TradeGuider VSA 4.7

For MT5

Operational Manual

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May 2016

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The purpose of this document

TradeGuider VSA software Add-In Release 4.7 (hereafter - VSA Add-In) is intended to help users in learning Volume Spread Analysis Methodology as well as providing various tools to identify and manage high probability, low risk trades. The VSA Add-In has been developed for different trading and analytical platforms.

This document describes the sequence of actions required for the installation and further activation of all components included in the VSA Add-In specifically for the MT5 Platform (hereafter - MT5). It also provides a detailed description of the setup parameters for every software component.

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Main components of VSA Add-In for the MT5

The VSA Add-In for the MT5 Platform is delivered to the users in one file ***TG_47_VSA_SW_4.7.0.ZZ_Setup.exe*** (hereafter "Installer"), where ZZ represents the latest available software version. It consist of the following components:

- TradeGiuder VSA Plug-In for MT5 (hereafter – VSA Plug-In) includes:
  - ***TG_VSAPlugin_4_7***
    - An indication of the interaction between Supply and Demand on the particular Chart
    - Corresponding description of VSA indicators, representing an interaction between Supply and Demand
    - Short Term VSA Trend (Diamonds)
    - Trend Clusters
    - Middle Term VSA Trend, VSA Simple Trending System, No bar coloring
  - ***TG_VSATrend_4_7***
    - Middle Term VSA Trend or
    - VSA Simple Trending System or
    - Volume Thermometer
  - ***TG_VSAVolume_4_7***
    - VSA Relative Volume

- TradeGiuder VSA Sequential Scanner for MT5 (hereafter – VSA Scanner) includes:
  - **TG_VSAScanner_4_7**, scanning multiple time frames (up to 10) of selected trading instruments for VSA principals as well as alerting the User when the selected sequence is found.

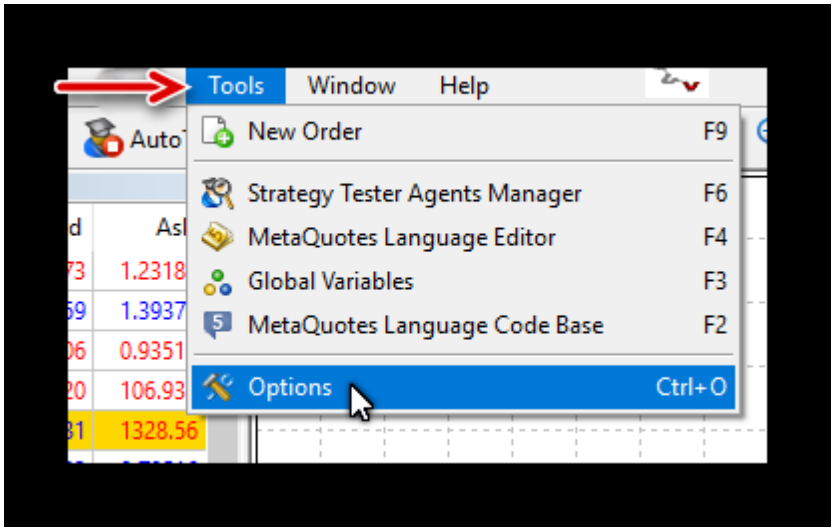
Important note 1: The Plugin and Scanner require a separate activation. The plugin must be activated before the scanner.

VSA Software installation

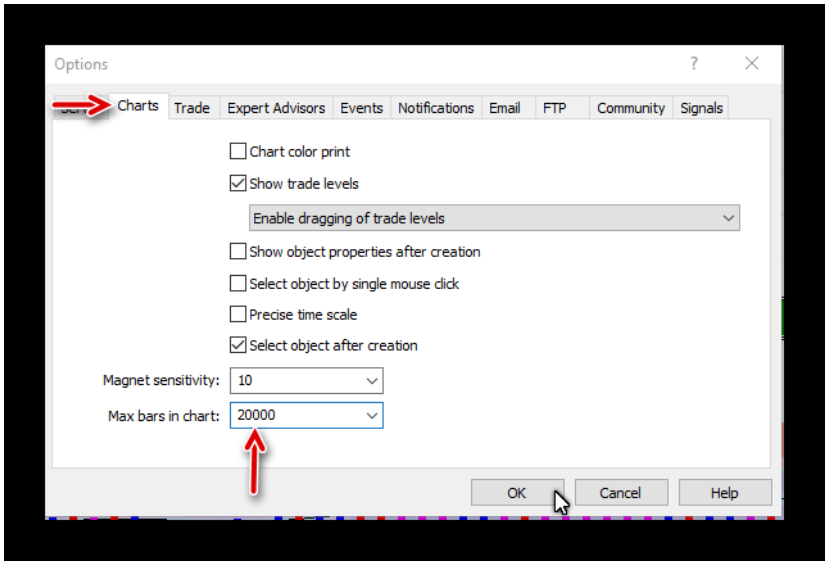
Prior to the VSA software installation:

Changing your MT5 settings:

- Open your MT5 platform.
- Click Tools on the menu of MT5.
- Choose Options from the list.



- Select the Charts tab.
- Set the “Max bars in chart” to 5000 (or less, if you find that charts load slowly you may reduce this down as low as 1000 safely).



- Change to the “Expert Advisors” tab.
- Check the box labeled “Allow DLL imports…”

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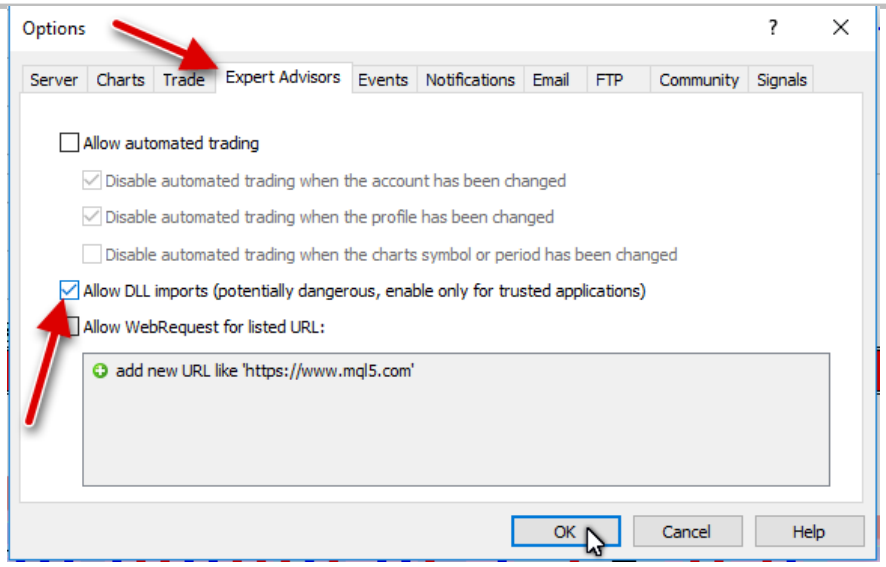
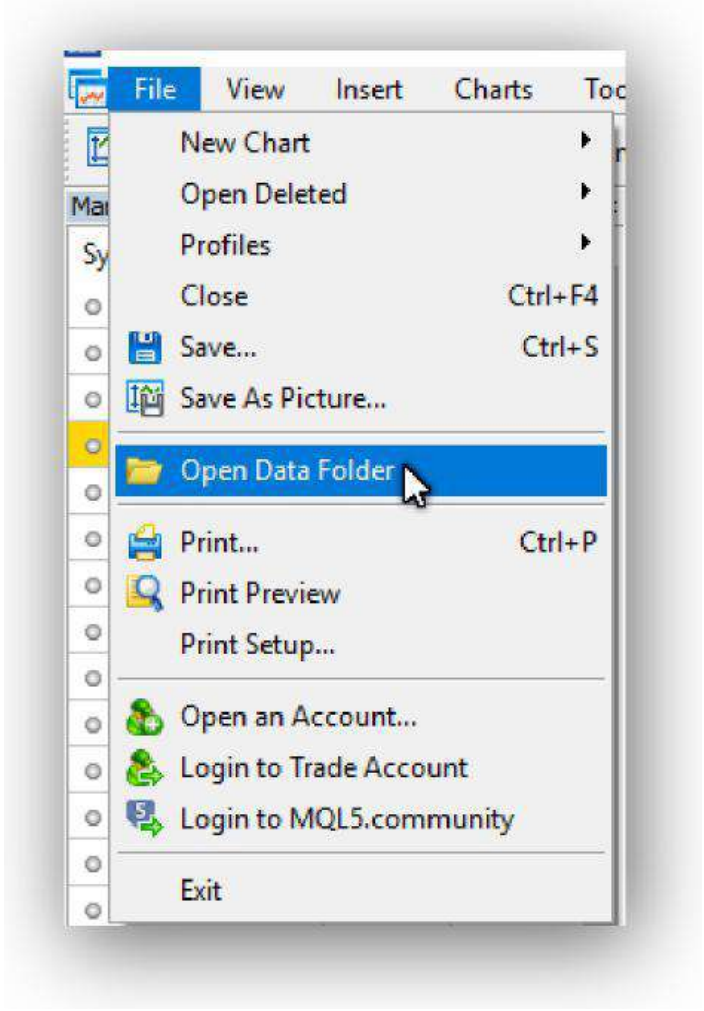


- Click the “OK” button.
- Now click File on the menu.
- Choose the “Open Data folder” option. This will open a new file explorer window where your MT5 data files are located and is required for the installation of VSA. Keep this open during the installation.



- Close the MT5 platform.

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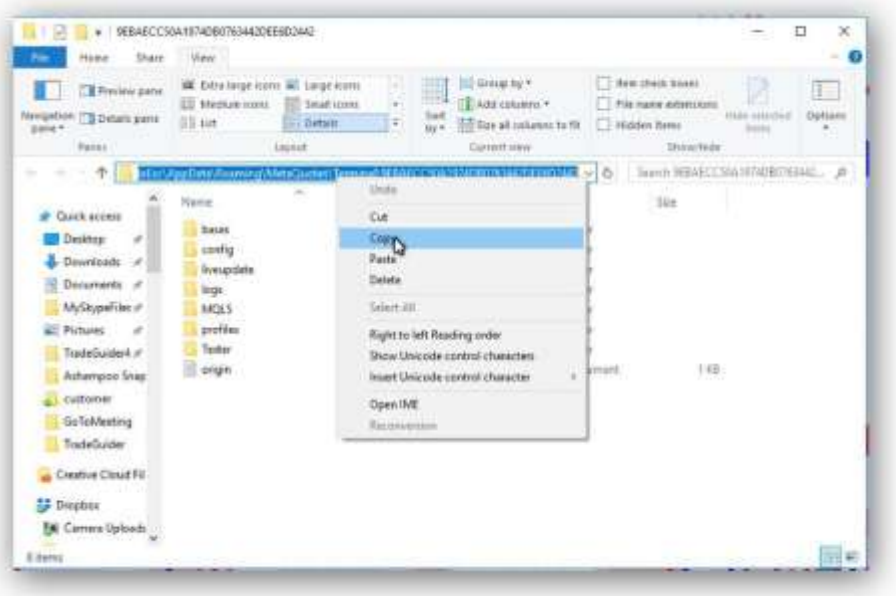
- In the MT5 data folder that you just opened, select the file path so that it is highlighted, then right-click on the highlighted selection and choose Copy. Alternately you can press the <Ctrl> + C keys on your keyboard to copy this.



The file path will look similar to the following:

C:\Users***YourUserName***\AppData\Roaming\MetaQuotes\Terminal\9EBAECC50A1974DB07634 42DEE6D2442 where ***YourUserName***, will be the username of your computer account.

- If you have VSA Add-ins installed for any other platform (MT4, MT5, SierraChart, Metastock, NinjaTrader7) make sure that ALL those platforms are closed as well.

Important note: If you have previously installed VSA for any platform and this is an updated version, it will update all other installations of VSA to the new version. It is not necessary to update VSA for each platform.

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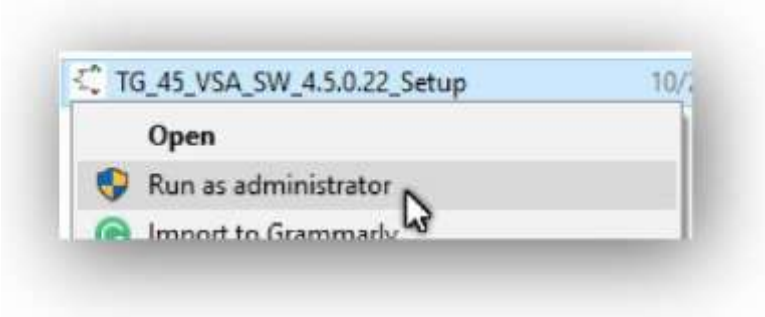
Downloading the Installer

- The software installation file is available in your TradeGuider account. Please download the file from the products or software section after you have logged into the TG website.
- Save the Installer file (*TG_47_VSA_SW_4.7.0.ZZ_Setup.exe*) into any temporary directory. The most common location is your downloads folder.

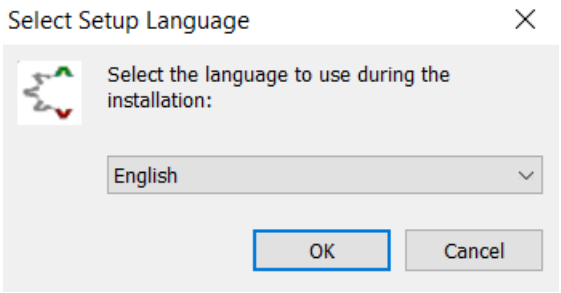
Note: After successful installation, this file will not be required and can be removed.

Running the Installer

1. Right click mouse on the downloaded file *TG_47_VSA_SW_4.7.0.ZZ_Setup.exe* (where ZZ is the latest available version of the software and on the picture below it is equal to 01)
2. In the open menu move mouse to the item "Run as Administrator" and left click mouse on it



3. In the Language Selection Window, select your required language for the installation process. Then click "Ok" button



Currently the Installer supports following languages:

- English
- Polish
- Russian
- Spanish

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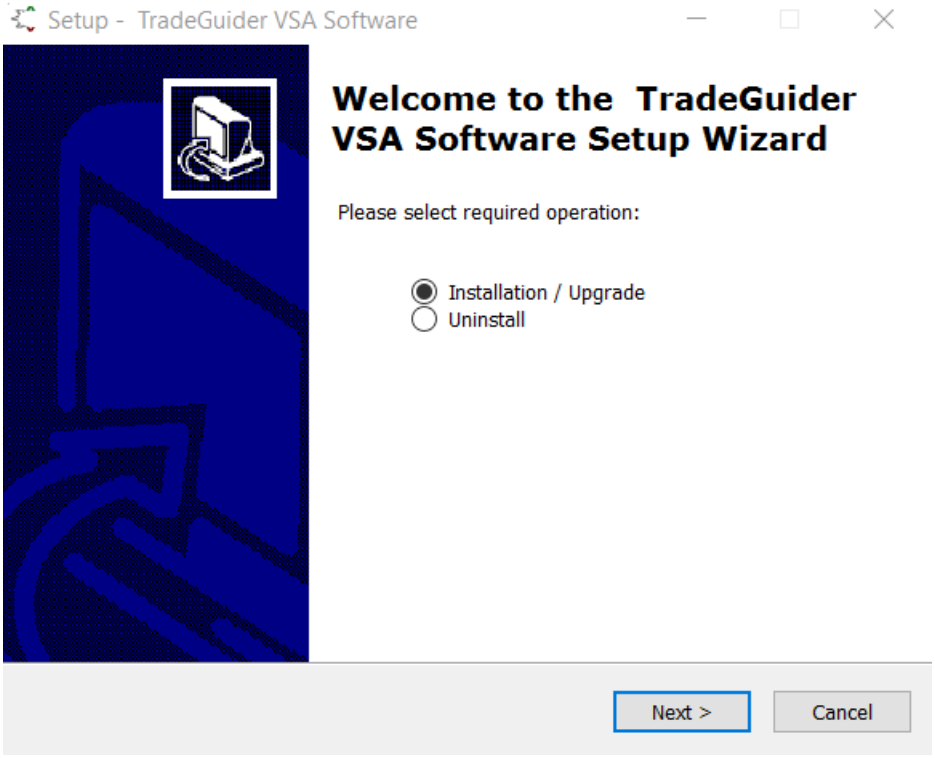
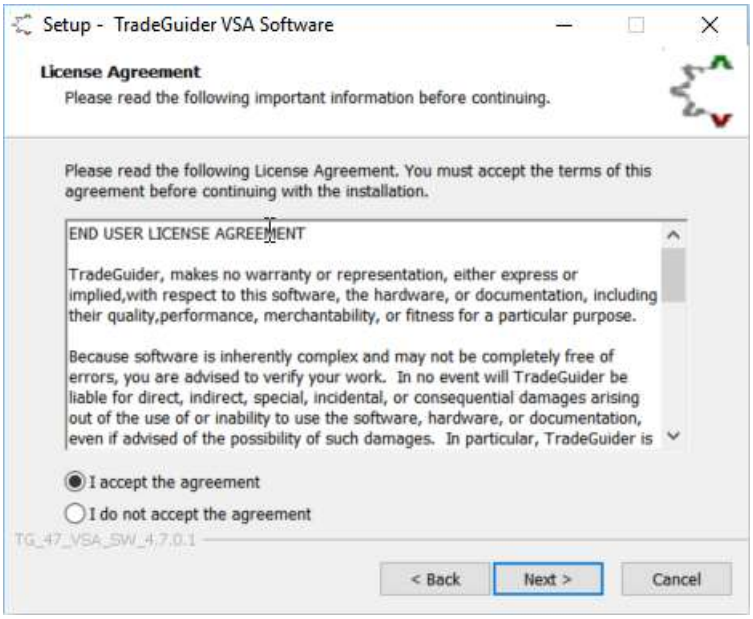
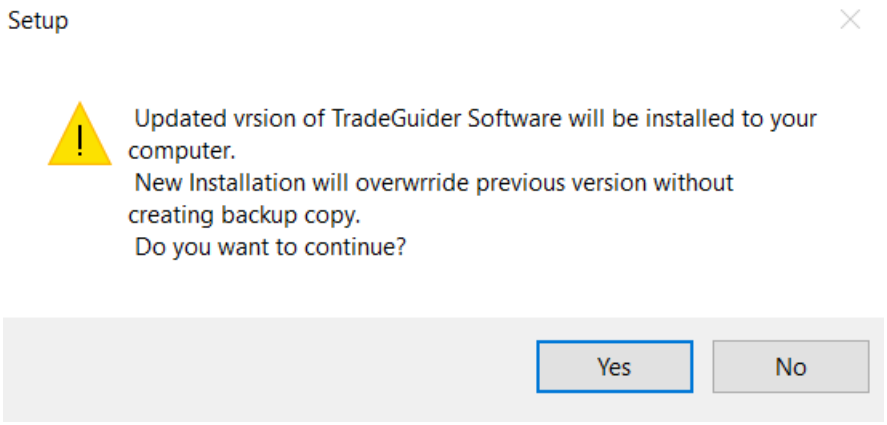
4. Select Installation/Upgrade in the Welcome Window and click the “Next” button



5. In the License Agreement Window, carefully read the End User License agreement. Then click either the "Cancel" button if you do not agree with the License Agreement (setup process will be interrupted if you cancel) or click the "Next" button if you accept the License Agreement and would like to proceed with the installation of the software.



6. If a previous version of VSA Software 4.7 has already been installed on your computer, you will be requested to accept an update. Click on "Yes" button and then skip to steps 10 and 11 below.



Important note: The VSA software of each previously installed Add-In and its components will automatically be updated to the new version. SOME ADD-INS MAY REQUIRE VERY SPECIAL PRE-UPGRADE PROCEDURES. DO NOT PERFORM AN UPDATE IF YOU ARE CURRENTLY TRADING ON A LIVE ACCOUNT!

Important note: After the upgrade has finished, you will need to repeat the Steps 1-5 again.

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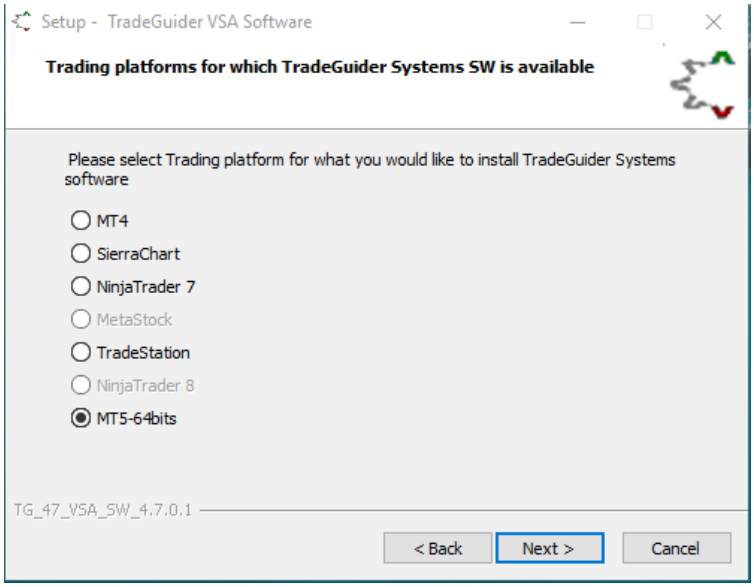
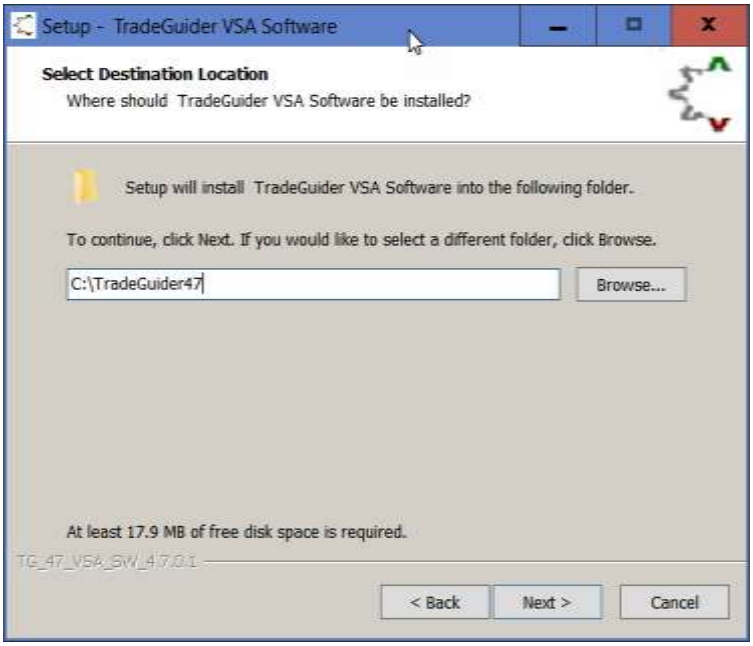
7. If the VSA Add-In software on your computer is up-to-date or the VSA 4.7 Add-Ins have not been previously installed, after Step 5, the Add-In selection Window will appear. Select MT5 and click “Next” button



8. If the VSA 4.7 Add-Ins has not been previously installed on your computer, this Step will be skipped and you will go the Step 9.

