentheses) = High price minus Low price.
- H – High – Highest price of the period.
- L – Low – Lowest price of the period.
- O – Open – Opening price (price of the most first trade) of the period.
- C – Close – Close price (price of the last trade) of the period.

It is possible to turn on/off various parts of Summary Info block easily on-the-fly through the *RVP Control Panel -> [\*] tab:*



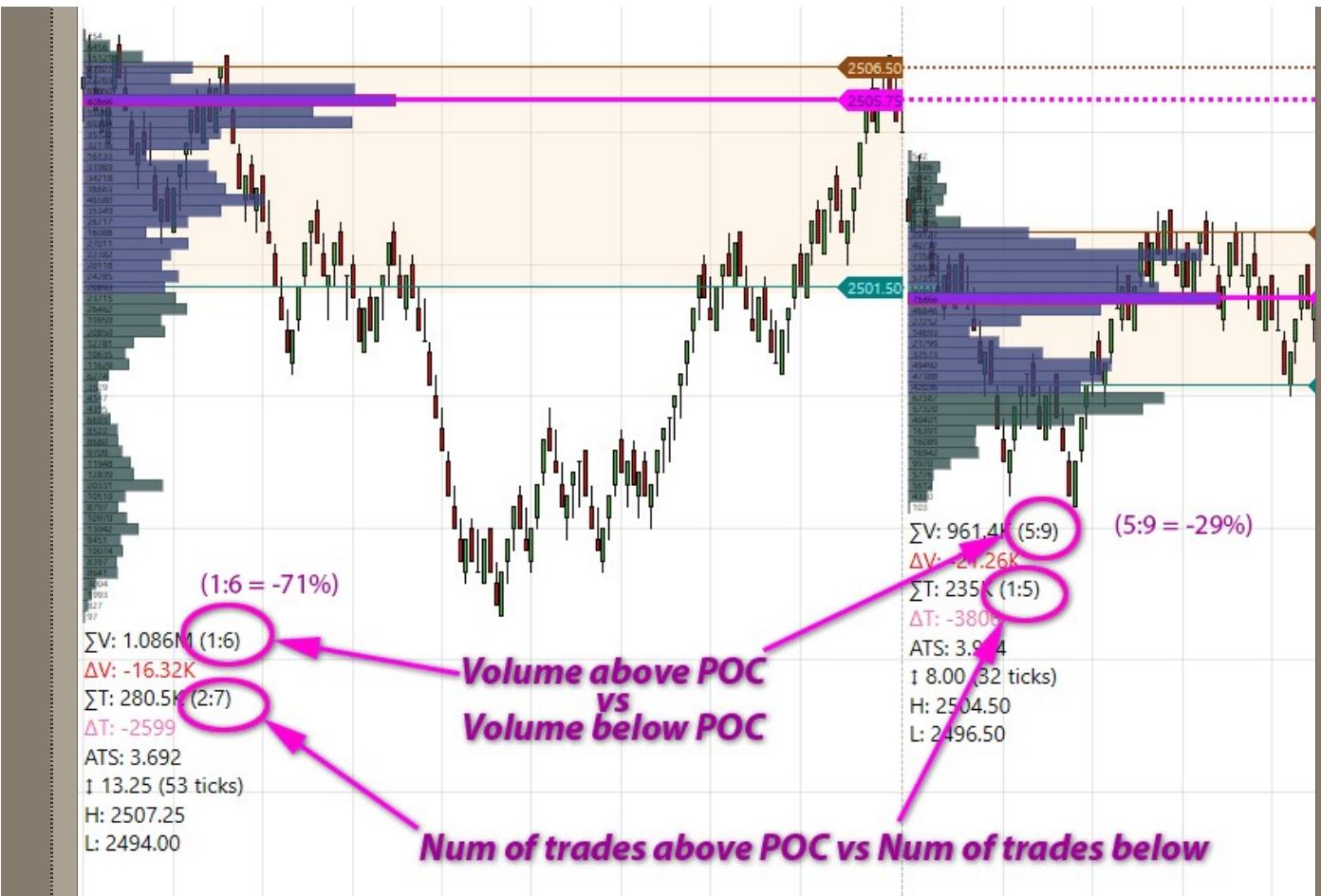
### Notes:

\* — Every trade has always two participants — buyer and seller. Thus the "buying volume" and "selling volume" are the terms related to *initiative side of trade* which is defined by chosen Delta estimation technique: "Bid vs Ask" or "Up Tick vs Down Tick".