In the Destination Location Window, select the directory where you would like core part of VSA Add-In to be installed and click “Next” button. The default path is **C:\TradeGuider47**



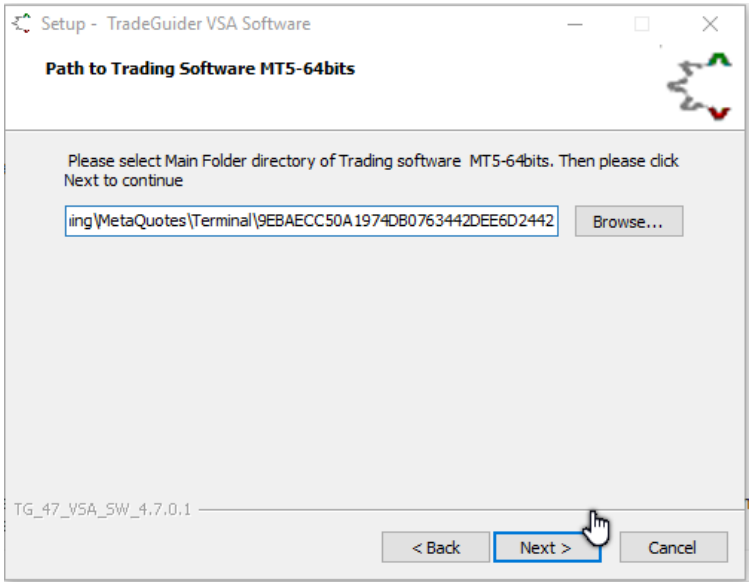
Important note: We do not recommend installing the core part of the software to the following directories of the System Drive:

- Program Files
- Program Files (x86)
- Windows

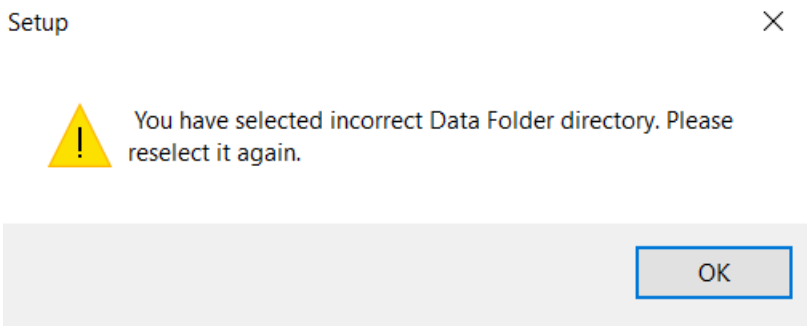
In most of the cases those folders require elevated administrative access rights to modify the files what can cause some issues with the operation of the VSA Add-In components.

9. In the MT5 Installation Directory Window enter the path of the MT5 data folder. This is the data folder from the "Prior to installation" section listed above. Open this folder, highlight the MT5 data folder path and copy it. The data folder path will look similar to, but not exactly the same as:

C:\Users\User1\AppData\Roaming\MetaQuotes\Terminal\9EBAECC50A1974DB0763442DEE6D2442. Now paste your data folder path into the Setup file and click "Next" button.



If you do not select the correct director, you will see the error message below. Please double check that you have copied the correct folder location.



Then click "OK" button and reselect correct directory again

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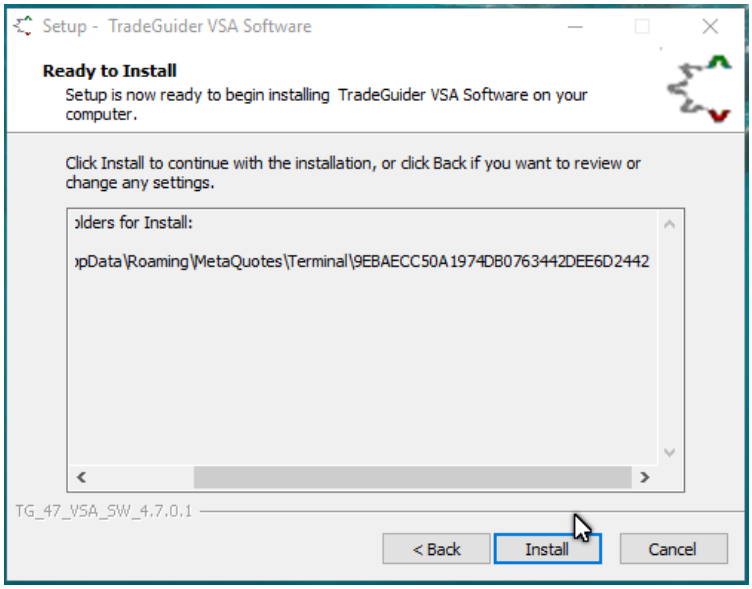
10. In the Ready To Install Window click “Install” button



Important note: If the VSA Add-Ins have never been installed on your computer you may be requested to install the **Microsoft Visual C++ 2013 Redistributable (x86) Package** and the **Microsoft Visual C++ 2013 Redistributable (x64) Package**.

Follow the instructions provided on the screen to complete this installation of the Microsoft files, then **RESTART** your computer **AFTER** Step 11 and continue with the manual.

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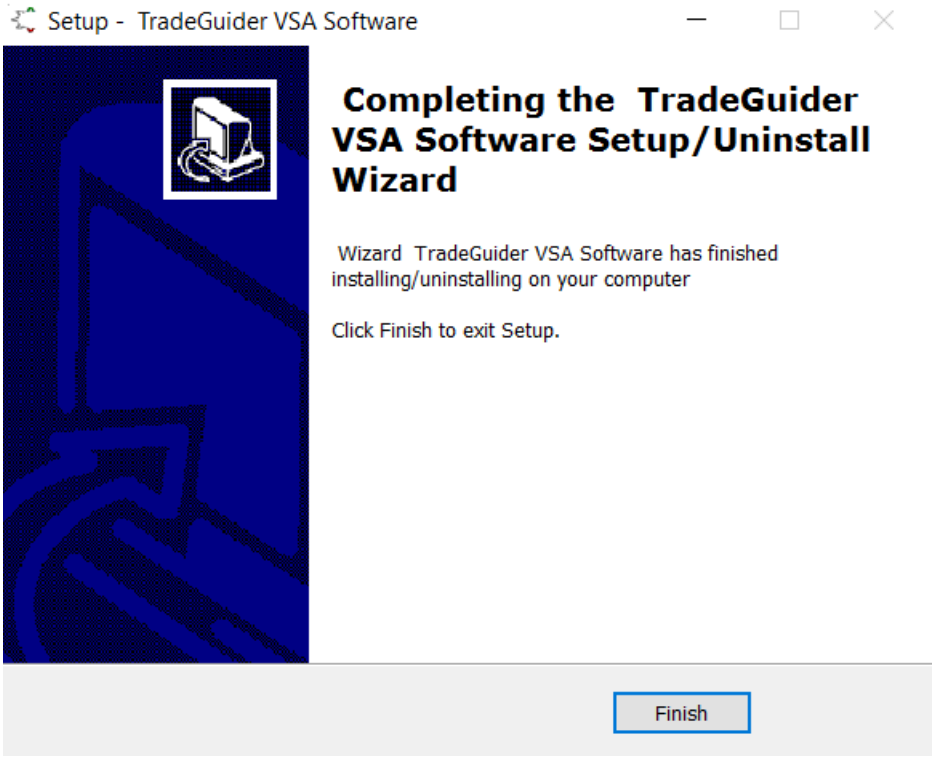
11. After an installation is completed, you will be able to see the completing the TradeGuider installation window. Click the “Finish” button to complete the installation and exit.



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VSA Software Activation

Software Activation preparation

Prior to the VSA Software components activation

1. Go to the www.tradeguider.com site and click Customer Login and enter your email address and password.
2. Go to the “Software” menu and click “Access Now” button for the **MT5** product.
3. You will then see the Activation Codes for the Add-In and Scanner (if it has been purchased). Keep this page open to easily find the activation codes.
4. Open the MT5 Platform
5. In the MT5 Platform create a new profile.
6. Close all open charts and then open **ONLY ONE** chart of any instrument and remove all indicators from the chart if there are any. You should have a blank chart.
7. Change the time frame of this chart to MN or “Monthly”. This is important so that there is enough data loaded for the scanners.

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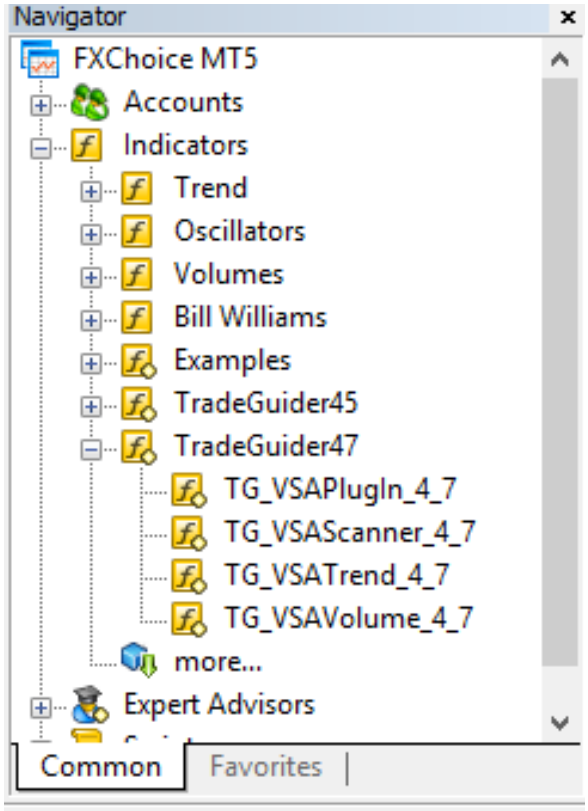
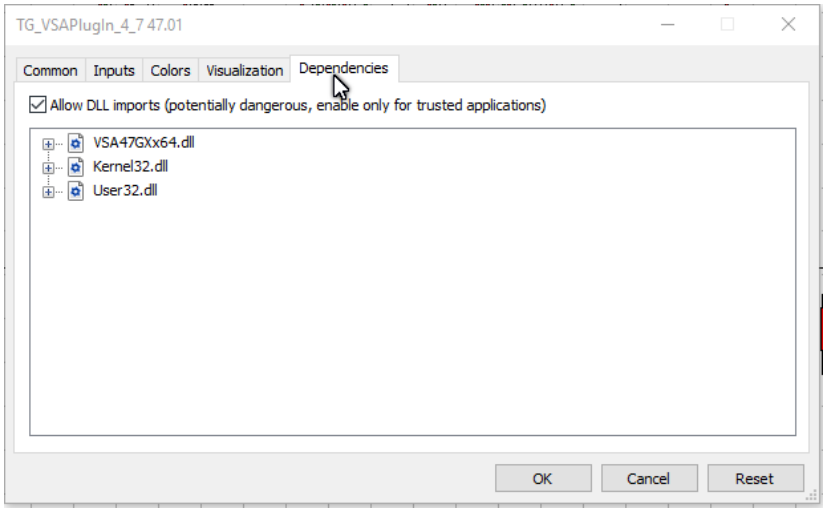
VSA Plug-In activation

1. Go to the Navigation section of MT5, if it is not open click the Ctrl+N button to open the Navigator. Expand the Indicators section, and then expand the TradeGuider47 section.



2. Left click on the **TG_VSAPlugin_4_7** hold the left mouse button and drag it to your chart.
3. In the Dependencies tab, make sure that the "Allow DLL imports…" box is checked.



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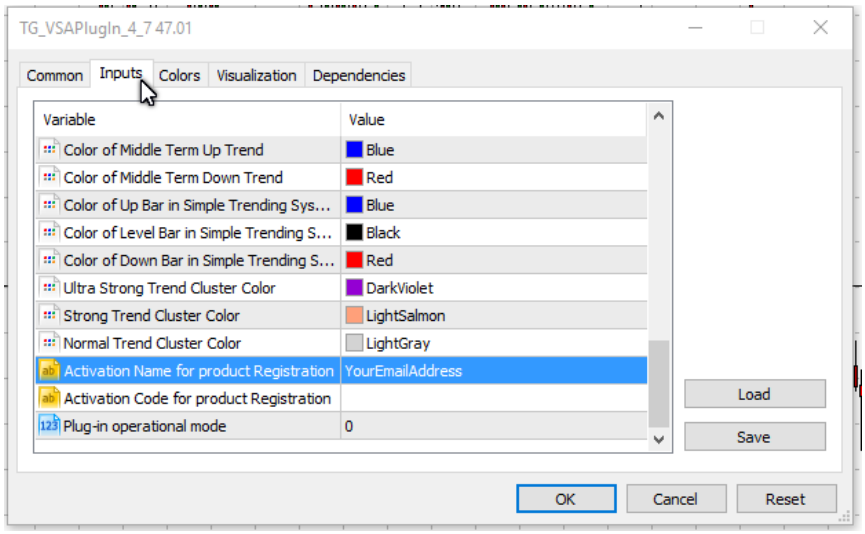
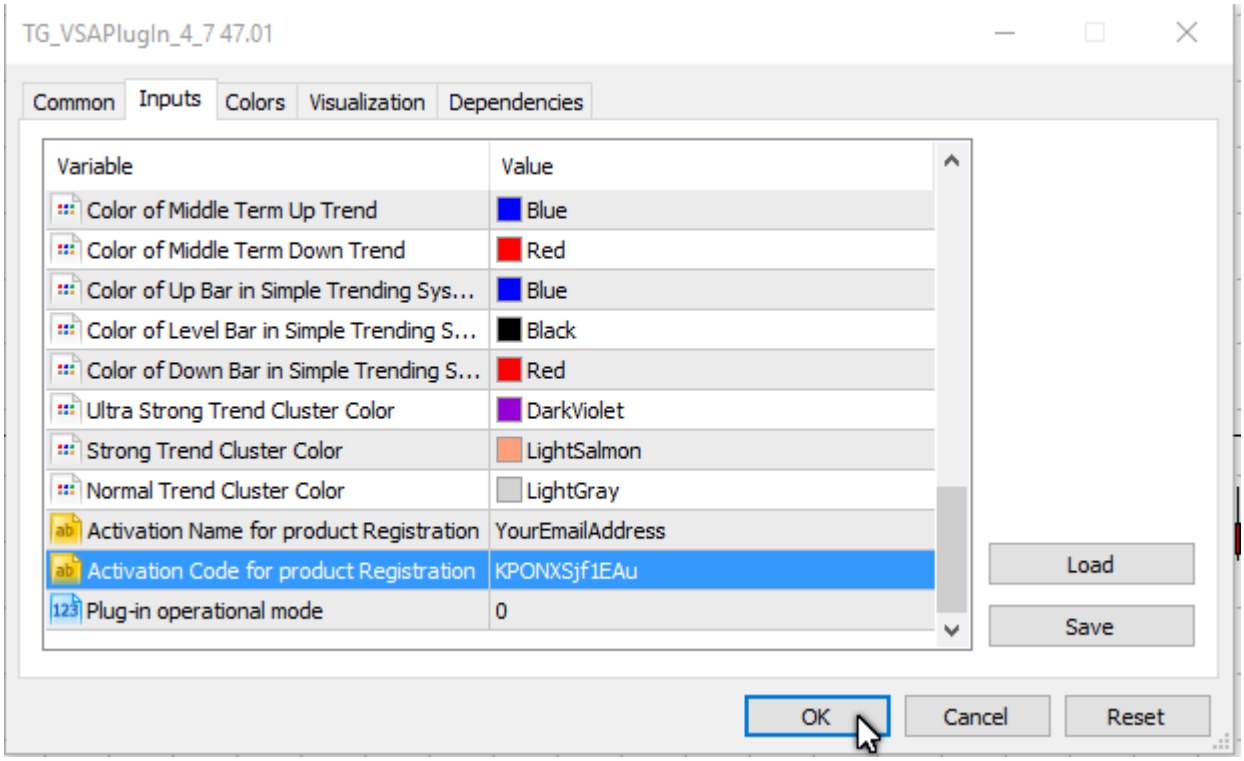
4. Select the "Inputs" tab and scroll to the **ActivationName** parameter. Enter the email address used for the purchase of the VSA software.



5. Go back to the window with Activation Codes open under Step 5 of **Software Activation preparations** section.
6. Copy your plugin activation code and then in the "**Activation Code for product Registration**" parameter paste your activation code.



7. Click the "OK" button
8. If the activation is successful the diamond trending system will be green and red, and the SOS and SOW indicators will show on the chart.

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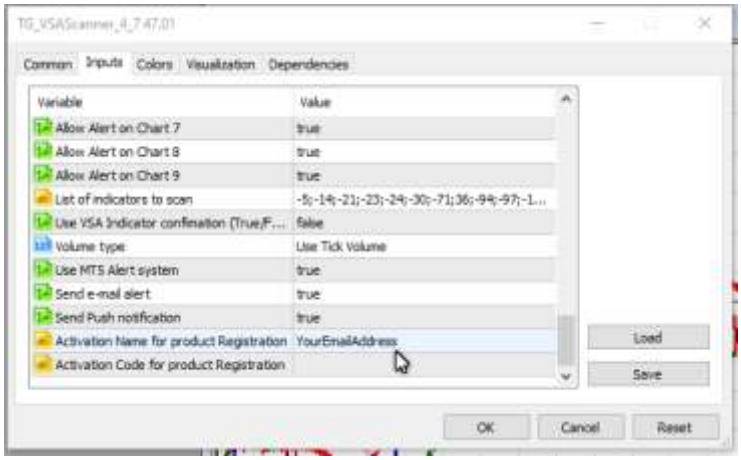
If the diamond trend colors are all gray and there are no SOS and SOW VSA indicators, then the activation has not worked. Please check to make sure you have entered your email address correctly, your activation code correctly, there are no additional charts open with VSA indicators on them, and the "Allow DLL imports…" has been checked. If this has all been done and they are still not working, please open a support ticket.

9. If an activation of VSA Scanner is not required, please skip to step 11 in the "**VSA Sequential Scanner Activation**" section below and use the TradeGuider47 template.

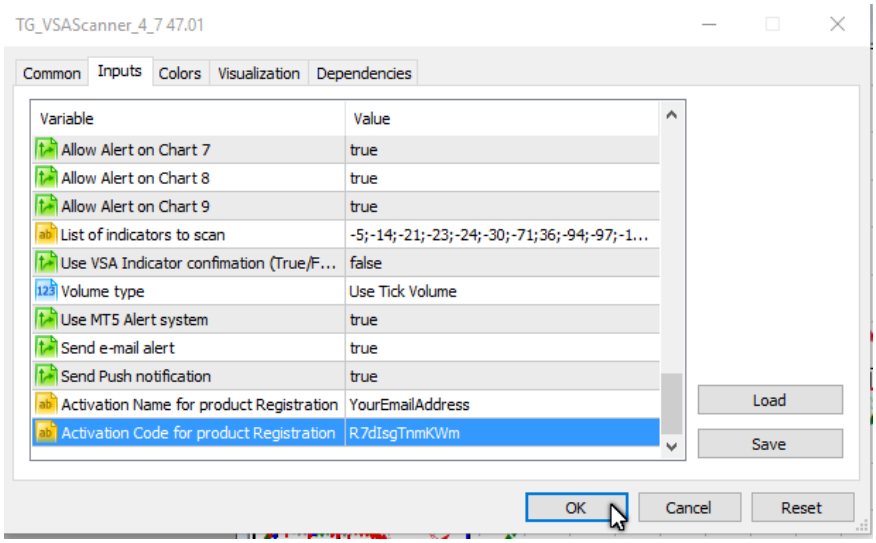
VSA Sequential Scanner Activation

1. If the activation of VSA Plug-In was successful and you also have the VSA Scanner with your purchase, perform an actions described in the Step 1 of **VSA Plug-In activation** section.

2. In the Navigator window of MT5, left click and hold then drag the **TG_VSAScanner_4_7** indicator to the chart.
3. In the Dependencies tab make sure that the "Allow DLL imports…" box is checked.
4. Select the Inputs tab and scroll to the **ActivationName** parameter.
5. Enter the email address that you used to purchase the VSA software.

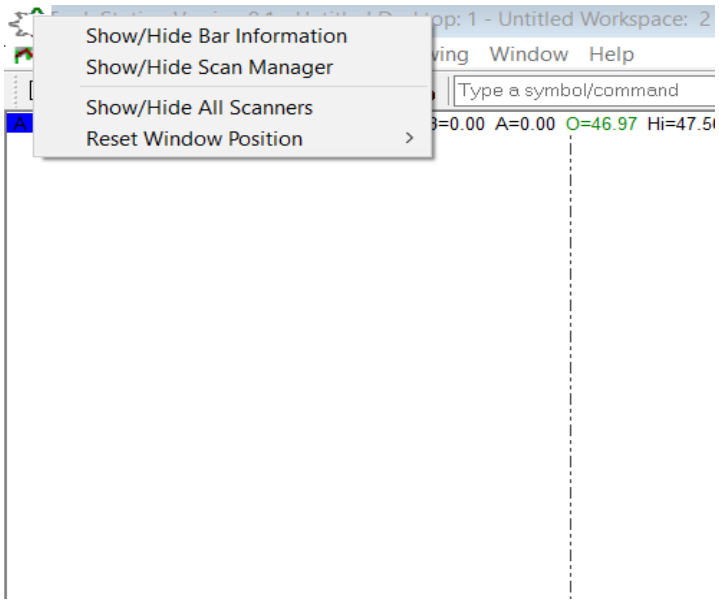


6. Go back to the window with Activation Codes open under Step 5 of **Software Activation preparations** section.
7. Copy your "**Scanner activation code"** and paste it into the Activation Code for product Registration parameter.

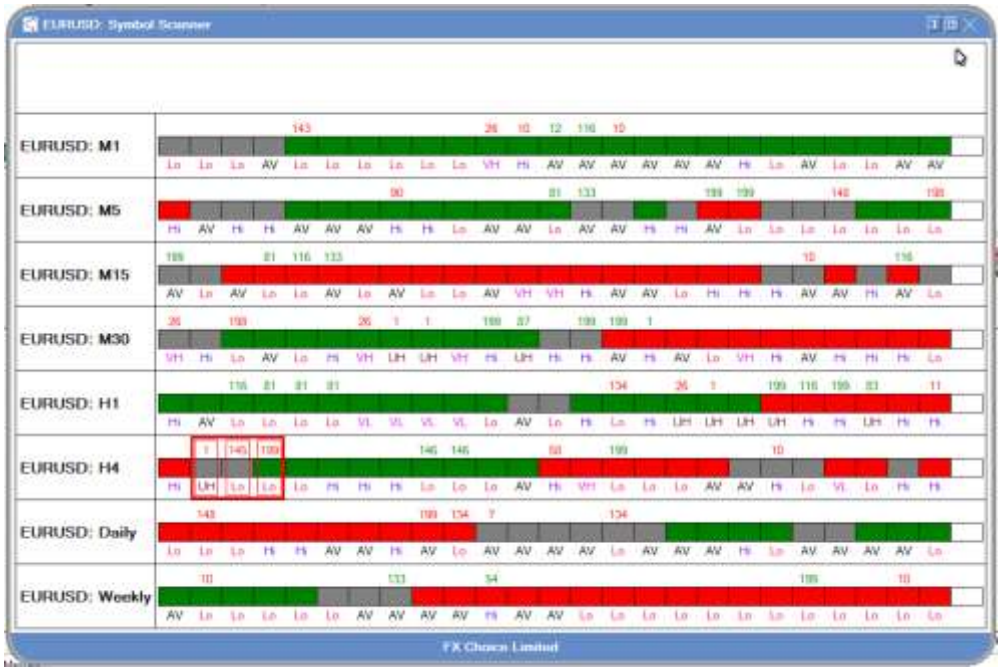


8. Click the "OK" button.
9. This may take up to a minute to complete the activation. In the left top corner of your main monitor you should be able to see TradeGuider floating menu Icon.

Move mouse cursor into the area of this icon and right click mouse button. Then select “Show/Hide Scan Manager” item



10. If activation has been successful, you will be able to see Scanner Window with colored “boxes” and VSA indicator numbers above it.



In case all boxes are grey or you can see an empty scanner, the activation has not worked. Please check to make sure you have entered your email address correctly, your activation code correctly, there are no additional charts open with VSA indicators on them, and the “Allow DLL imports…” has been checked. If this has all been done and they are still not working, please open a support ticket.

11. After Successful activation of VSA Plug-In/Scanner, Activation Names and Activation Codes are not required anymore and can be deleted from this chart. You may now apply all of the VSA indicators to the Chart.

    We have included a couple of templates for your convenience to help you get started.

    - Right click in the empty chart area.
    - Select Templates and a sub window will open.
    - Select one of the included TradeGuider47 templates.
    - The TradeGuider47 template does not include any scanners.
    - The other TradeGuider47 templates (TradeGuider47_Scanner, TradeGuider47_SuperScalper, and TradeGuider47_TopBot) all include the scanner with different time frames.

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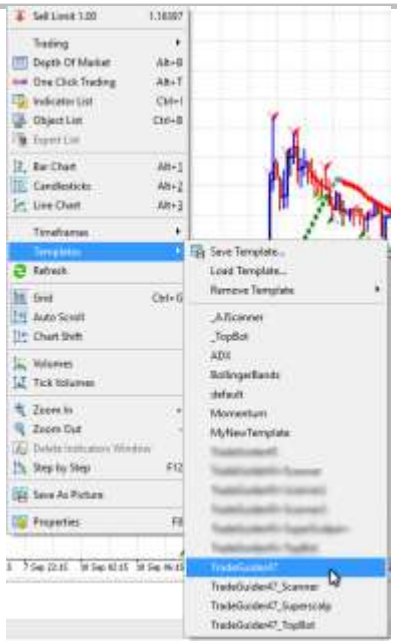
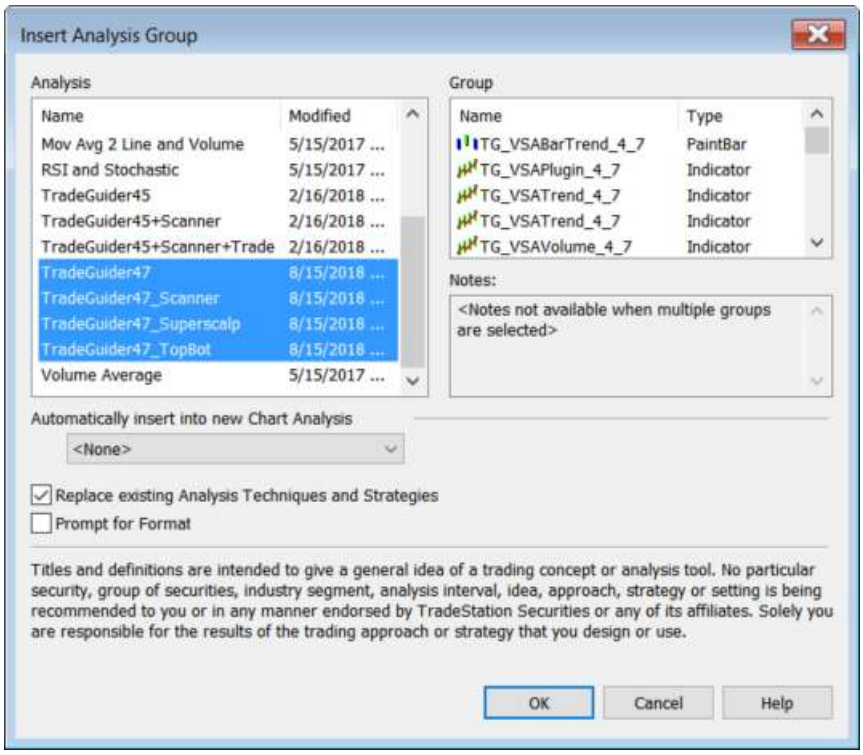


- Select the **TradeGuider47** (if you would like to add all of the VSA indicators excluding the VSA Scanner) or select one of the templates with the scanner (if you would like to set all VSA indicators including the VSA Scanner).



Important Note: You can only use the scanner once per symbol. Opening another chart of the same symbol and adding the VSA scanner to the same symbol will cause an error. Because of this, do not set any template that includes the scanner as the default template.

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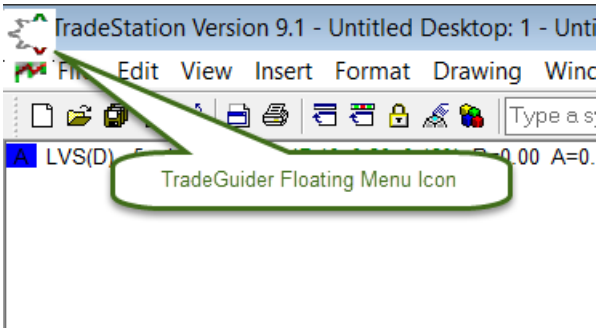
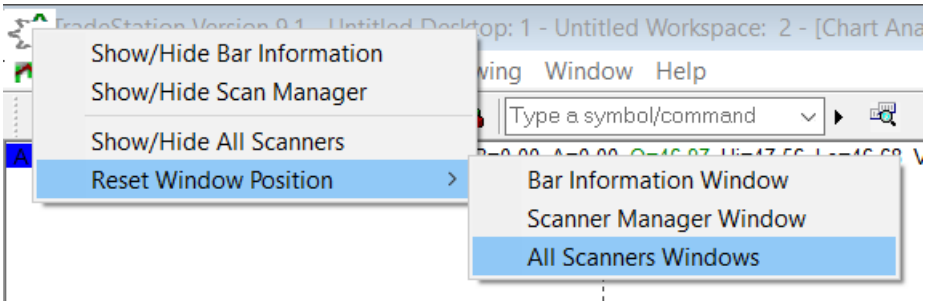
Elements of VSA Add-In software

TradeGuider Floating Menu Icon

The TradeGuider Floating Menu Icon is located in the left top corner of your main Monitor. You can freely move it later on around all your monitors. Its position will be saved when the last VSA Component will be removed from the Chart and restored on the next VSA Plug-In/Scanner startup



Right click on this Window will open context menu



- **Show/Hide Bar Information** – toggles Bar Information Window
- **Show/Hide Scan Manager** – toggles Scan Manager Window. This item will be grayed out if the activation of VSA Scanner was unsuccessful

  Note 5: If VSA Scanner is set for only one instrument, **Scanner Window** will be open instead of Scan Manager Window

- **Show/Hide All Scanners –** shows (if **Scanner Windows** are not visible) or hides (if Scanner Windows are visible) **Scanner Windows** for all instruments where VSA scanner is set. This item will be grayed out if the activation of VSA Scanner was unsuccessful

  Note 6: If the VSA Scanner is set for only one instrument, then one **Scanner Window** will open instead of the scan manager. There needs to be more than one symbol using the scanner to display the scan manager window.

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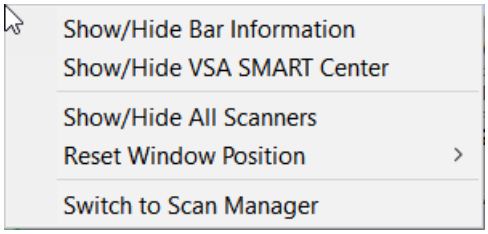
Note: After initial installation, all Scanner Windows will be shown in the default position on the main monitor one under other. You can resize and/or move them one by one to required places. Position and size of each window is saved after the move and will be restored on the next startup of VSA Plug-In/Scanner accordingly.

- **Reset Window Position** – performs rearrangement of corresponding VSA Window (Bar Information, Scan Manager or All Scanners) into default position and default size on the main monitor.

If you have purchased VSA Smart Center Pro or one of the Strategies, the floating icon menu will look differently. You will additionally see "Switch to VSA SMART Center".



See VSA Smart Center Pro Operational Manual for the details

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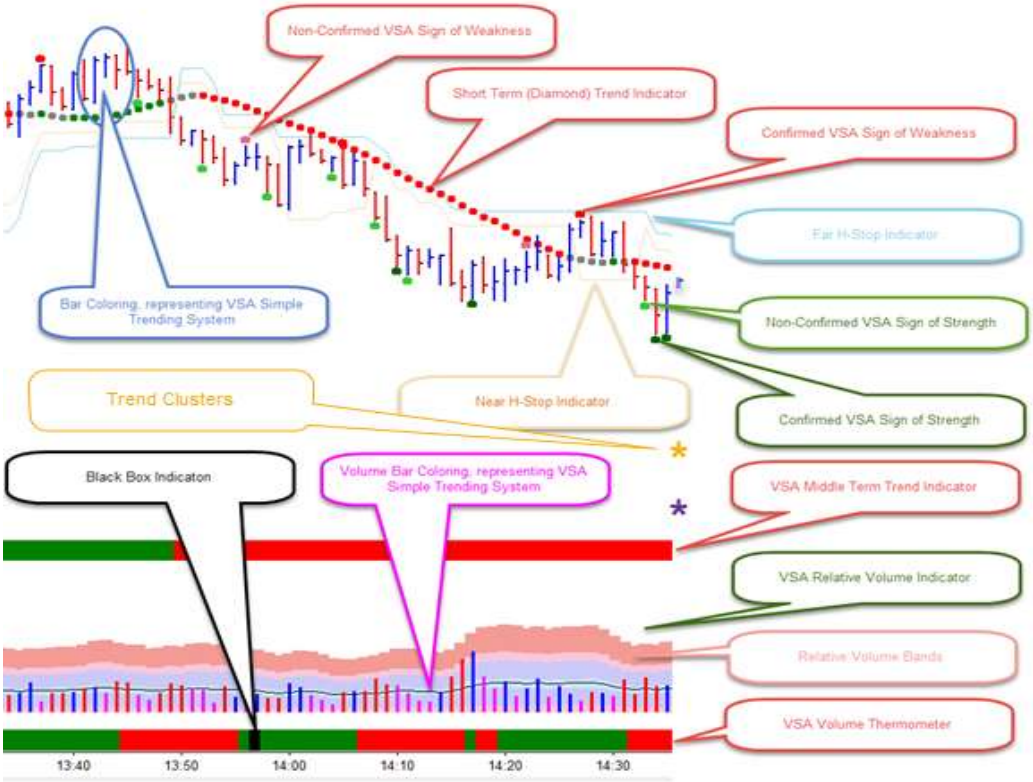
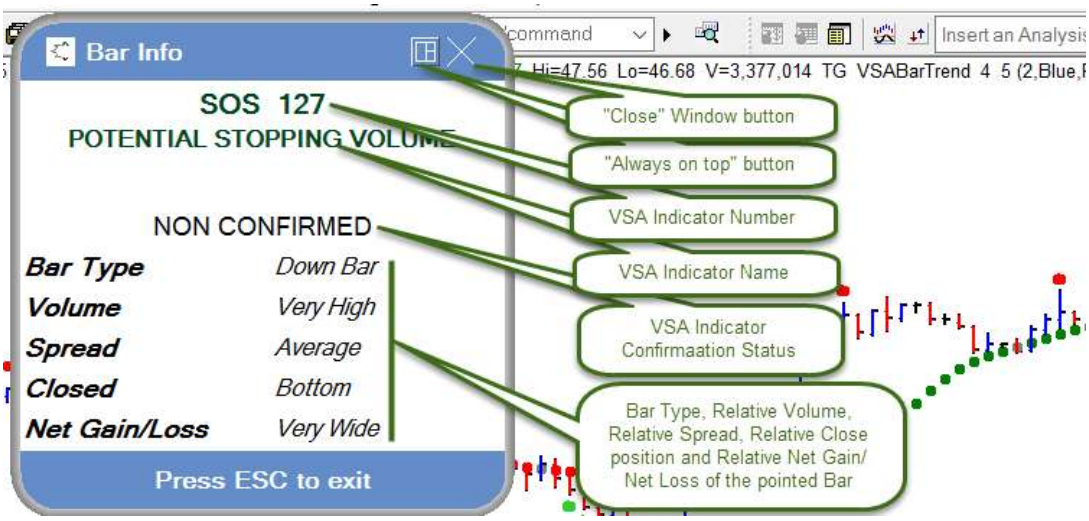
Elements of TradeGuider47 Template

All elements of TradeGuider47 Analysis Group are presented on the picture below.



Bar Information Window

The Bar Information Window provides the possibility to see specific VSA parameters of every bar. You can open this window by right click on the Floating Menu Icon and selecting "Show Bar Information" in the context menu. Push and hold "**Alt**" button, than left click on the bar to see its VSA parameters as well as information about VSA Indicator (if presented on the bar). Description of main window elements is shown in the picture below



Note: "Always on Top" button has the same functionality on all VSA Window Elements. In the release state (as shown on the picture) VSA window will be closed if another application than MT5 will become active. After re-activation of any MT5 windows, VSA Window Element will be shown up again. In the pushed state, VSA Window Element will always stay on top of any other window irrespectively will MT5 windows be active or not.

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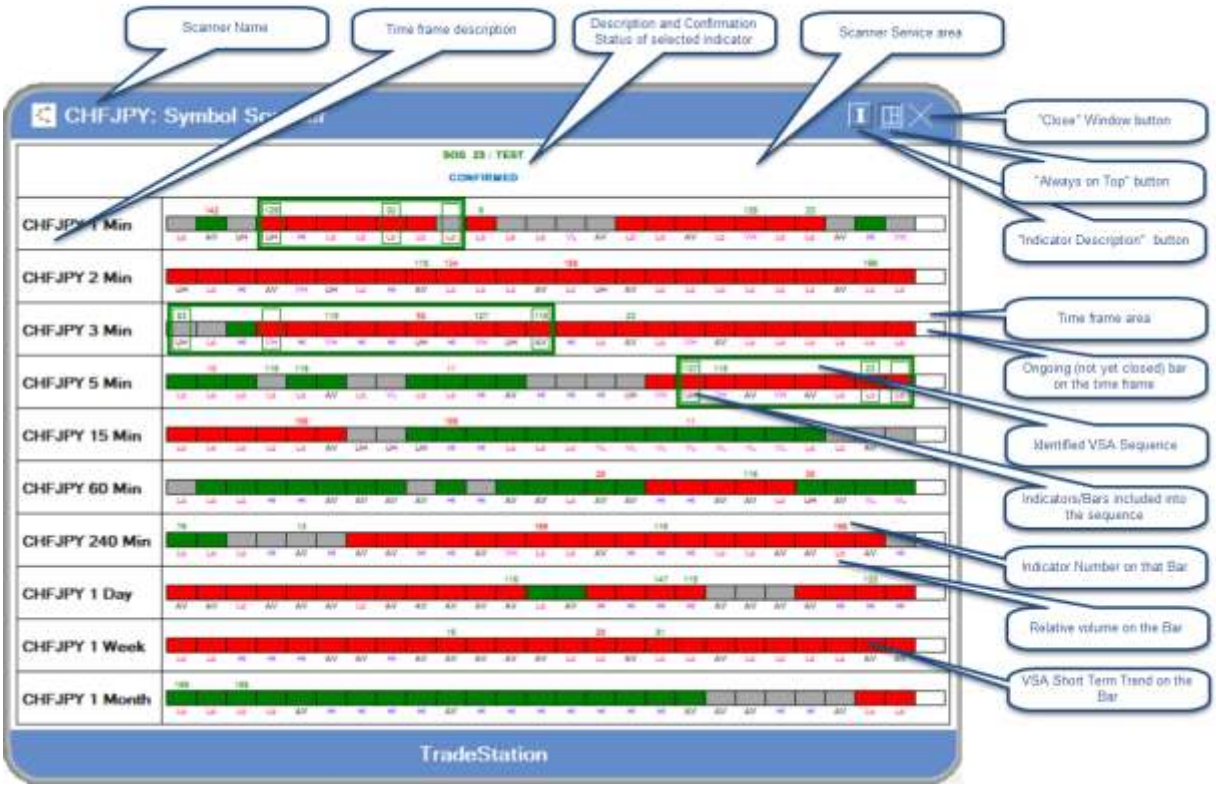
Indicator Description Window

The “Indicator Information” window provides the detailed description of the VSA Indicator. Left mouse click on any of the green SOS or any of the red SOW, VSA indicators to open the description window.

Scanner Window

The Scanner window can represent up to 10 different time frames scanned simultaneously by the VSA Scanner. The timeframes are set in the scanner settings. You can open this window from the Scan Manager (see under Scan Manager Window description). All of the elements are explained on the picture below.



Note 9: "Indicator Description" button switches on and off the description of selected indicator by your mouse in the Scanner service area.

Note 10: When "Indicator Description" button is released, clicking in a zone of VSA indicator of the time frame area will open Indicator Description Window.

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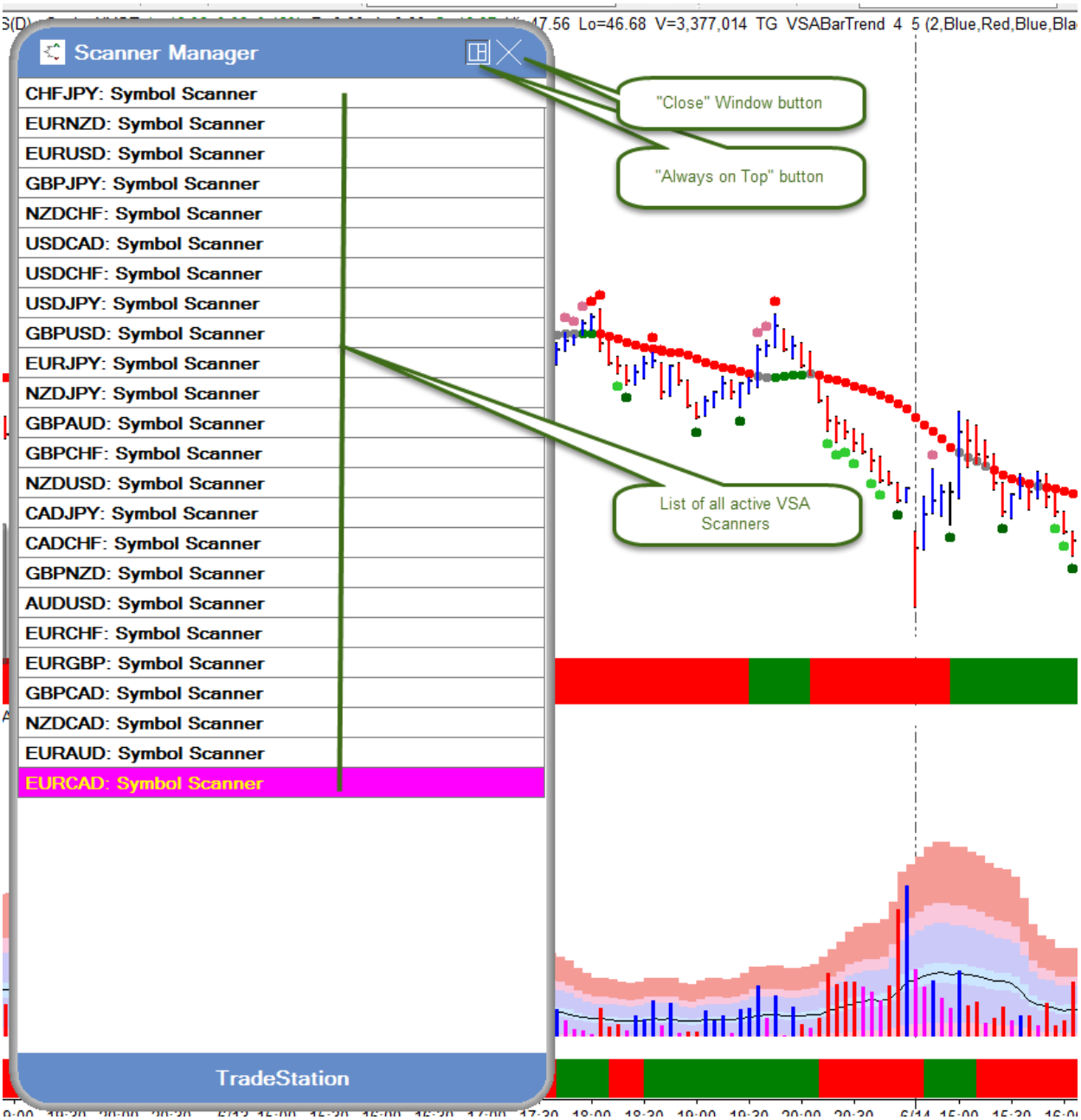
Scan Manager Window

The Scan Manager Window provides the list of all VSA Scanners currently installed and active on the MT5 Charts. You can open this window by right-clicking on the floating menu icon and selecting “Show/Hide Scan Manager” in the context menu.