*Delta meaning when Data Source is "Minute Series":* Notice that RVP will calculate "Pseudo-Delta" instead of the common Delta if the 'Data Source' core option is set to "Minute Series". As historical tick data isn't utilized in this mode the Delta is calculated on the historical data with 1-minute granularity as the following:

[Volume Pseudo- $\Delta$ ] = [Volume of Bullish 1-Min intervals] minus [Volume of Bearish 1-Min intervals] for the period of the profile.

*Profile Imbalance:* The Summary Info also includes Volume- and Tick-based Profile Imbalances shown as Ratio (simple arithmetical fraction 'Volume above POC : Volume below POC') which is much easily readable than long numeric values. That is, RVP prints approximate ratio "5 : 9", "1 : 6", ... which can be more easily processed by human brain and visualized mentally than long values of volume or ticks (read as "1 part of total volume above vs 6 parts of total volume below v poc").



Three kinds of profiles:

adjustable **Custom Range Profiles**, classic **Periodic Profiles** and **Composite Profile**

<b>0. General Settings</b>	
0. General	68.30%; Tick Data: [290, -]
<b>1. Appearance Settings</b>	
1. Frame	Frame settings
2. Volume Profile	Volume Profile settings
3. Tick Profile	Tick Profile settings
4. ATS Profile	Average TradeSize Histogram settings
5. VWAP	VWAP appearance settings
<b>2. Periodic Profiles</b>	
Periodic Profiles	Periodic Profiles: Sessional
Shortcut keys	Expand to access all hot keys
<b>3. Composite Profile</b>	
Composite Profile	ON
LVN and HVN	OFF
<b>4. Range Profiles</b>	
Custom Range Profiles	(Collection)
Default Settings	Expand to see all parameters
Shortcut keys	Expand to access all hot keys
<b>5. Misc Settings</b>	
License	
Data	
Visual	

## Periodic Profiles

RVP Periodic Profiles can be used for building classic Daily or Weekly Volume Profiles, for example. Periodic Profiles can work in real-time as incoming real-time data is used to dynamically update current (unfinished) Profile.

Most of the switchers are available through toolbar→drop-down menu. Drop-down menu provides quick access to high-usage settings in such a way that any changes will take immediate effect so you no more

need to get into "Indicators" settings window. For example, you can change the mode of Periodic Profiles from 'Volume-based' to 'Tick-based' or turn off the plotting of Periodic Profiles at all just in a click.