When you left mouse double-click on one of the symbols in the scan manager window, this will open the scanner window of that symbol.



Note 11: as of now, the maximal number of simultaneously activated VSA Scanners is limited to **25**.

VSA Plug-In components setup parameters description

Indicator TG_VSAPlugin_4_7

Parameter Name	Default value	Description	Possible values
Language	0	Sets the language used by VSA Plug-In and VSA Scanner to represent informative text	0 – English 1 – Polish 2 – Russian, 4 – Spanish 8 – Bulgarian
UseVSAIndicatorConfirmation	true	Sets the usage of VSA Indicator confirmation mechanism. If this parameter is set to false all the indicators will be shown up on the Chart as Confirmed	false – VSA Confirmation is not in use true – VSA Confirmation is in use
ShowVSAIndicators	true	Is used to hide or to show VSA indicators below and above the price bar on the Chart	true – show VSA indicators on the Chart false – do not show VSA indicators on the Chart
ShowDiamondTrend	true	Is used to hide or to show VSA Diamond (Short Term) trend indicator on the Chart	true – show an indicator false – do not show an indicator
ShowHStops	false	Is used to hide or to show Near and Far Stop lines (called H-stops) on the Chart	true – show lines false – do not show lines
ShowTrendClusters	true	Is used to show or hide VSA Trend Clusters	true – show Trend Clusters false – do not show Trend Clusters
ShowUnconfirmedVSAIndicators	true	If UseVSAIndicatorConfirmation is false, value of this parameter is ignored. If UseVSAIndicatorConfirmation is true, this parameter defines sensitivity of displayed indicators	true – show Confirmed and Non-Confirmed indicators (in different colors) false – show only Confirmed indicators

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NearStopRate	2.0	Defines an indent from the current price of Near H Stop line. **We do not recommend modifying this parameter**	-
FarStopRate	2.5	Defines an indent from the current price of Far H Stop line. **We do not recommend modifying this parameter**	-
UseTickVolume	false	In some cases, it is required to select the type of used volume: real (exchange) volume or tick (number of trades) volume For some instruments (like FOREX Currencies) VSA Add-in automatically defines the type.	True – use tick (number of trades) volume false – use real (exchange) volume
IndicatorStandOff	5	Defines the distance between the top/bottom of the bar and VSA indicator	0-500
TrendClusterWidth	25	Defines the width of Trend Cluster	1 – 50
ColorOfConfirmedSOSIndicator	Rgb (0,100,0)	Defines color of Confirmed Sign of Strength on the Chart	Any available in MT5 color or RGB representation
ColorOfNoNConfirmedSOSIndicator	Rgb (50,205,50)	Defines color of Non-Confirmed Sign of Strength on the Chart	Any available in MT5 color or RGB representation
ColorOfConfirmedSOWIndicator	Rgb (255,0,0)	Defines color of Confirmed Sign of Weakness on the Chart	Any available in MT5 color or RGB representation
ColorOfNoNConfirmedSOWIndicator(	Rgb (219,112,147)	Defines color of Non-Confirmed Sign of Weakness on the Chart	Any available in MT5 color or RGB representation
ColorOfDiamondsInUpTrend	DarkGreen	Defines color of Up dots of Short Term (Diamond) Trend indicator on the Chart	Any available in MT5 color or RGB representation
ColorOfDiamondsInUnknTrend	Rgb(128,128,128)	Defines color of Neutral dots of Short Term (Diamond) Trend indicator on the Chart	Any available in MT5 color or RGB representation
ColorOfDiamondsInDnTrend	Red	Defines color of Down dots of Short Term (Diamond) Trend indicator on the Chart	Any available in MT5 color or RGB representation
ColorOfNearHStop	Rgb (246,222,179)	Defines color of Near H-Stop line on the Chart	Any available in MT5 color or RGB representation
ColorOfFarHStop	Rgb (135,206,235)	Defines color of Far H-Stop line on the Chart	Any available in MT5 color or RGB representation

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ColorOfUltraStrongTC	Rgb (148,0,211)	There are three types of Trend Clusters: Ultra Strong Trend Cluster, representing very significant support/resistance level, Strong Trend Cluster and Normal Trend Cluster. This parameter represents the color of Ultra Strong Trend Cluster	Any available in MT5 color or RGB representation
ColorOfStrongTC	Rgb (250,160,122)	There are three types of Trend Clusters: Ultra Strong Trend Cluster, Strong Trend Cluster, representing significant support/resistance level, and Normal Trend Cluster. This parameter represents the color of Strong Trend Cluster	Any available in MT5 color or RGB representation
ColorOfNormalTC	Rgb (211,211,211)	There are three types of Trend Clusters: Ultra Strong Trend Cluster, Strong Trend Cluster and Normal Trend Cluster, representing minor support/resistance level. This parameter represents the color of Normal Trend Cluster	Any available in MT5 color or RGB representation
ActivationName	“”	Is used to activate VSA Plug-In software	See the section **VSA Software Activation** for more details
ActivationCode	“”	Is used to activate VSA Plug-In software	See the section **VSA Software Activation** for more details
PlugInOperationalMode	0	This parameter is reserved for the future use	0

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Indicator TG_VSABarTrend_4_7

Parameter Name	Default value	Description	Possible values
TypeOfDisplayedInformation	2	Sets the language used by VSA Plug-In and VSA Scanner to represent informative text	0 – No Bar Coloring 1 – Middle Term Trend 2 – VSA Simple Trending System
ColorOfMiddleTermUpTrend	Blue	Defines color of the Bar in case Middle Term trend is Up	Any available in MT5 color or RGB representation
ColorOfMiddleTermDnTrend	Red	Defines color of the Bar in case Middle Term trend is Down	Any available in MT5 color or RGB representation
ColorOfUpBarInSimpleTS	Blue	Defines color of the Bar in case of Up Bar in VSA Simple Trending System	Any available in MT5 color or RGB representation
ColorOfLevelBarInSimpleTS	Black	Defines color of the Bar in case of Level Bar in VSA Simple Trending System	Any available in MT5 color or RGB representation
ColorOfDownBarInSimpleTS	Red	Defines color of the Bar in case of Down Bar in VSA Simple Trending System	Any available in MT5 color or RGB representation

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Indicator TG_VSATrend_4_7

Parameter Name	Default value	Description	Possible values
TypeOfDisplayedInformation	1	Sets the type of the indicator to be displayed in a MT5 Sub-window	1 – Middle Term Trend 2 – VSA Simple Trending System 3 – VSA Volume thermometer
ColorOfMiddleTermUpTrend	DarkGreen	Defines color of the Bar in case Middle Term trend is Up	Any available in MT5 color or RGB representation
ColorOfMiddleTermDnTrend	Red	Defines color of the Bar in case Middle Term trend is Down	Any available in MT5 color or RGB representation
ColorOfUpBarInSimpleTS	Blue	Defines color of the Bar in case of Up Bar in VSA Simple Trending System	Any available in MT5 color or RGB representation
ColorOfLevelBarInSimpleTS	Black	Defines color of the Bar in case of Level Bar in VSA Simple Trending System	Any available in MT5 color or RGB representation
ColorOfDownBarInSimpleTS	Red	Defines color of the Bar in case of Down Bar in VSA Simple Trending System	Any available in MT5 color or RGB representation
ColorOfUpVolumeInThermometer	DarkGreen	Defines color of Bullish volume when Volume thermometer indicator is selected	Any available in MT5 color or RGB representation
ColorOfEqVolumeInThermometer	Black	Defines color of “Black Box” indication (Supply is equal to the Demand) when Volume thermometer indicator is selected	Any available in MT5 color or RGB representation
ColorOfDnVolumeInThermometer	Red	Defines color of Bearish volume when Volume thermometer indicator is selected	Any available in MT5 color or RGB representation

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Indicator TG_VSAVolume_4_7

Parameter Name	Default value	Description	Possible values
ShowBands_P	true	Sets the usage of six Volume bands	true – show bands false – do not show bands
ShowMA_P	true	Sets the usage of Volume Moving Average line	true – show the line false – do not show the line
ShowDescVolume_P	true	Sets the usage of Descending Volume Bar (Bar with the volume less than the volume on two previous bars)	true – to color descending bar false – do not color descending bar
UseTickVolume	false	In some cases, it is required to select the type of used volume: real (exchange) volume or tick (number of trades) volume For some instruments (like FOREX Currencies) VSA Add-in automatically defines the type.	true – use tick (number of trades) volume false – use real (exchange) volume
ColorUpDnVolume_P	true	Defines coloring of the volume bar based on the type of the price bar	true – to color volume bar based on the type of the price bar false – do not color volume bar based on the type of the price bar
ColorOfUpBar	Blue	Color of the volume bar when the price bar is an Up Bar	Any available in MT5 color or RGB representation
ColorOfDnBar	Red	Color of the volume bar when the price bar is a Down Bar	Any available in MT5 color or RGB representation
ColorOfLevelBar	Black	Color of the volume bar when the price bar is a Level Bar	Any available in MT5 color or RGB representation
ColorOfDecsendingVol	Magenta	Color of the volume bar when the volume on the price bar is less than the volume on two previous bars	Any available in MT5 color or RGB representation

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VSA Sequential Scanner setup parameters description

Indicator TG_VSAScanner_4_7

Parameter Name	Default value	Description	Possible values
Language	0	Sets the language used by VSA Plug-In and VSA Scanner to represent informative text	0 - English 1 - Polish 2 - Russian, 4 - Spanish 8 - Bulgarian
ScannerName	””	Defines unique name of the Scanner which will be visible in the Scan Manager Window. If this parameter is not set (empty), scanner name is formed as <Instrument> + “ : Symbol Scanner”. Attempt to set second VSA Scanner to the Chart where one has already been set previously, will cause an error. In some exceptional cases, you may still need to set several scanners for the same instrument. To do it, you will need to set its name in this parameter.	Any string up to 30 chars
CustomSequenceFileName	“CustomSetus.vsa”	The name of the file where User can define his own sequences	Any valid file name
PeriodTypeChart_0 to PeriodTypeChart_9		Defines the types of the Charts to be scanned for each from 10 available scanner’s time frames	“” – Time Frame is not in use “I” – Intraday (Minutes) Chart “Seconds” or “Sec” – seconds Chart "Minutes" or “Min” – Minutes Chart “Daily ” or “D” – Daily Char “Weekly” or “W” – Weekly Chart “Monthly” or “M” – Monthly Chart

ChartPeriod_0 to ChartPeriod_9		Defines Chart period of the Charts to be scanned for each from 10 available scanner's time frames	Any available in MT5 interval value for Intraday Charts. 1 – for Daily, Weekly and Monthly Charts
DaysToLoadChart_0 to DaysToLoadChart_9		Defines the Number of Days to be loaded into each from 10 available Charts for the further scanning. Do not put too many Days. It may slow down the calculations.	0 – VSA Scanner will calculate and load required number of days or Any reasonable and accessible by the price Chart value
NumOfBarsToDisplay	25	Number of Bars back used by the VSA Scanner to find VSA Sequences. It is also the number of bars visible in the Scanner Window for each scanned time frame	20 - 40
ExcludeInternallyDefinedSeqs	false	Switches on and off scanning of internally predefined (built-in) VSA Sequences.	true – Buit-in sequences are not scanned false – Buit-in sequences are scanned
InterruptedSequence	true	VSA Sequence may consist of several VSA indicators. This parameter defines possibility to have other VSA indicators, not included into the sequence, between VSA indicators forming the Sequence.	true – other indicators are allowed false – other indicators are not allowed
UltraHighVolumeColor	RGB (128,0,64)	Defines color of Ultra High Volume (UH) text displayed in the Scanner Window	Any available in MT5 color or RGB representation
VeryHighVolumeColor	RGB (128,0,128)	Defines color of Very High Volume (VH) text displayed in the Scanner Window	Any available in MT5 color or RGB representation
HighVolumeColor	RGB (128,0,255)	Defines color of Very High Volume (Hi) text displayed in the Scanner Window	Any available in MT5 color or RGB representation
AverageVolumeColor	RGB (0,0,0)	Defines color of Average Volume (AV) text displayed in the Scanner Window	Any available in MT5 color or RGB representation
LowVolumeColor	RGB (255,0,100)	Defines color of Low Volume (Lo) text displayed in the Scanner Window	Any available in MT5 color or RGB representation
VeryLowVolumeColor	RGB (255,0,255)	Defines color of Very Low Volume (VL) text displayed in the Scanner Window	Any available in MT5 color or RGB representation

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OngoingBarColor	RGB (255,255,255)	Defines color of the box for ongoing (not yet closed) bar in the Scanner Window	Any available in MT5 color or RGB representation
SOSVSAIndicatorColor	Darkgreen	Defines color of Sigh Of Strength signal number displayed in the Scanner Window	Any available in MT5 color or RGB representation
SOWVSAIndicatorColor	Red	Defines color of Sigh Of Weakness signal number displayed in the Scanner Window	Any available in MT5 color or RGB representation
DotTrendUpDirColor	Darkgreen	Defines color of the box in the Scanner Window representing the price bar on which Short Term Trend is Up	Any available in MT5 color or RGB representation
DotTrendNeutralDirColor	RGB (168,168,168)	Defines color of the box in the Scanner Window representing the price bar on which Short Term Trend is Neutral	Any available in MT5 color or RGB representation
DotTrendDnDirColor	Red	Defines color of the box in the Scanner Window representing the price bar on which Short Term Trend is Down	Any available in MT5 color or RGB representation
LongSetupHighlightColor	Darkgreen	Defines color of the rectangle in the Scanner Window, displayed when Long VSA Sequence is found on the particular time frame. Rectangle will be drawn around all indicators/bars included into VSA Sequence	Any available in MT5 color or RGB representation
ShortSetupHighlightColor	Red	Defines color of the rectangle in the Scanner Window, displayed when Short VSA Sequence is found on the particular time frame. Rectangle will be drawn around all indicators/bars included into VSA Sequence	Any available in MT5 color or RGB representation
AllowAlertOnChart_0 to AllowAlertOnChart_9	true	Defines necessity to send an alert message to MT5 alert Manager for the particular Chart from any 10 of available scanner's time frames	true – Alert to be sent false – Alert will not be sent
ListOfIndicatorsToScan	"-5;-14;-21;-23;-24;-30;-71;36;-94;-97;-108;-126;57;78;79;94;97;99;132;"	List of single indicators to be scanned by VSA Scanner.	Any existing VSA indicator number
UseIndicatorConfirmation	true	Sets the usage of VSA Indicator confirmation mechanism. If this parameter is set, only Confirmed VSA indicators will be displayed in the Scanner Window as well as only confirmed VSA indicators will be included into VSA Sequences	false – VSA Confirmation is not in use true - VSA Confirmation is in use

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UseTickVolume	false	In some cases, it is required to select the type of used volume: real (exchange) volume or tick (number of trades) volume For some instruments (like FOREX Currencies) VSA Add-in automatically defines the type.	true – use tick (number of trades) volume false – use real (exchange) volume
ActivationName	“”	Is used to activate VSA Scanner software	See the section **VSA Software Activation** for more details
ActivationCode	“”	Is used to activate VSA Scanner software	See the section **VSA Software Activation** for more details
ScannerOperationalMode	0	This parameter is reserved for the future use	0

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Setting up the Email in MT5

You can set up an email in MT5 to receive your alerts via email. We have found that the free GMX email service works best for the MT4 and MT5 platforms. These instructions will help you get set up with GMX and add it to the MT5 platform.

Step 1 - Set up a GMX email account.

1. Go to https://www.gmx.com/
2. Click the Sign Up button.
3. Fill in the information and create your GMX account.
4. Click the "Email Settings" link on the left.
5. Select "POP3 & IMAP" from the settings menu.
6. Check the box labeled "Enable access to this account via POP3 and IMAP".
7. Click the Save button.
8. You may be prompted to enter a security code on the screen. Enter the code and click the continue button.
9. When you successfully enter the code you will receive a message that the settings have been saved.

Step 2 - Configure email in MT5

1. Open your MT5 software.
2. Click Tools on the menu.
3. Choose Options.
4. Select the Email tab.
5. Check the "Enable" box.
6. In the "SMTP server:" field enter mail.gmx.com:587
7. In the "SMTP login:" field enter your GMX email address.
8. In the "SMTP password:" field enter your GMX email password.
9. In the "From:" field enter your GMX email address.
10. In the "To:" field enter the email address you would like to send the alert emails to.
11. Click the "Test" button.
12. A window will pop up notifying you to check the Journal, click OK to close this window.
13. Click OK.
14. Go into the Toolbox window in MT5. If the terminal is not open, press the Ctrl + T keys or click View on the menu and choose Terminal.
15. Choose the Journal tab and read the message to see if the email was sent. If you receive an error about the email in the journal, please go back to the email settings and review the information that you have entered. Also, check your GMX account from step 1 to make sure that the POP3 is enabled.

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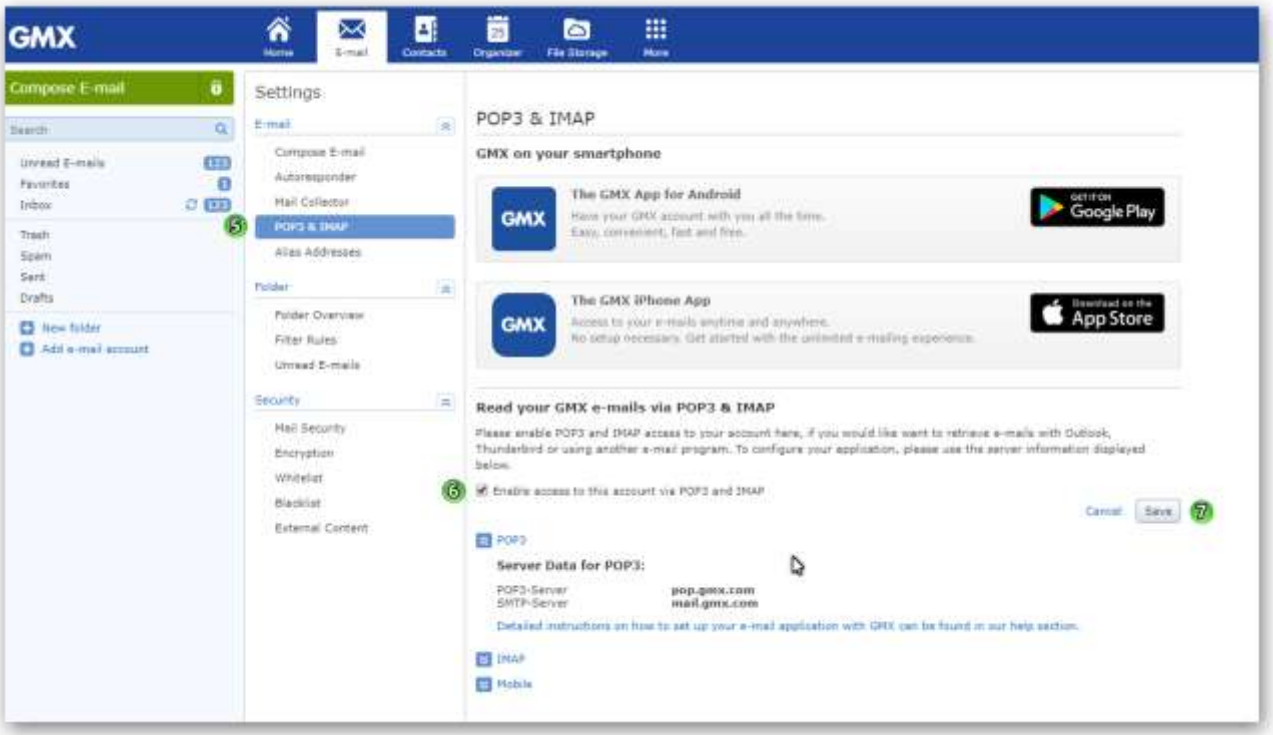
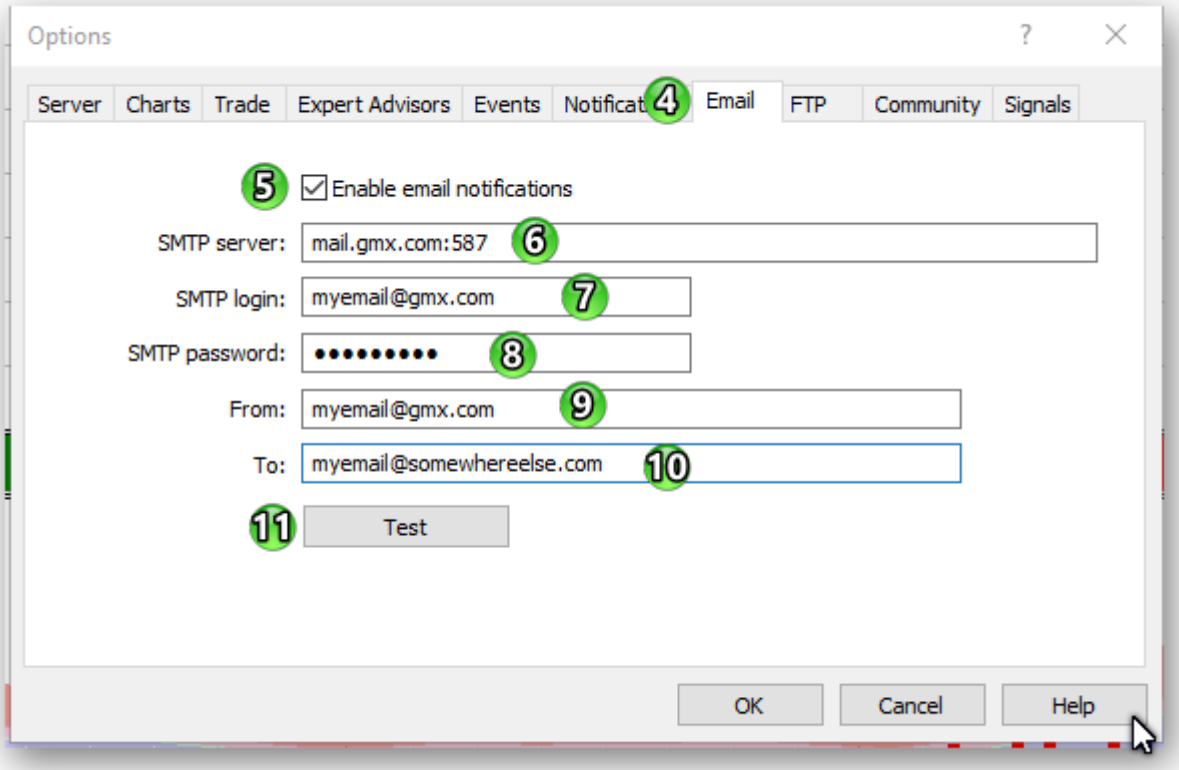