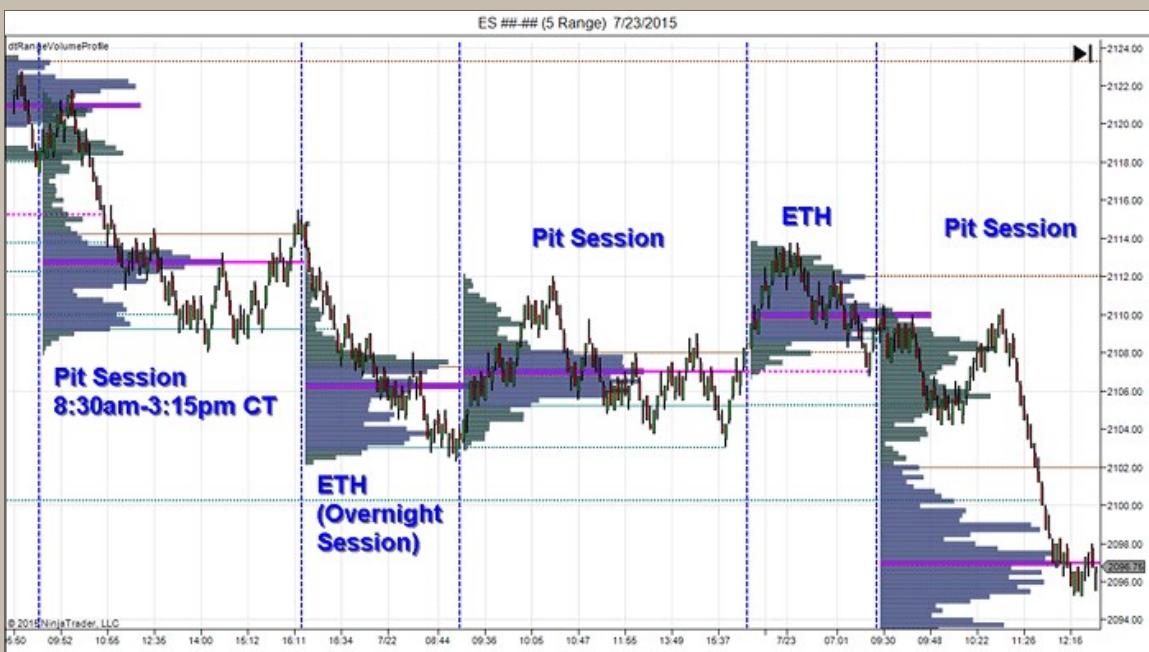
### Tip

*Is there a way to separate Overnight session from Regular session (Open Outcry on full-sized contract) to get independent profiles for each on the same chart?*

Actually, the "Sessional" periodicity (set by default) of Periodic Profiles is the most generic periodicity option as it enables RVP to use selected **Trading Hours** template when building Periodic Profiles

(see '2. Periodic Profiles' settings section -> expand 'Periodic Profiles' expandable parameter -> set 'Periodicity' to "Sessional".)

Thus, the use of a custom **Trading Hours** template allows to solve this task. In NinjaTrader you can create quite complex session templates. This is powerful capability: for example, it is easy to split trading day to "Overnight" and "Pit" trading hours and combine the both sessions in one template. This will allow to display Pit and Overnighit volume profiles separately on the same chart:



The following Trading Hours template is used here:

**Trading Hours**

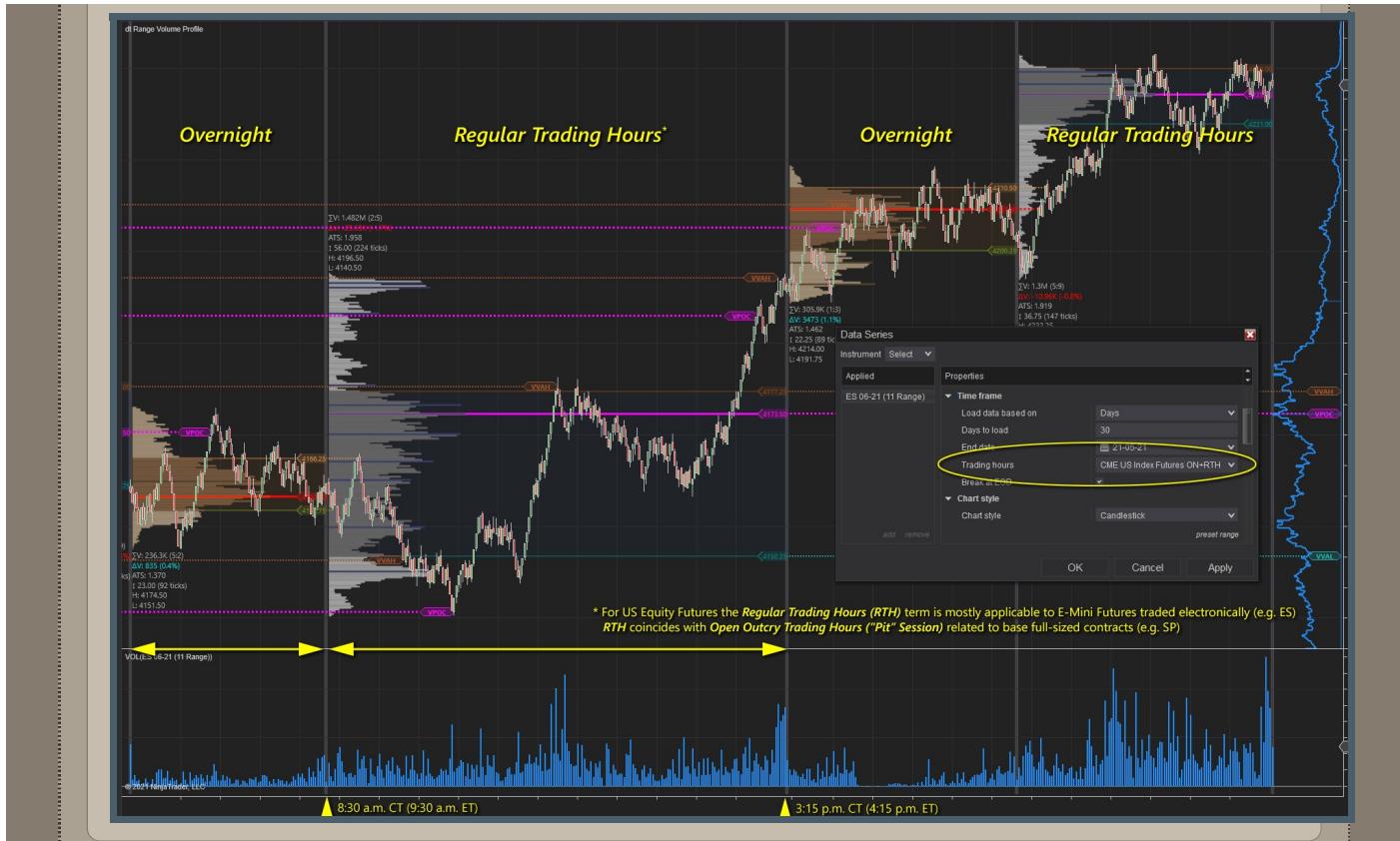
Templates	Properties				
CME Commodities ETH	<b>General</b>				
CME Commodities RTH	Name	CME US Index Futures ON+RTH			
CME Forest Futures	Time zone	(UTC-06:00) Central Time (US & Canada)			
CME Forest Futures ETH	<b>Sessions</b>				
CME FX Futures ETH	Start day	Start time	End day	End time	EOD
CME FX Futures RTH	Sunday	17:00	Monday	8:30	<input checked="" type="checkbox"/>
CME Global Index Futures RTH	Monday	8:30	Monday	15:15	<input checked="" type="checkbox"/>
CME Housing Futures ETH	Monday	15:30	Tuesday	8:30	<input checked="" type="checkbox"/>
CME US Index Futures ETH	Tuesday	8:30	Tuesday	15:15	<input checked="" type="checkbox"/>
<b>CME US Index Futures ON+RTH</b>	Tuesday	15:30	Wednesday	8:30	<input checked="" type="checkbox"/>
CME US Index Futures RTH	Wednesday	8:30	Wednesday	15:15	<input checked="" type="checkbox"/>
Cryptocurrency	Wednesday	15:30	Thursday	8:30	<input checked="" type="checkbox"/>
Default 24 x 5	Thursday	8:30	Thursday	15:15	<input checked="" type="checkbox"/>
Default 24 x 7	Thursday	15:30	Friday	8:30	<input checked="" type="checkbox"/>
Eurex Equity Index Futures	Friday	8:30	Friday	15:15	<input checked="" type="checkbox"/>
Eurex Equity Index Futures Extended					
Eurex Fixed Income Futures					
Eurex Fixed Income Futures Extended					
Eurex German Equity					
Eurex German Equity Extended					
Eurex SMI Index Futures					
Euronext CET Index Futures RTH					
Euronext GMT Index Futures RTH1					
Euronext GMT Index Futures RTH2					
Euronext GMT Index Futures RTH3					
Euronext GMT Interest Rate Futures1					
Euronext GMT Interest Rate Futures2					
Forex					
German Equities					
HKFE					
Idem					
Ipe Europe Futures					
Ipe US Agriculturals1					
<b>Holidays</b>					
	Trading date	Start date	Start time	End date	End time
	19-01-15			19-01-15	12:00
	16-02-15			16-02-15	12:00
	03-04-15			03-04-15	8:15
	25-05-15			25-05-15	12:00
	03-07-15			03-07-15	12:00
	07-09-15			07-09-15	12:00
	26-11-15			26-11-15	12:00
	27-11-15			27-11-15	12:15
	24-12-15			24-12-15	12:15
	25-12-15				Full Day

**OK**   **Cancel**   **Apply**

So well, you can [download sample "CME US Equity Index Futures ON+RTH" Trading Hours template \(in .zip archive\)](#) or create custom template for your traded instrument if necessary: go to 'Tools' -> 'Trading Hours' menu of NinjaTrader Control Center.