GMX
Compose E-mail
Settings
POP3 & IMAP
GMX on your smartphone
The GMX App for Android
Google Play
The GMX iPhone App
App Store
Read your GMX e-mails via POP3 & IMAP
Enable access to this account via POP3 and IMAP
Server Data for POP3:
POP3-Server pop.gmx.com
SMTP-Server mail.gmx.com
IMAP
Mobile

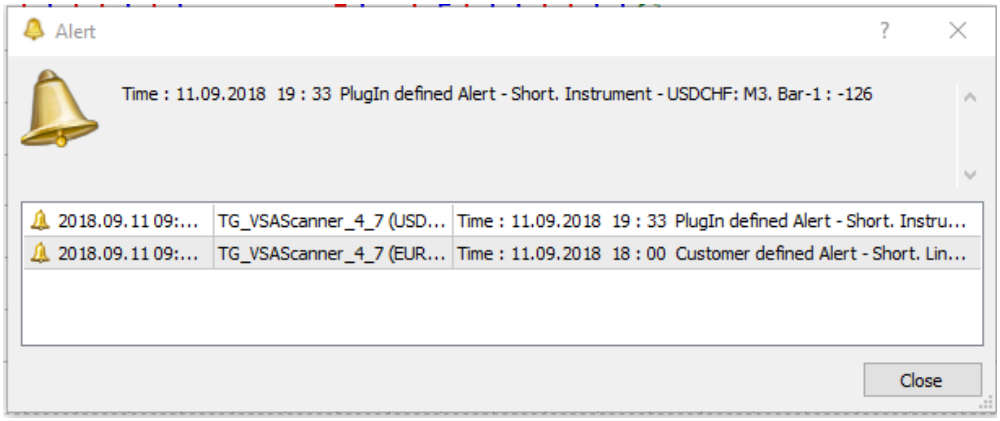

Options
Server
Charts
Trade
Expert Advisors
Events
Email
FTP
Community
Signals
Enable email notifications
SMTP server: mail.gmx.com:587
SMTP login: myemail@gmx.com
SMTP password: ••••••••••
From: myemail@gmx.com
To: myemail@somewhereelse.com
Test
OK
Cancel
Help

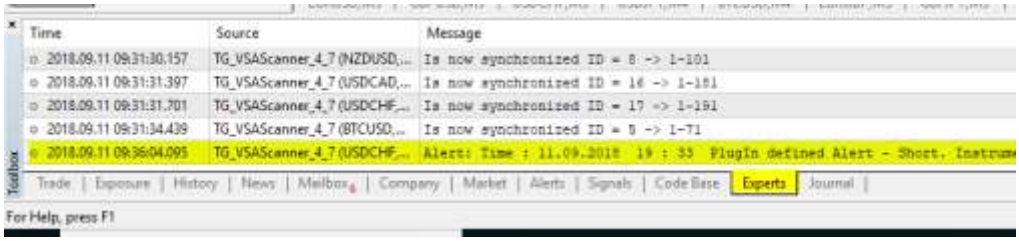
VSA Scanner Alerts

The VSA Scanner uses the built in alert system of the MT5 platform to provide alerts for identified VSA Sequences and the indicators in the “List of indicators to scan” parameter of the VSA Scanner settings.

By default the VSA Alerts will pop open the MT5 alert dialog window, there is nothing needed to configure this. This window will stay open until you close it. Once the alert window is closed in MT5, it will not open again until another alert is triggered.

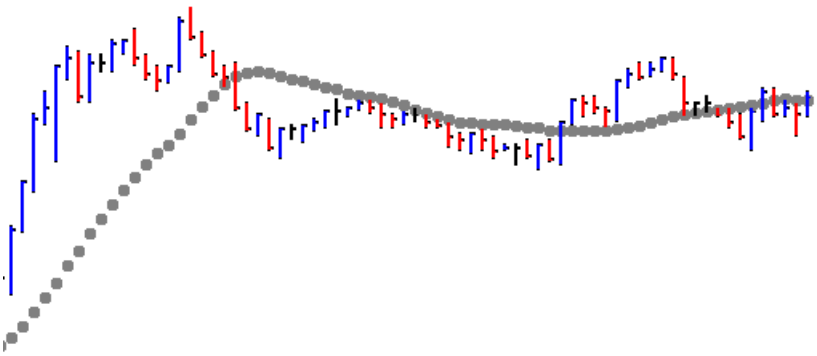
You will also find the alerts are shown in the Toolbox Experts tab. Use <Ctrl>+T to open the Toolbox at the bottom of MT5 and then change to the Experts tab.



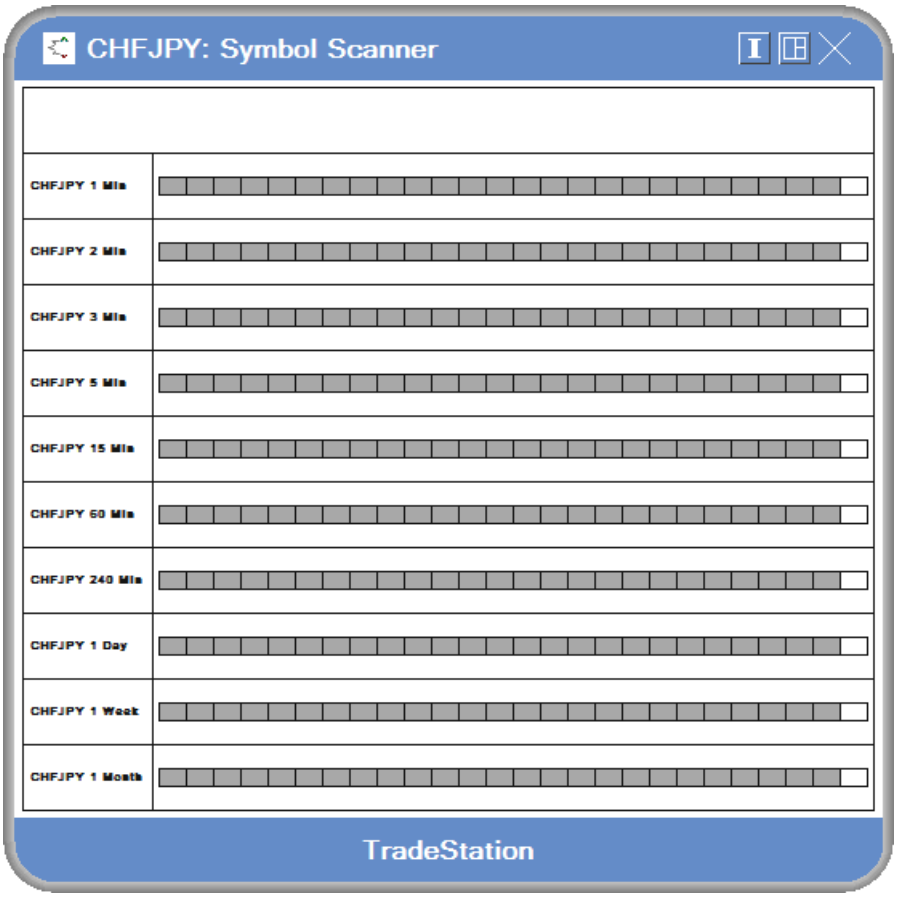


Activation Reset

In some cases, components of VSA Add-In for MT5 activation may fail. On the VSA Plug-In, you can recognize it when the dots of the short term trend (Diamond trend) indicator are gray in color and there are no green SOS or red SOW indicators.



On the VSA Scanner, you can recognize this when the bars of the timeframe are gray in color.



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To correct this, you will need to reset the VSA Plug-In and or VSA Scanner activation on your computer. To perform it, follow the next steps:

- Open the Microsoft Windows file explorer and go to the directory where main VSA components have been installed (Section "VSA Software installation" item 8). The default location is "**C:\TradeGuider47**".
- Open the "**Configuration**" folder.
- In this directory find and delete the **config47_1101.db** and the **config47_1103.db** files.
- Create a new profile. Click File on the menu, then choose Profiles, choose Save As, and name your new profile. I suggest naming it Activation Reset.
- Give this a minute to save, then close all open charts.
- Open one new chart, and then remove all indicators from this new chart so that it is an empty chart with only price bars.
- Now perform the steps to activate the software as described in the section "VSA Software Activation" above.

  This will reset your activation. If you follow these steps and it does not work, then it maybe a different issue that requires assistance from tech support. Please contact tech support and open a ticket. Here is a link to create a new ticket:

  https://tradeguider.freshdesk.com/support/tickets/new

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Adding more Symbols to the VSA Scanner

It's easy to add or remove a symbol to the scan manager.

1. Open a new chart.
2. Add a template that contains the scanner. We have included a few templates with the scanner, TradeGuider47_Scanner, TradeGuider47_TopBot, TradeGuider47_SuperScalp. You may also use any template that you have created that uses the scanner.
3. Allow this to load for a minute.

This will add the new symbol to the scan manager window. Optionally if you have one of the strategy packages or Smart Center Pro, it will also add this symbol to the VSA Smart Center window. Remember, you may scan up to 25 symbols.

To remove a symbol from the scan manager do the following simply close the chart that you no longer wish to scan and it will be removed from the scanner.

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Best Practices

Here are a few tips to get the most out of your VSA software in the MT5 trading platform.

1. Change the Max number of bars to load on the chart to 20000, or less, if you find that it is taking too long to load the charts. See the following solution for more details https://tradeguider.freshdesk.com/solution/articles/33000219963-mt5-chart-settings
2. On charts that you are using the scanner, change the chart to the highest time frame that you plan on using before you add the scanner.
3. Do not to change the time frame of charts that have the scanner on them. Once you have the scanner set on a chart and it has loaded, leave it. You may open a different chart and add the other VSA indicators, not the scanner, or use the TradeGuider47 template. Then change the time frame on that chart without the scanner.
4. You should not have the scanner running more than one time per symbol. For example, if you open the GBPUSD H4 chart and add the scanner, do not open a GBPUSD M1 chart and add the scanner to that chart. The time frames set in the scanner settings on the GBPUSD H4 chart, will all be downloaded from that chart.

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VSA Smart Center

The VSA Smart Center (hereafter SCP) is an optional add-on to the VSA Add-Ins (hereafter - VSA Add-In) software. The SCP option independently scans multiple number of trading instruments (up to 25 with maximum 10 timeframes each). This optional add-on may be in the form of a strategy package (Sharp Shooter, Super Scalper, Prism, or TopBot) that offer limited options, or the full Smart Center Pro that offers all of the available options to fully utilize the software in your own personal trading strategy.

The Smart Center tool provides visual as well as audio alerts in the event of Trend Alignment for a predefined number of instrument's and timeframes and/or when a VSA Principle is identified on any of the analyzed timeframes in the trend.

This rest of this document provides the necessary information about the functionality, capabilities, interfaces, as well as detail description of its setup parameters for SCP.

SCP is only available if you have opted to purchase it. For more information about the Strategies or SCP, you can visit the TradeGuider website at http://tradeguider.com/software.asp and choose the details link for option 2 or option 3.

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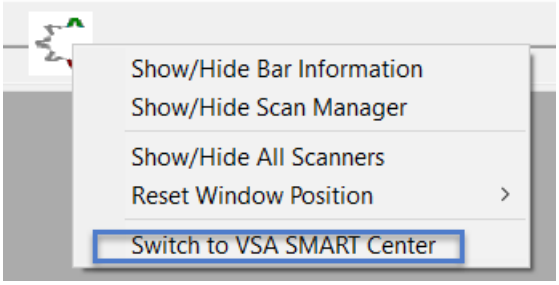
Getting Started

SMART Center PRO works alongside the other TradeGuider VSA software indicators. To use SCP, the VSA Add-Ins for corresponding Trading Platform must be installed and **authorized**, and the charts need to be set up with the VSA Scanner. If the VSA Plugin and the VSA Scanner are not activated, SCP will not function.

The type of Instruments you may scan will depend on the Broker that the Trading Platform is connected to, and the number of instruments are limited by the maximum number of VSA Scanners in TradeGuider 4.7 software. Currently the limitation is 25 concurrent unique scanners (with up to 10 Timeframes each).

Successful loading of the SCP module will be indicated by the presence in VSA floating context menu. You will see the "**Switch to VSA SMART Center**" when you right-click inside the VSA floating menu icon as shown below.



Note 1: If, after Trading Platform restarts, this menu item is not presented, please contact TradeGuider Technical Support by opening a ticket at https://tradeguider.freshdesk.com/support/tickets/new.

At each point of time, either the VSA Scanner Manager or the VSA SMART Center PRO might be in use. If not configured otherwise, VSA Scanner Manager will become active after each restart of Trading Platform (see description of SCP parameter "***Show SMART Center after Startup***" in Section "***SMART Center PRO Setup Parameters***").

Note 2: When the VSA Scanner Manager is active, the VSA SMART Center does not provide any alerts.

Note 3: The VSA floating context menu is automatically updated based on the tool (VSA Scanner Manager or VSA SMART Center PRO) in use.

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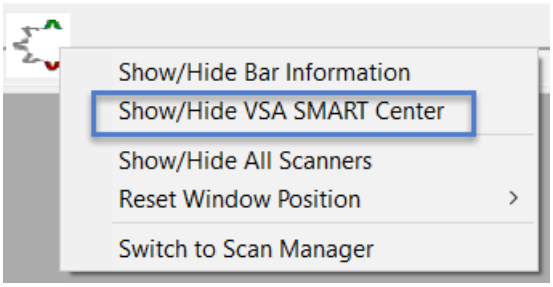
To activate the VSA SMART Center, left-click on the item "**Switch to VSA SMART Center**" (see picture above). After the SCP has been selected, you can show or hide the VSA SMART Center window at any time by selecting "Show/Hide VSA SMART Center".



In some circumstances, you may need to switch back to the VSA Scanner Manager. To do this, left-click on the item "**Switch to Scan Manager**" (see picture above) to make the switch.

Note 4: When the VSA SMART Center is in use, it is running in the background even if its window is not shown up on the monitors. In the event of the alert, SCP window will pop up.

Note 5: Switch from the VSA Scanner Manager to the Show/Hide VSA SMART Center will cause all of the indicators to recalculate. Please allow time for this to happen.

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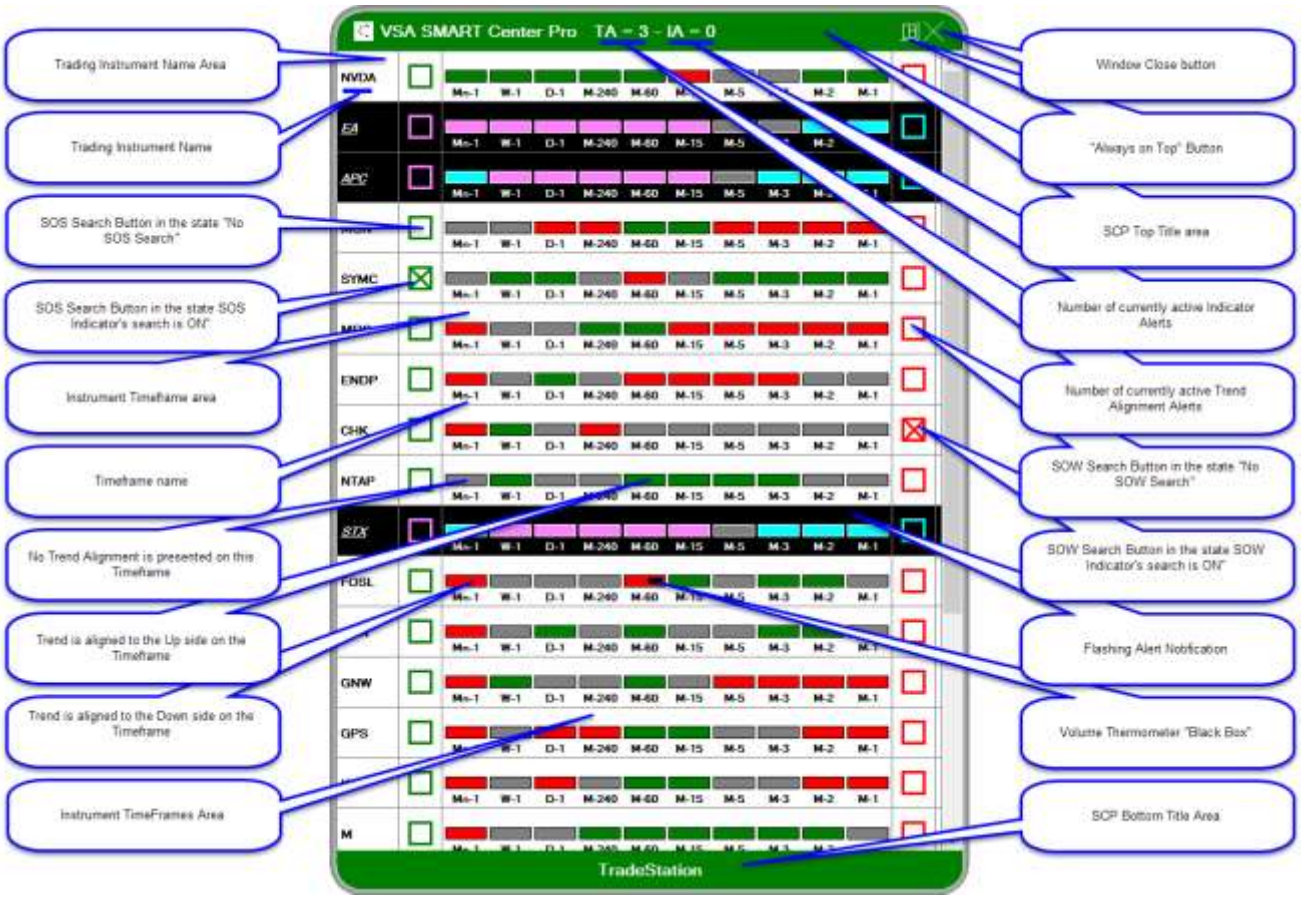
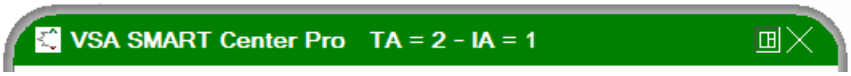
Elements of SMART Center

Visual elements of SCP

Visual Elements of the SCP are presented on the picture below. Please note that the colors on the picture and in this document correspond to the default settings.



Top Title Area



Top Title Area consists of the following elements:

1. The Name of the currently running tool.
   In case the color settings are similar, for differentiation between VSA Scanner Manager and SCP, the name of the currently running tool is provided in the Top Title Area and can be either “Scanner Manager” or “VSA SMART Center Pro”.

2. Active Alerts Information
   As of now, VSA SMART Center PRO provides two types of Alerts:
   - Trend Alignment Alerts
   - VSA Principle (Indicator) Alert

   When an Alert is triggered, SCP pops up its window and automatically aligns alerted Instrument in a way it will become visible on the screen. At the same time, several Alerts can arrive simultaneously and some of them, due to the window size, might not be in the displayed area of the SCP window. Active Alert Information SCP element provides the number of currently active alerts not confirmed by the User. “**TA**” (Trend Alert) shows the number of currently active (not yet confirmed) Alerts for the Trend Alignment. “**IA**” (Indicator Alert) informs about the number of active (not yet confirmed) Alerts of the found VSA Principles.
   Whenever the User confirms an Alert by clicking left mouse button in the Instrument Area, corresponding count in “**TA**” or “**IA**” part is decreasing. In case all Alerts are confirmed by the User or no alert conditions are found, Active Alert Information will not be displayed.

3. “Always on Top” button
   Users may want to keep SCP window open all the time. If this button is pushed (see picture above), SCP will not disappear from the screen in case other application will become active. This mode is useful in multi-monitor environment.
   When “Always on Top” button is un-pushed (default state), switch between different running applications will case SCP to hide its window and re-open it when Trading Platform will be activated again.
   The state of this button is saved and will be reproduced by SCP after Trading Platform restart.

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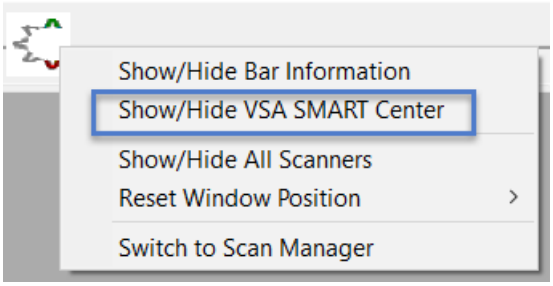
4. “Close window” button
   Clicking on “Close window” button will hide SCP from the screen. You can also close SCP window from VSA Floating Menu by selecting “Show/Hide VSA SMART Center”.



   While hidden, the SCP will still perform an analysis of all instruments and will pop up in the event of alert.

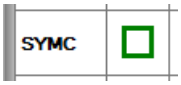
Bottom Title Area

Apart of the Platform or Broker name (depending on the used VSA Add-In), SCP Bottom Title does not contain any other information

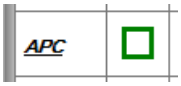
Instrument Name Area

The Name of each analyzed Instrument can be seen in the Instrument Name Area. The font style, representing Instrument Name depends on the scanning status of the Instrument and can be one of the following:

1. Awaiting for Trend Alignment (Normal, Bold Style):



2. Awaiting User confirmation of Trend Alignment Alert, Indicator Alert or confirmation of Indicator's Alert (Bold, Italic, Underlined Style):



3. Instrument is excluded from analysis (Bold, Italic, Underlined Style with Instrument Name Area crossed by line):

To open VSA Scanner for the particular instrument, double click the left mouse button in the Instrument Name Area.

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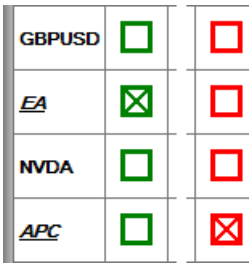
SOS and SOW Search buttons



When SOS (green boxes) or SOW (red boxes) Search buttons are crossed on the Instrument, it indicates to the User that SCP is currently looking for the predefined VSA Principles on all the Timeframes of that particular Instrument. In case of crossed SOS button, SCP will be searching for the Sign of Strength and in case of SOW button crossed - for the Sign of Weakness on all Timeframes of the Instrument.

Those buttons can either be set automatically by SCP (when User confirms Trend Alignment Alert or Trend Alignment Alert is skipped) or manually (at any time) by clicking left mouse button in the green or red square area.

Note 6: Only one button can be active. SCP does not permit to search VSA Principles in both directions at the same time.

Note 7: If the search of VSA Principles is set manually, no other conditions are considered. Indicator Alerts will be generated as soon as the VSA Principle from the predefined Confirmation List is identified.

When a VSA Principle is found, SCP will show the number of that VSA Principle on top of the Timeframe it has been identified on then will inform the User by pre-configured audio sound as well as will start blinking the area of the Instrument in SCP window.

Note 8: After the Indicator Alert is confirmed (by clicking left mouse button in the Timeframe Area of the Instrument), the Instrument will automatically be excluded from the further analysis until the User manually restores it to the analyzing state (by clicking left mouse button in the Instrument Timeframe Area again or by selecting an item "**Restore Instrument for Scanning**" in the SCP Context Menu).

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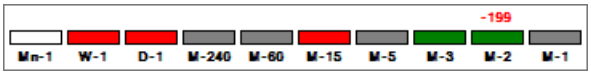
Instrument Timeframe Area

Instrument Timeframe Area contains information about each Timeframe in analysis. There are a maximum of 10 Timeframes that can be loaded. Each box (colored rectangle) represents Trend status of the Timeframe and can be in four different states (see section "Trend Alignment in SCP" for further details):



1. Trend of the Timeframe is undefined (not enough bars for the analysis) or not in use. Rectangle representing Timeframe is filled by white color.
2. Trend of the Timeframe is "Long" (to the up site). Rectangle representing Timeframe is filled by green color.
3. Trend of the Timeframe is "Flat". Rectangle representing Timeframe is filled by gray color.
4. Trend of the Timeframe is "Short" (to the down side). Rectangle representing Timeframe is filled by red color.

Under each box, the "Name" of the Timeframe is provided. First part of the "Name" describes the type of the Timeframe. It could be one of the following:

- Y – Yearly Chart
- Q – Quarterly Chart
- Mn – Monthly Chart
- W – Weekly Chart
- D – Daily Chart
- H – Hourly Chart
- M – Minute Chart
- S – Seconds Chart
- T – Tick Chart
- Ren – Renco chart
- DVC – Delta Volume Chart
- PCC – Price Change Chart
- ReC – Reversal Bar Chart
- KgC – Kagi Chart
- P&F – Point and Figure Chart

Second part of the "Name" represents Timeframe interval. For example, "**W – 1**" tells that SCP analyses the Chart (Timeframe) where each price bar accumulating the quotes of one week.

Note 9: SCP does not create the Charts and analyses only price quotes provided by the Trading Platform. The "Name" of the Timeframes depends on the Trading Platform and Broker that Trading Platform is connected to.

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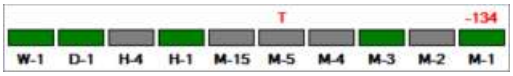
Instrument Timeframe Area is also used for the confirmation of active Alerts. Whenever Trend Alignment Alert or Indicator Alert are triggered, all areas related to that particular instrument start to flicker. The User may cancel such blinking by clicking the left mouse button anywhere inside Instrument Timeframe Area. This will bring SCP to the next analyzing state on this particular Instrument.

Note 10: In the current version of SCP User may also confirm an Alert by clicking left mouse button in the area of SOS or SOW Search buttons.

Whenever Indicator Alert is triggered on the Timeframe, SCP will display found VSA Principle (green colored positive number in case of Sign Of Strength and red colored negative number in case of Sign Of Weakness) on top of the box (rectangle), representing that Timeframe.

Note 11: Only one (first found) VSA Principle will be displayed in the Instrument Timeframe Area (see picture above). After Indicator Alert is triggered on the Instrument, SCP will stop searching for any further Principles on that particular Instrument until User will manually set it to the corresponding state.

Some SCP Strategies may search Trigger Bars and VSA Principles for Indicator Alerts (hereafter Confirmation Indicators) on the same or on different Timeframes. In case Timeframe with Trigger bar and Timeframe where identified Confirmation Indicator are different, the symbol "**T**" is displayed to point the Chart where Trigger Bar is located



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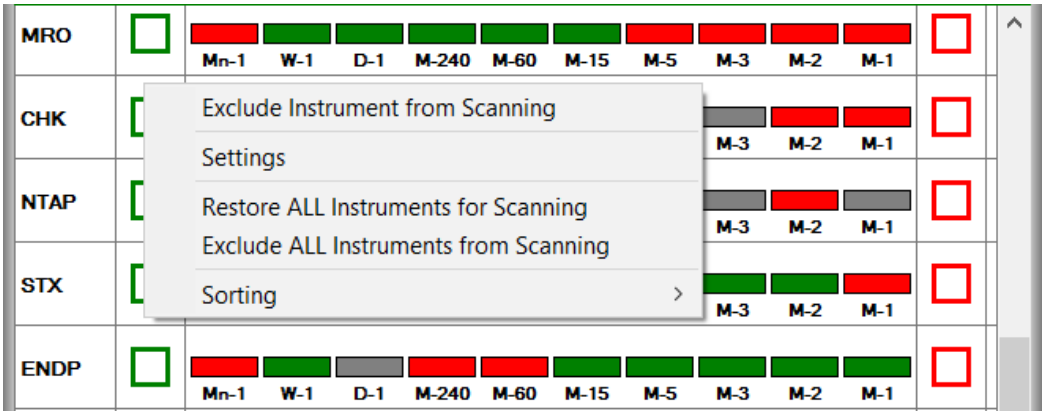
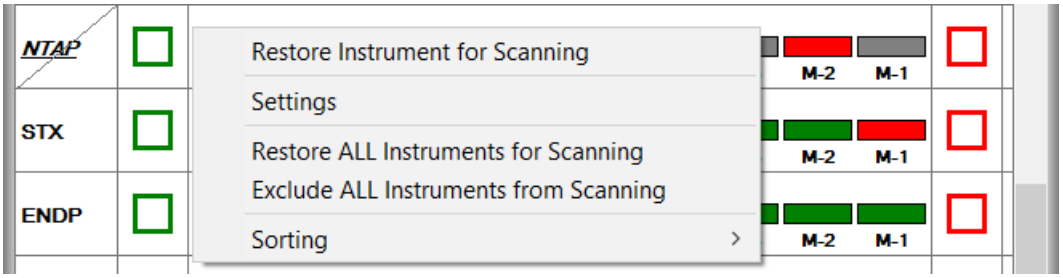
Context Menu of SMART Center PRO

The User can access SCP Context Menu by clicking right mouse button inside SCP window.



SCP Context Menu consists of the following items:

1. Exclude Instrument from Scanning.
   Under some circumstances, the User may want to exclude particular Instrument from the scanning. This is useful, for example, if one is not willing to receive Trend Alignment Alerts on Instrument due to trades already taken or because the conditions of the Market are not fulfill his/her requirements.
   Opening Context Menu from the Instrument Timeframe Area with following selection of this item will inform SCP to bypass that Instrument during its analysis.
   After this item is selected, SCP Context Menu for that particular Instrument will be updated and an item "Restore Instrument for Scanning" will be shown instead.



   Selecting "Restore Instrument for Scanning" will bring Instrument back to the normal analysis and an Alert will be generated whenever the Trend of the Instrument will become aligned.

2. Settings.
   Selecting this SCP Context Menu Item will open SCP Settings Dialog Box. For more details, see the Section "***SMART Center PRO Setup Parameters***"

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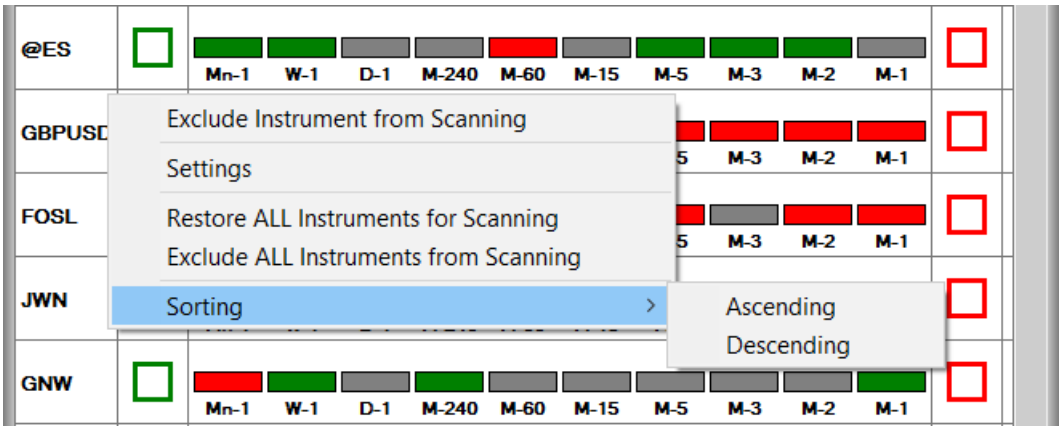
3. Exclude ALL Instruments for Scanning
   Selecting this SCP Context Menu Item will exclude all Instruments loaded into SCP from further analysis. Irrespectively of the Instrument's status, no Alert will be generated.

4. Restore ALL Instruments for Scanning
   Selecting this SCP Context Menu Item will restore all Instruments loaded into SCP to the initial analysis conditions. Alerts will be generated as soon as Trend Alignment will be recognized on the Instruments.

5. Sorting
   Different Trading Platforms load Price Charts in different orders. Because of this, sometimes it is difficult to find required Instrument in SCP window especially when the number of analyzed Instruments is becoming close to 20 – 25.
   To simplify the search, sorting option has been introduced.



Instruments are sorted based on its Names and depending on the selected type of Sorting might be allocated either in alphabetical order from A to Z (Ascending), or in alphabetical order from Z to A (Descending).

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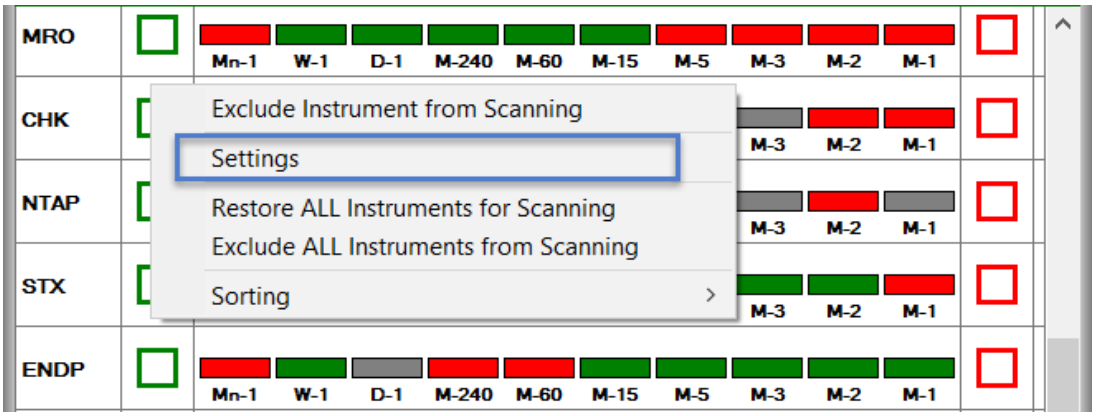
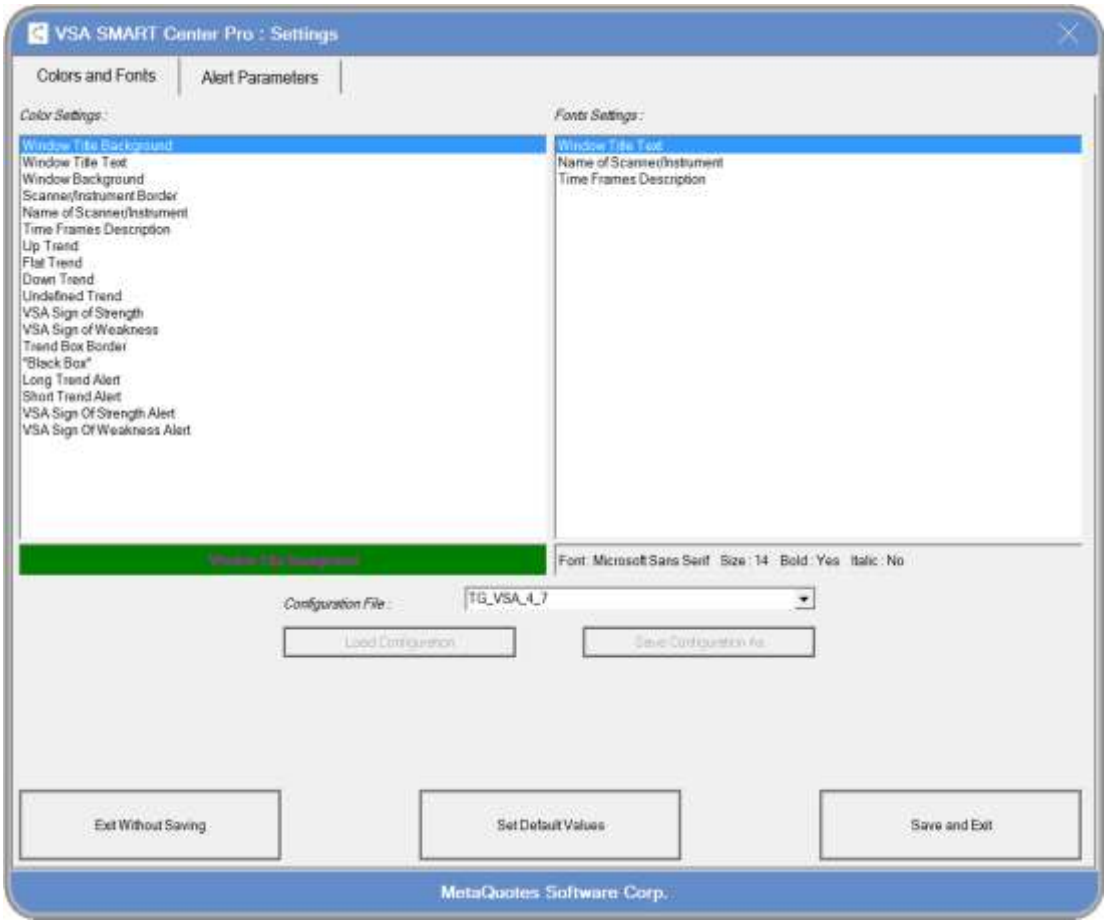
SMART Center PRO Setup Parameters

The User can access SCP Settings by clicking right mouse button inside SCP window and by selecting in the open SCP Context Menu an item “Settings”.



The following dialog box will appear on the screen if one of the Strategies is purchased.



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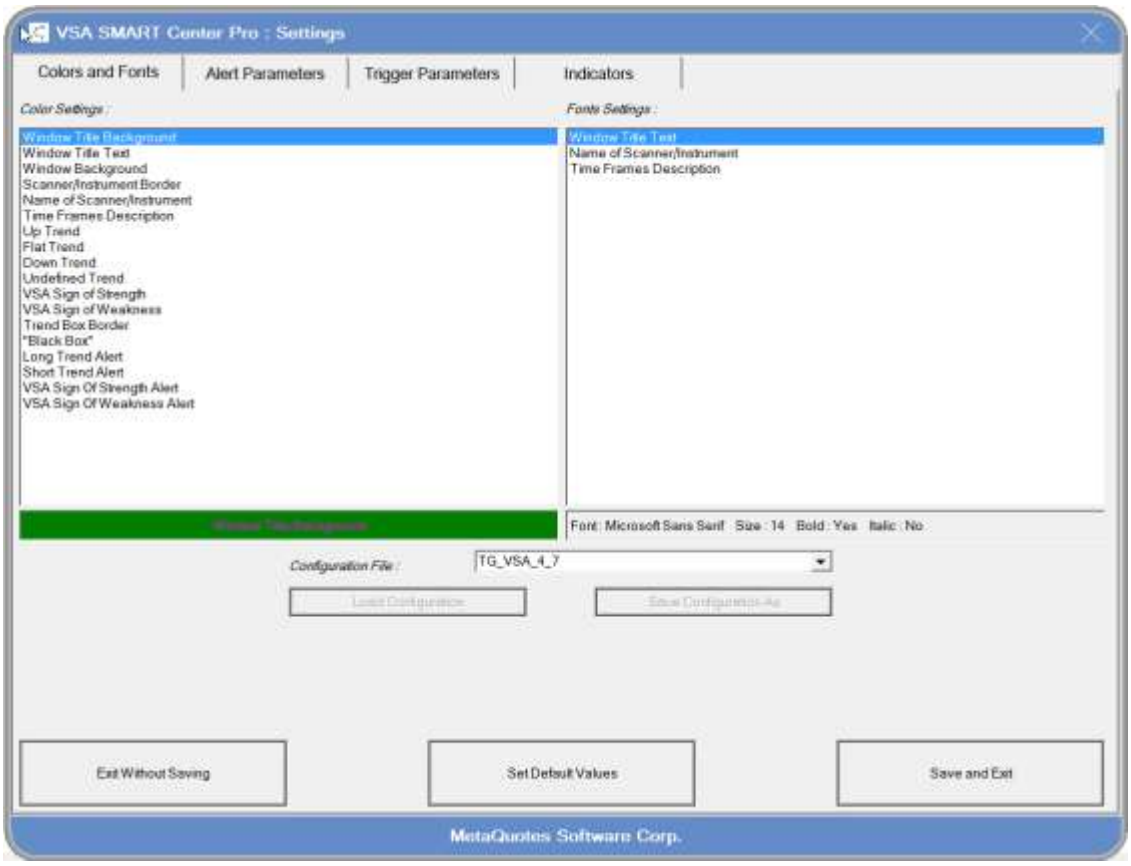
The following dialog box will appear on the screen if professional SCP version is purchased



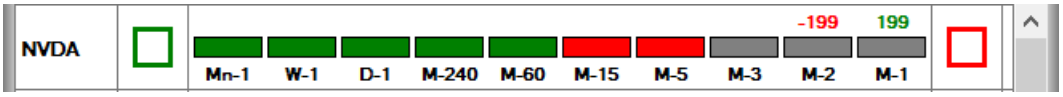
Settings Dialog Box Description

Settings Dialog Box consist of four tabs:

1. **Colors and Fonts Tab (see picture above)**.

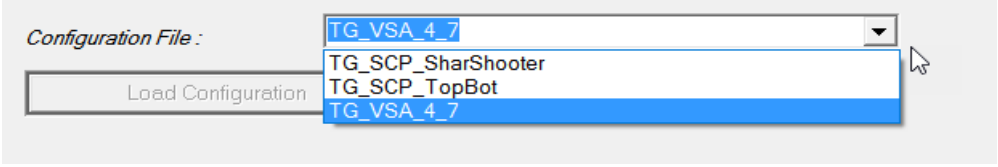
In this tab the User will be able to set the fonts and colors for each element of SCP window. To modify Colors, select in the "***Color Settings***" window required parameter and click on the colored button below that window. Windows built-in color selection Dialog Box will appear.
To modify Fonts, select in the "***Fonts Settings***" window required parameter and click on the button with current font settings below that window. Windows built-in Font selection Dialog Box will appear.

Note 12: While Settings dialog box is open, SCP will not perform any analysis. Moreover, to provide the User the possibility to modify the colors and fonts of major elements, Sign Of Strength 199 and Sign Of Weakness -199 will be artificially added above the first and second Timeframes correspondingly. After Settings dialog box will be closed, all the Instruments will be reset back for the scanning of Trend Alignment.

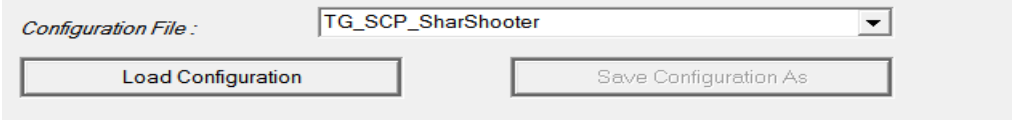


Due to Note 12 above, it is recommended to modify SCP parameters only when the Markets are either closed or moving slowly.

The User may want to save or load its own SCP configuration. Clicking on the "***Configuration File***" list box arrow will show available possibilities.



After the name is selected from the list, "***Load Configuration***" button will become visible. Clicking this button automatically reloads SCP with parameters previously saved.