In order to install the provided sample template unpack and move the "CME US Index Futures ON+RTH.xml" file into "<Your PC>\Documents\NinjaTrader 8\templates\TradingHours" folder.

Then restart NinjaTrader. The "CME US Equity Index Futures ON+RTH" Trading Hours will become available to set in Data Series settings window:

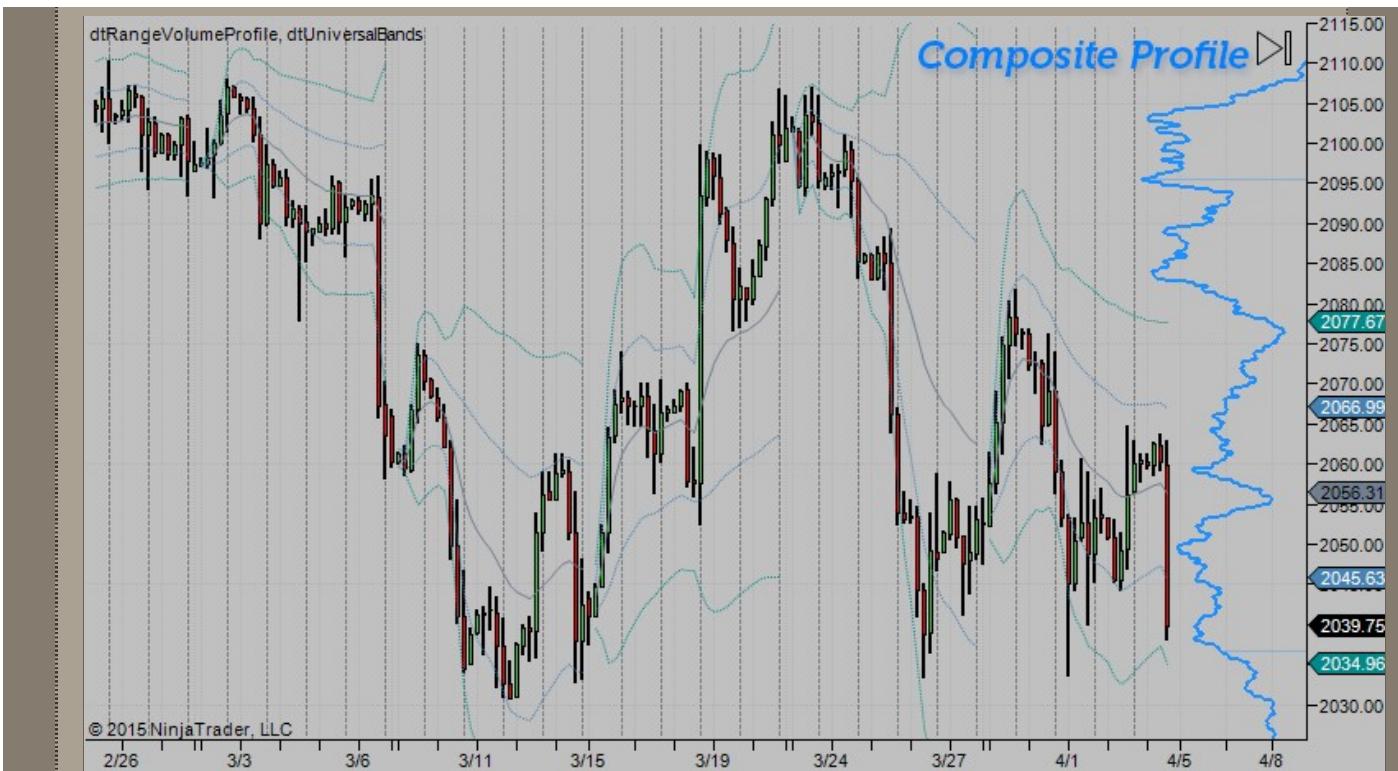


## Custom Range Profiles

[Short video tutorial](#)

## Composite Profile

Example: Composite Volume Profile, ESM5, 4H



- **Period.**

- *Use All Bars* — all data available on the chart will be used to build Composite Profile.
- *Specify Start Date And Time* — the data older than the specified date and time will be left out of account when building Composite Profile.

- **Update Real-Time.** If enabled then Composite Profile will be updated real-time using incoming tick data. (Off by default.)

#### Low and High Volume Nodes (LVN and HVN)



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