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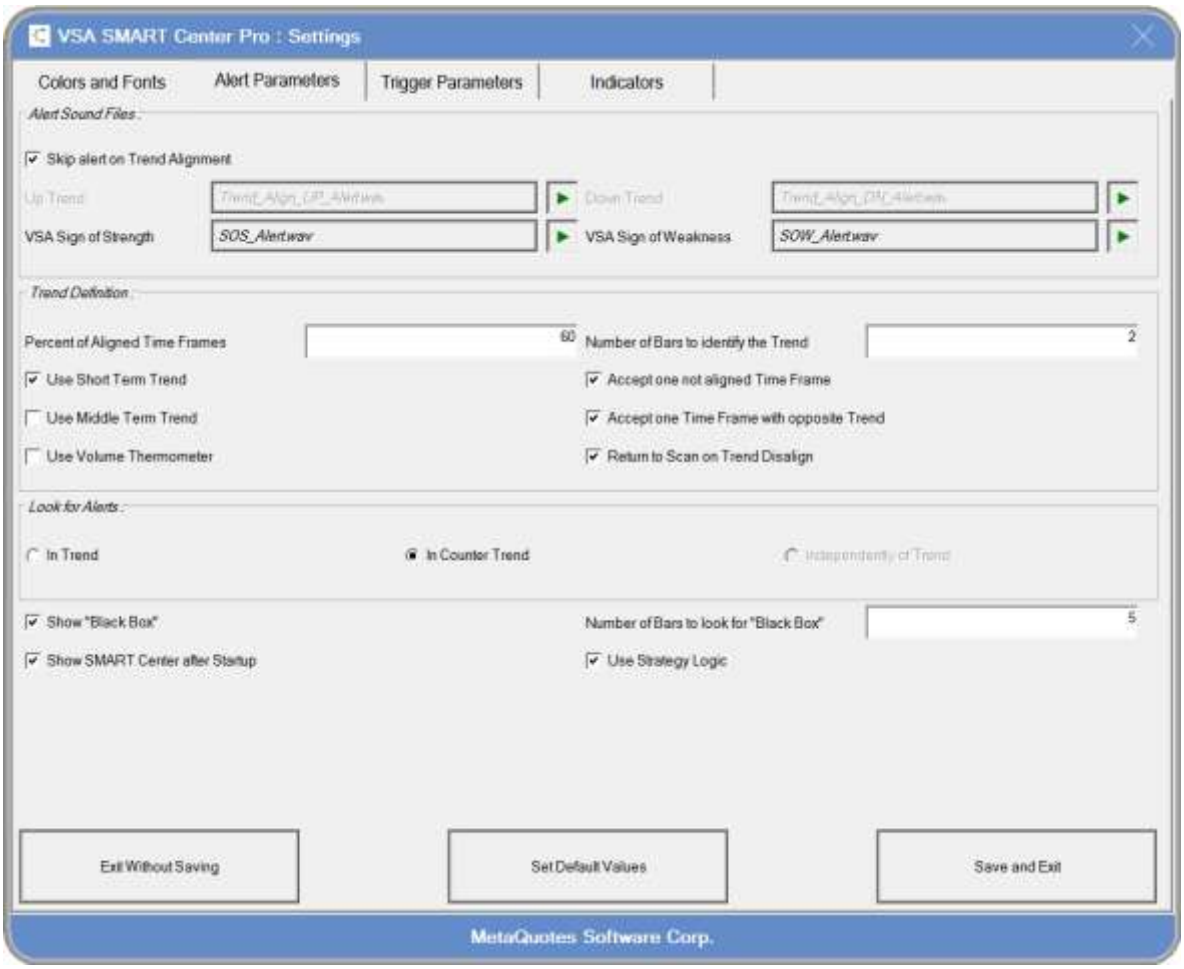
To save current configuration, the corresponding name have to be typed in the list box. If the configuration with entered name does not exist, "***Save Configuration As***" button will become visible.

Clicking this button saves and automatically re-selects current configuration.

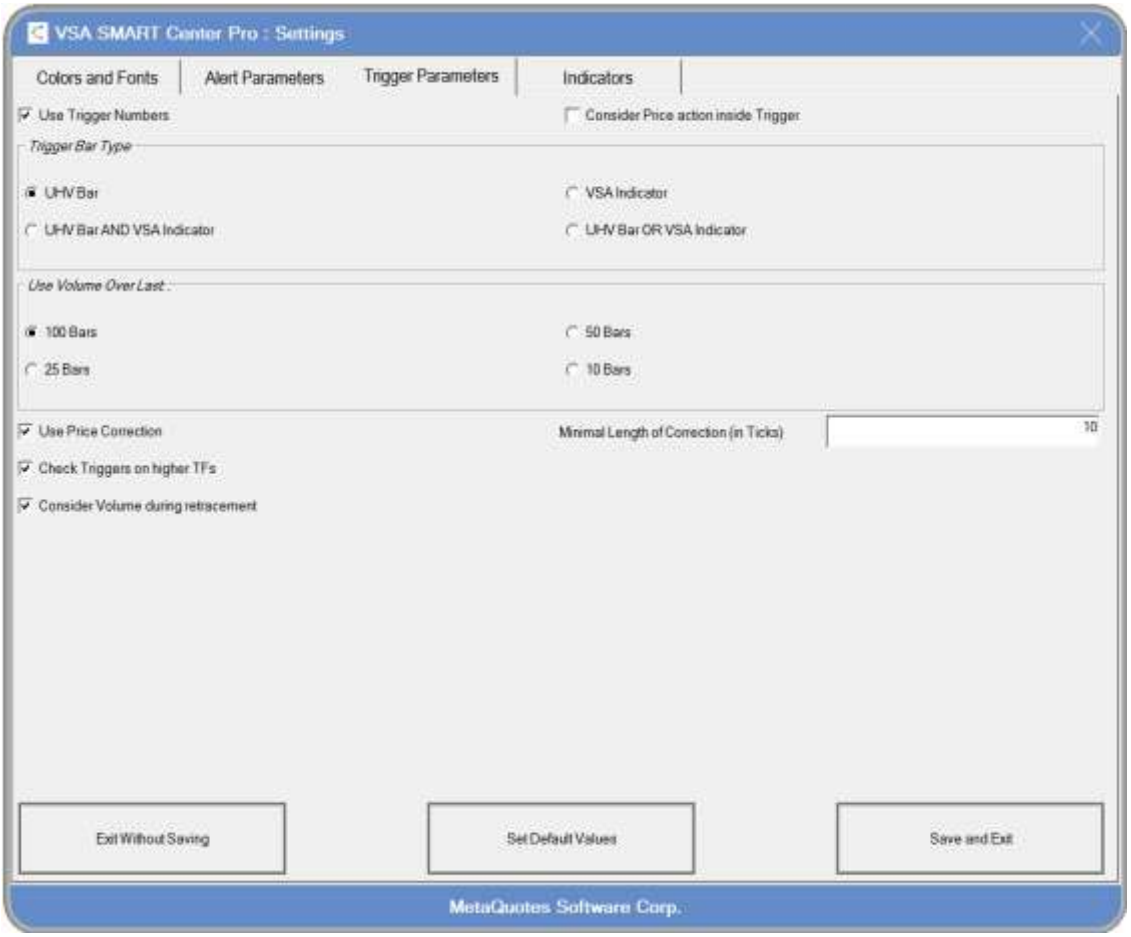
2. Alert Parameters Tab

In this tab, the User will be able to set Alert parameters, sound files as well as parameters of SCP Trend definition.



3. Trigger Parameters Tab (optional feature)

Trigger Bars is an optional feature of SMART Center Pro and has to be ordered separately! After this feature is purchased and activated by TradeGuider, the Trading platform has to be restarted to make it active. An additional tab “Trigger Parameters” will appear in the Setting dialog box of SMART Center Pro.



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In the VSA Methodology, price bars with **Ultra-High** volume have a very important role. We call these bars "**Trigger Bars**". Top (High), Bottom (Low) and Close Prices of such bar are very strong levels of Support and Resistance (Trigger Numbers). In many cases, Markets respect those levels. Price chops around and, finally, jumps out to one or other direction.

On the picture above the Market has broken a Trigger Bar to the Up side, than the price has returned to the Trigger Number (Close price), and, after a successful Test, has continued its up move.

Trigger Numbers become significantly stronger when the trend of an Instrument is aligned. In such situations, after the break of the Trigger Number, corresponding retracement, found Test Principle around High Price level (for the Long trend) or No Demand Principle around Low Price level (for the Short Trend) of the Trigger Bar, are additional confirmations for the continuation of move in the direction of the Trend.

At the same time, Trigger Bar found when market changes its direction, may potentially provide traders much more profitable trades, having lower stop losses, but with lower success rate than one in the trend direction. It is up to the User personal preferences to search for Trigger Bars in Trend or in Counter Trend direction (see parameter "***Look for Alerts***" of Alert Parameters Tab)

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For the filtering of potential trade (Indicator) alerts, Trigger Numbers are implemented in SMART Center Pro. If that feature is switched on (see parameter "***Use Trigger Numbers***"), whenever Trend Alignment is found on the Instrument and confirmed by the User, the software performs the following actions:

1. On each monitored Time Frame, it searches for the Trigger Bar, located within a preset number of Bars of background (see parameter "***Use Volume Over Last…***").
2. Defines corresponding Trigger Numbers
   Please note that SMART Center Pro does not draw the lines on the Charts.
3. Waits for the break of the Top (when analysis is performed into the up side) or Bottom (when analysis is performed into the down side) of Trigger Bar.
4. Waits for the retracement of Price for preset number of Ticks (see parameter "***Minimal Length of correction (in Ticks)***")
5. Checks that price is not below the Low (when analysis is performed into the up side) or not above the High (when analysis is performed into the down side) of the last found Trigger Bar in all higher Timeframes (see parameter "***Check Triggers on higher TFs***")
6. Checks that volume on retracement (correction) is decreasing (see parameter "***Consider Volume during retracement***")
7. Searches for the corresponding Confirmation VSA Principle with the bar Close price above or on Top (when analysis is performed into the up side), below or on the Bottom (when analysis is performed into the down side) of Trigger Bar.
8. Alerts the User with Potential Confirmation Indicator (Indicator Alert) if all above conditions are fulfilled

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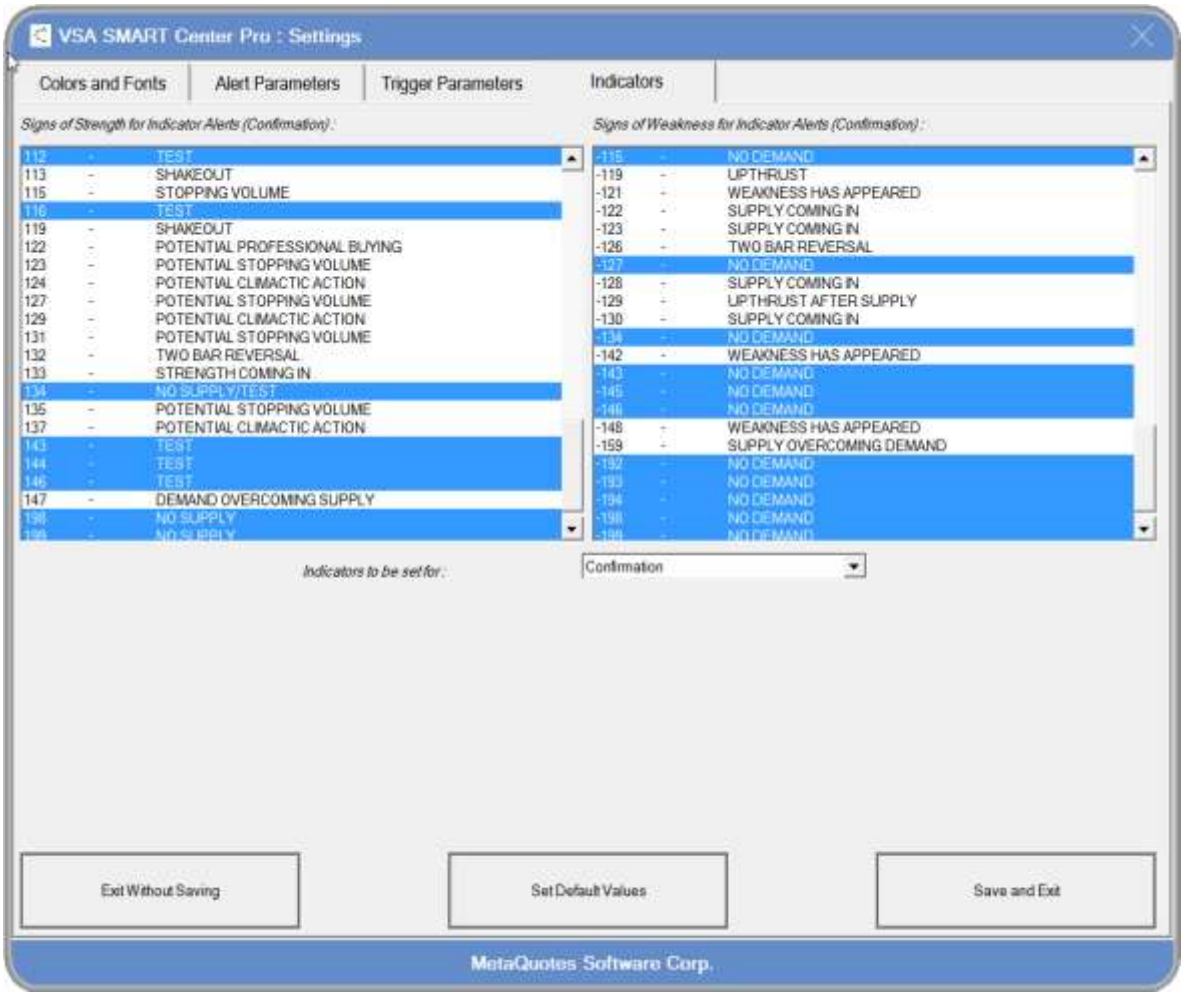
4. Indicators Tab (optional feature)

In this tab either VSA Principles used for Trigger Bar definition (see parameter "***Trigger Bar Type***" of Trigger Parameters Tab) or confirmation Signs Of Strength / Signs Of Weakness VSA Principles for Indicator Alert can be set.

Required group of VSA principles can be chosen in "***Indicators to be set***" combo box.
Click of left mouse button on the corresponding name of the VSA Principle will either select (highlighted by blue color background) or deselect it (white colored background). Only selected VSA Principles will be considered after their arrival.



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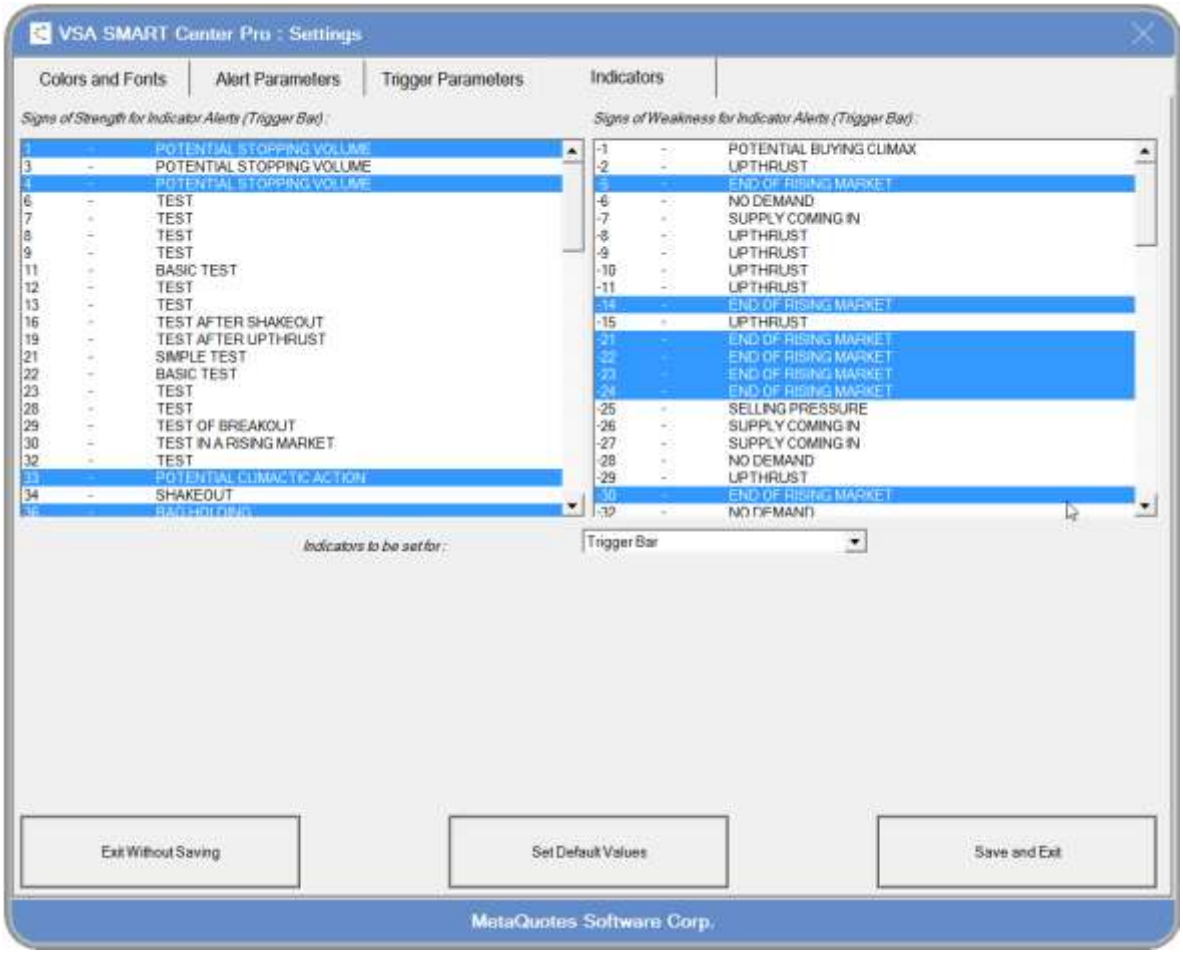

On each tab, tree buttons "***Exit Without Saving***", "***Set Default Values***" and "***Save and Exit***" are present.

Click on "***Exit Without Saving***" button or on cross at the right top side of window title area will close Settings Dialog box and will remove all modifications performed on any of the tabs. SCP will be restarted for normal analysis with the parameters set prior to the opening Settings Dialog box.

Click on "***Save and Exit***" button will close Settings Dialog box. SCP will be restarted for normal analysis with the parameters set by the User.

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Click on "***Set Default Values***" button will cause SCP to load parameters in ALL tabs to the default pre-set values. The settings dialog box will not be closed, the SCP window will be shown on top to show the user applied settings. To exit from Settings Dialog box, the User will either need to click on "***Exit Without Saving***" or on "***Save and Exit***" buttons. In first case, default values will not be saved, but in the second, parameters will be saved and SCP will restart using default setup parameters.

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Parameters Description

Parameters of Color and Font tab

1. Color Settings

Parameter Name	Description
Window Title Background	Sets the background color of Top and Bottom Titles of SCP Window.
Window Title Text	Sets the color of text in Top and Bottom Titles of SCP Window.
Window Background	Sets the background color of SCP Window
Scanner/Instrument Border	Sets the color of border around all Instrument elements.
Name of Scanner/Instrument	Sets the color of Instrument Name in Instrument Name Area
Time Frames Description	Sets the color of Timeframe "Name" in Instrument Timeframe Area
Up Trend	Sets the color of Trend Box in Instrument Timeframe Area for all Timeframes with "Long" Trend direction
Flat Trend	Sets the color of Trend Box in Instrument Timeframe Area for all Timeframes with "Flat" Trend
Down Trend	Sets the color of Trend Box in Instrument Timeframe Area for all Timeframes with "Short" Trend direction
Undefined Trend	Sets the color of Trend Box in Instrument Timeframe Area for whish the price quotes are either not provided or the number of provided price bars is not enough for appropriate VSA calculations
VSA Sign of Strength	Sets the color of a. SOS VSA Principle displayed on top of Trend Box in Instrument Timeframe Area and b. SOS Search button
VSA Sign of Weakness	Sets the color of a. SOW VSA Principle displayed on top of Trend Box in Instrument Timeframe Area and b. SOW Search button
Trend Box Border	Sets the border line color of all Trend Boxes in Instrument Timeframe Area
"Black Box"	Sets the color of the "Black Box" rectangle displayed in the right side of the Trend Box.
Long Trend Alert	Sets the background color of the all Instrument Area in case "Long" Trend Alert will arrive. Please note that while blinking, the second color will be inversed Long Trend Alert color.

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Short Trend Alert	Sets the background color of the all Instrument Area in case "Short" Trend Alert will arrive. Please note that while blinking, the second color will be inversed Short Trend Alert color.
VSA Sign Of Strength Alert	Sets the background color of the all Instrument Areas in case Indicator Alert for the VSA Sign Of Strength Alert will arrive. Please note that while blinking, the second color will be inversed VSA Sign Of Strength Alert color.
VSA Sign Of Weakness Alert	Sets the background color of the all Instrument Areas in case Indicator Alert for the VSA Sign Of Weakness Alert will arrive. Please note that while blinking, the second color will be inversed VSA Sign Of Weakness Alert color.

2. Fonts Settings

3.

Parameter Name	Description
Window Title Text	Sets the name, size and other font attributes of the SCP Top and Bottom Title text
Name of Scanner/Instrument	Sets the name, size and other font attributes of the Instrument Name in the Instrument Name Area
Time Frames Description	Sets the name, size and other font attributes of the Timeframe "Name" in the Instrument Timeframe Area

4. Configuration settings

5.

Parameter Name	Description
Configuration File List Box	If "***Load Configuration***" and "***Save Configuration***" buttons are grayed out, shows configuration profile in use. If one of the buttons is active, shows selected or typed, but NOT LOADED configuration profile. Clicking arrow button of list box provides all available for loading configuration profiles. Typing unique name in the list box creates, but NOT LOADING configuration profile with corresponding name
Load Configuration	Loads preselected in the "***Configuration File***" List Box " configuration profile
Save Configuration	Saves pre-typed in the "***Configuration File***" List Box " configuration profile

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7. Alert Sound Files

Parameter Name	Description
Skip alert on Trend Alignment	If this parameter is set (box is checked), Trend Alignment Alert WILL NOT BE generated. After Trend Alignment on the Instrument is identified, SOS or SOW Search will be automatically initiated and corresponding to the Trend Direction SOS or SOW Search button will be marked as "checked" (crossed inside the button). In this case, Alert will only be generated when VSA principle is found.
Up Trend	This parameter provides the possibility to select a sound file for Trend Alignment Alert to the "Long" direction. All sound files **must** be located in the "Sounds" subdirectory of the main directory of TradeGuider Software (default directory is C:\TradeGuider47\Sounds). The only supported file format is "**wav**" files. Click left mouse button on the file name. Built-in Windows File Dialog Box will appear. Select required file name and close Dialog by left mouse button click on "Open" button. You can play the selected file by clicking left mouse button on the green triangle on a right side of the sound file name
Down Trend	This parameter provides the possibility to select sound file for Trend Alignment Alert to the "Short" direction. All sound files **must** be located in the "Sounds" subdirectory of the main directory of TradeGuider Software (default directory is C:\TradeGuider47\Sounds). The only supported file format is "**wav**" files. Click left mouse button on the file name. Built-in Windows File Dialog Box will appear. Select required file name and close Dialog by left mouse button click on "Open" button. You can play selected file by clicking left mouse button on the green triangle on a right side of the sound file name
VSA Sign of Strength	This parameter provides the possibility to select sound file for Indicator Alert of found VSA Sign Of Strength. All sound files **must** be located in the "Sounds" subdirectory of the main directory of TradeGuider Software (default directory is C:\TradeGuider47\Sounds). The only supported file format is "**wav**" files. Click left mouse button on the file name. Built-in Windows File Dialog Box will appear. Select required file name and close Dialog by left mouse button click on "Open" button. You can play selected file by clicking left mouse button on the green triangle on a right side of the sound file name
VSA Sign of Weakness	This parameter provides the possibility to select sound file for Indicator Alert of found VSA Sign Of Weakness. All sound files **must** be located in the "Sounds" subdirectory of the main directory of TradeGuider Software (default directory is C:\TradeGuider47\Sounds). The only supported file format is "**wav**" files. Click left mouse button on the file name. Built-in Windows File Dialog Box will appear. Select required file name and close Dialog by left mouse button click on "Open" button. You can play selected file by clicking left mouse button on the green triangle on a right side of the sound file name

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8. Trend Definition

Parameter Name	Description
Percent of Aligned Time Frames	Defines percent of "Higher" Timeframes (from left to right side of SCP window) to be analyzed for the Instrument Trend Alignment. This parameter applies for all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Number of Bars to identify the Trend	Defines the number of last closed Prices Bars (from right to left side of the Price Chart) where the Trend of the Timeframe will be identified. This parameter applies to all timeframes of all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Use Short Term Trend	If this parameter is set (box is checked), the values of Short Term (Diamond) Trend Indicator within the number of bars defined by the parameter "***Number of Bars to identify the Trend"*** will be considered during determining the Trend direction of the Timeframe. This parameter applies to all timeframes of all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Use Middle Term Trend	If this parameter is set (box is checked), the values of Middle Term Trend Indicator within the number of bars defined by the parameter "***Number of Bars to identify the Trend"*** will be considered during determining the Trend direction of the Timeframe. This parameter applies to all timeframes of all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Use Volume Thermometer	If this parameter is set (box is checked), the values of VSA Volume Thermometer Indicator within the number of bars defined by the parameter "***Number of Bars to identify the Trend"*** will be considered during determining the Trend direction of the Timeframe. This parameter applies to all timeframes of all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Accept one not aligned Time Frame	If this parameter is set (box is checked), SCP will still consider the Trend of the Instrument as aligned in case the Trend on any one (but on only one) from the analyzed Timeframes, excluding far right one, will be "FLAT". This parameter applies to all timeframes of all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Accept one Time Frame with opposite Trend	If this parameter is set (box is checked), SCP will still consider the Trend of the Instrument as aligned when the Trend on any one (but on only one) from analyzed Timeframes, excluding far right one, will be either "FLAT" or "UP" in case of "Short" Trend or "Down" in case of "Long" Trend. This parameter applies to all timeframes of all Instruments loaded into SCP. See Section "***Trend Alignment in SMART Center PRO***" for more details.
Return to Scan on Trend Disalign	If this parameter is set (box is checked), and Trend Alignment Alert is active (Instrument is blinking), an Alert will automatically be cancelled when Trend Alignment will disappear. In such situation, SCP will start look for the Trend Alignment on that particular instrument again. If this parameter is not set, Instrument Area will be blinking until the User will confirm it by click left mouse button inside Instrument Timeframe Area of SCP

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Look for Alerts	Identifies the direction of Indicator Alerts and the way how found Trigger Bars are analyzed by SCP: ***In Trend***: When an Instrument is in a Long Trend waits until the price breaks the Top of Trigger Bar and, apart from the other selected conditions, searches for the Confirmation Signs of Strength. When an Instrument is in a Short Trend waits until the price breaks the Bottom of Trigger Bar and, apart from the other selected conditions, searches for the Confirmation Signs of Weakness ***In Counter Trend***: When an Instrument is in a Long Trend waits until the price breaks the Bottom of Trigger Bar and, apart from the other selected conditions, searches for the Confirmation Signs of Weakness When an Instrument is in a Short Trend waits until the price breaks the Top of Trigger Bar and, apart from the other selected conditions, searches for the Confirmation Signs of Strength ***Independently of Trend***: Does not look into the Trend direction of the instrument. If the price breaks the Top of Trigger Bar searches for the Confirmation Signs of Strength and other selected conditions to the up side. If the price breaks the Bottom of Trigger Bar searches for the Confirmation Signs of Weakness and other selected conditions to the down side

9. Other parameters

10.

Parameter Name	Description
Show “Black Box”	If this parameter is set (box is checked), Volume Thermometer “Black Box” will be shown up in the right part of the Timeframe Trend rectangle. As soon as “Black Box will disappear from the range set by the parameter ”***Number of Bars to look for “Black Box***”“, it will not be displayed. This parameter applies to all timeframes of all Instruments loaded into SCP.
Number of Bars to look for “Black Box”	If “***Show “Black Box”***” is set and “Black Box” has appeared on the Volume Thermometer Indicator, this parameter defines the number of Price Bars on the Chart (from right to left) where Volume Thermometer “Black Box” will be shown up in Timeframe Trend rectangle. This parameter applies to all timeframes of all Instruments loaded into SCP.
Show SMART Center after Startup	If this parameter is set (box is checked), SCP window will automatically be open on the startup of Trading Platform.
Use Strategy Logic	Behavior of SCP when this parameter is either checked or unchecked depends on the purchased configuration. ***Strategy (limited SCP) configuration***: When unchecked sets less restricted way of analysis, while when checked, checks price positioning according to the trigger bars on higher timeframes as well as volume on price retracements (if required by the strategy) ***Professional SCP configuration***: When checked, apart from other preset by the User parameters uses built in strategy logic. When unchecked uses only parameters set by the User

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Parameters of Indicators tab

Parameter Name	Description
Indicators to be set for	Identifies the group of VSA principles to be modified ***Confirmation*** This group of indicators is used for the Indicator Alerts (confirmations). Usually these are low volume based VSA principles ***Trigger Bar*** In case "***Trigger Bar Type***" parameter in Trigger Parameter Tab is set to "VSA Indicator" or "UHV Bar AND VSA Indicator" or UHV Bar OR VSA Indicator", this group of indicators is used for selecting VSA Principles defining Trigger Bars. Usually these are Very or Ultra High volume based VSA Principles.
Signs of Strength for Indicator Alerts	This group of parameters contains the list of VSA SOS Principles to be alerted. Only selected Principles will be alerted. The User may highlight any number of Principles from the list. This parameter applies to all timeframes of all Instruments loaded into SCP.
Signs of Weakness for Indicator Alerts	This group of parameters contains the list of VSA SOW Principles to be alerted. Only selected Principles will be alerted. The User may highlight any number of Principles from the list. This parameter applies to all timeframes of all Instruments loaded into SCP.

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Parameters of Trigger Parameters tab (optional)

Parameter Name	Description
Use Trigger Numbers	Switches On (Check Box is ticked) or off usage of Trigger Bars for the potential trade alerts.
Consider Price action inside Trigger	This Parameter allows User to look for the price action inside the body of Trigger Bar. Usually the trades, taken in the body of Trigger Bar, require lower stop loss level and can provide bigger profit, but have much lower success rate, comparing to ones taken outside of the Trigger Bar. If parameter is checked, SMART Center Pro will consider price action inside Trigger Bar (as well as outside) and will alert the User whenever corresponding VSA Principle is found in the direction of Trend.
Trigger Bar Type	Provides the possibility to select the type of the Trigger Bar used for the SCP analysis: ***UHV Bar***: Sets the type of Trigger Bar as the Bar with Ultra High Volume, highest over the number of price bars selected in the parameter "***Use Volume over Last***" ***VSA Indicator***: Sets the type of Trigger Bar to the VSA Principles, selected under Trigger Bar group of Indicators Tab. In this case Relative volume of identified Trigger Bar is not consider by SCP ***UHV Bar AND VSA Indicator***: Considering the Bar as a Trigger Bar when conditions of ***UHV Bar*** and ***VSA Indicator*** are both presented on the same price bar ***UHV Bar OR VSA Indicator***: Considering the Bar as a Trigger Bar when either conditions of ***UHV Bar*** or ***VSA Indicator*** are presented on the price bar
Use Volume Over Last	This parameter provides the User with possibility to limit search of Trigger Bars in a certain range of preceding bars and can be set to 100, 50, 25 or 10 bars of the background.
Use Price Correction	If this option is checked, SMART Center Pro will be waiting for the correctional move defined by the " Minimal Length of Correction" parameter and will start search for the VSA Principles in a direction of trend only when such correction has taken place. It has to be noted that alerts will be triggered when the Close Price of the bar with found VSA Principle is below (in case of the Long Trend) or above (in case of the Short Trend) preset number of retracement ticks.

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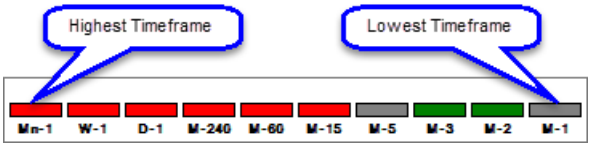
Minimal Length of Correction (in Ticks)	Number of the ticks for the retracement of price in the opposite to the Trend of the Instrument direction. It has to be noted that the value of this parameter depends on the Market scanned and can vary depending on the number of digits identifying the price of the Instrument.
Check Triggers on higher TFs	When this parameter is set, SCP checks price level in accordance with Top or Bottom (depending on the direction) of latest found Trigger Bar on all timeframes above one where Confirmation Indicator is found.
Consider Volume during retracement	When this parameter is set, SCP checks that volume on retracement is decreasing

Trend Alignment in SMART Center PRO

If not configured or set otherwise, after resetting the analysis process SCP starts to check "Higher" Timeframes of the Instruments for the Trend Alignment. Timeframes are identified as "Higher" or "Lower" based on its position in the Instrument Timeframe Area from left to right irrespectively of the Timeframe type and its interval (see picture below).



Note 14: It is very important to allocate Timeframes in a right order with enough price data in the background. See VSA Scanner Operational Manual for more information about Timeframes configuration.

Trend Alignment is identified in two consecutive phases:

1. **Defining the direction of the Trend on each Timeframe of the Instrument**.
   Trend of the Timeframe (Price Chart) is identified based on the state of VSA Trend Indicators on the pre-set number of last closed Price Bars (see SCP Setup Parameter "***Number of Bars to identify the Trend***"). There are three types of VSA Trend Indicators available in TradeGuider Software Release 4.7:
   a. Short Term (Diamond) Trend
   b. Middle Term Trend
   c. VSA Volume Thermometer

   In SCP Settings (see Section "***SMART Center PRO Setup Parameters***"), The User may choose any combination of above Trend types.

   The Trend of the Timeframe will be considered as "Aligned" only in case all chosen Trend Types are identified in the same direction.

   Example 1: The User has selected Short Term Trend and Volume Thermometer over five last bars to identify the Trend. Corresponding settings of SCP are presented on the picture below:

   In this example (see picture below), Trend will be considered as "Short" (to the down side) because Short Term (Diamond) Trend and Volume Thermometer are showing the same "Short" direction on last 5 closed Price Bars (very last right Bar is not yet closed).

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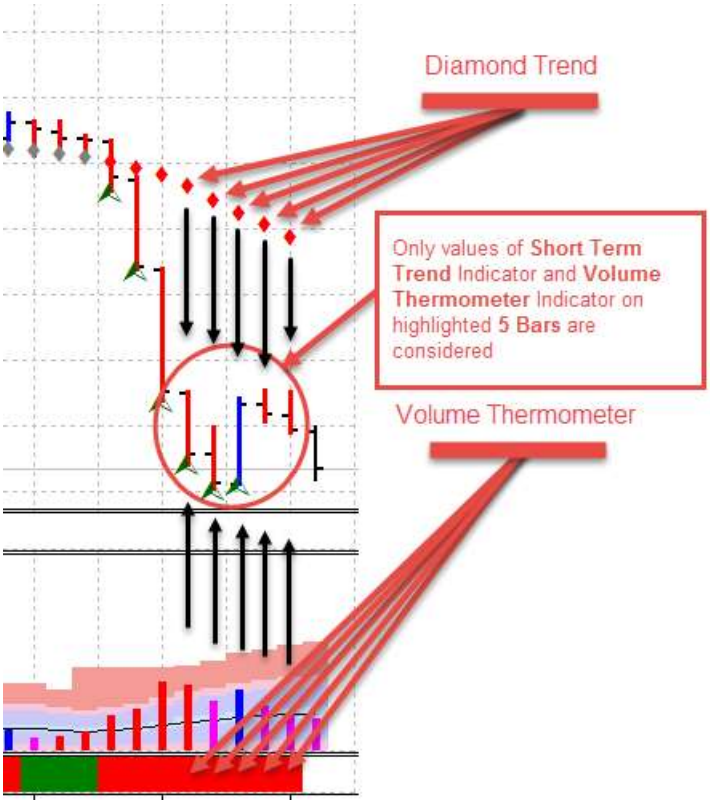
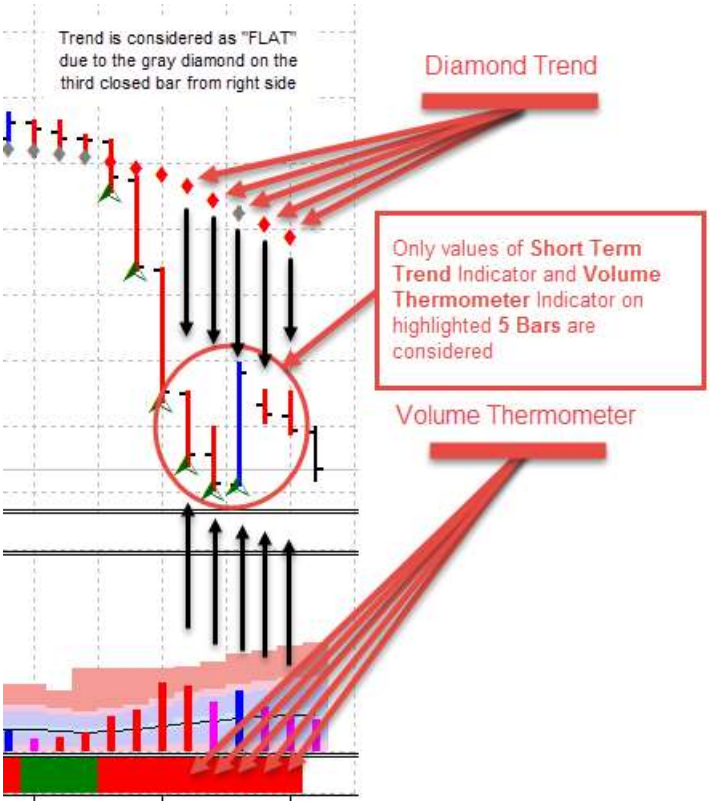


Note 15: In case the direction of any from chosen Trend Indicators on ANY number of Price Bars will be different from others, the Trend of the Timeframe will be considered as "Flat".



On the picture above, in spite of the fact that the Short Term Trend Indicator and Volume Thermometer Indicator are showing Down Trend direction on majority of the Price Bars,

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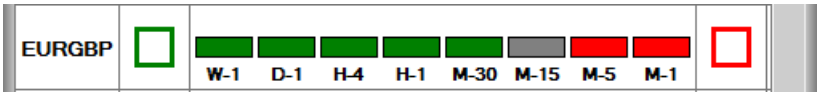
because of the "Flat" Short Trend direction identified on the 3rd closed Bar from the right side of the Chart, the Trend of all Timeframe will be considered as "Flat".

2. **Comparing direction of the Trend as pre-set by the User number of "Higher" Timeframes**.

After the Trend of each Timeframe of the Instrument has been identified, SCP checks for the alignment of Trends on the "Higher" Timeframes. The number of considered Timeframes is calculated based on the value of the "***Percent of Aligned Time Frames***" parameter from SCP settings. Default value of this parameter is 60%.

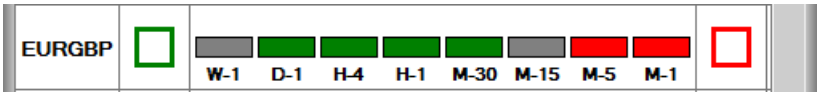
Example 2: On the picture below, an Instrument EURGBP has eight Timeframes. At first, SCP calculates the number of the Timeframes to be analyzed for the Trend direction. Sixty percent out of eight will be five, so SCP will look at only last five Timeframes from left to right. The Trend on M-15, M-5 and M-1 will not be checked. Bars representing W-1 (One Week), D-1 (One Day), H-4 (Four Hours) and M-30 (Thirty Minutes) Charts are all green ("Long Trend"). Therefore, an Alert for the Trend Alignment to the "Long" side will be generated.



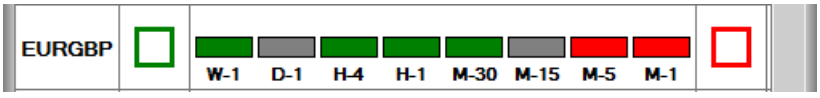
There are two more parameters what can affect an Alert on Trend Alignment:

a. "***Accept one not aligned Timeframe***" and
b. "***Accept one Timeframe with opposite Trend***"

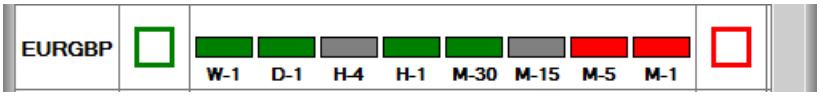
If the first parameter "***Accept one not aligned Timeframe***" is set, SCP will consider the Trend of the Instrument as aligned in case the Trend on only one from analyzed Timeframes, excluding far right one, differs from other and will be "Flat".



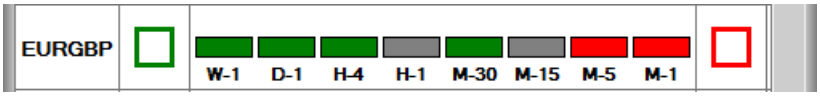
Trend is aligned



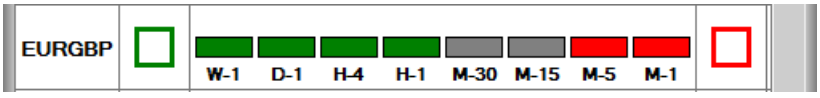
Trend is aligned



Trend is aligned



Trend is aligned



Trend is NOT aligned

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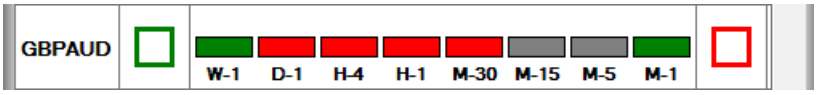
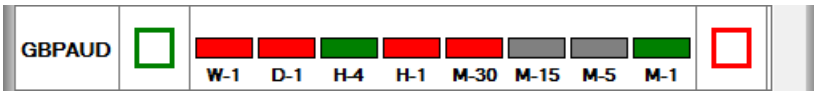
When both "***Accept one not aligned Timeframe***" and "***Accept one Timeframe with opposite Trend***" SCP parameters are set, SCP will consider the Trend of the Instrument as aligned in case the Trend on any, but only one from analyzed Timeframes, excluding far right one, will be either "Flat" or in opposite direction.

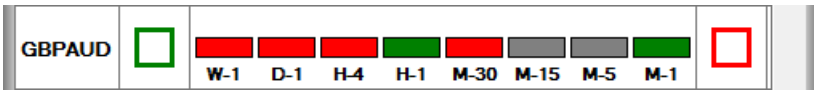


Trend is aligned

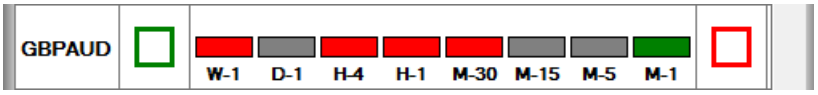
Trend is aligned



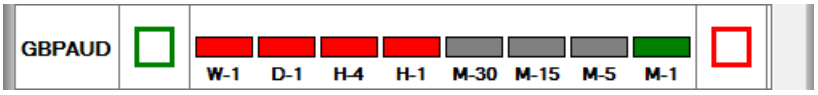
Trend is aligned



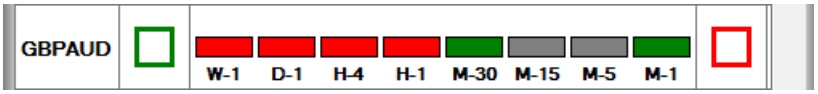
Trend is aligned



Trend is aligned



Trend is NOT aligned



Trend is NOT aligned

Note 16: To perform all necessary calculations, an Instrument MUST have a minimum of three (3) Timeframes configured. If the number of the Timeframes is less than three, the Trend of the Instrument will be considered as "UNKNOWN".

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Creating and Managing own Sequences

This section will be updated later

Document revision history

Date	*Revision*	*Edited by*	*Status*
30.05.2016	0.1	Grigory Margolin	Draft
20.08.2016	0.2	Richard Bednall	Updated
02.10.2016	1.0	Arthur Robinson	Updated
10.07.2017	2.0	Grigory Margolin	Updated
16.08.2018	3.0	Grigory Margolin	Updated
13.09.2018	4.0	Arthur Robinson	Updated
03.10.2018	4.1	Arthur Robinson	Updated

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