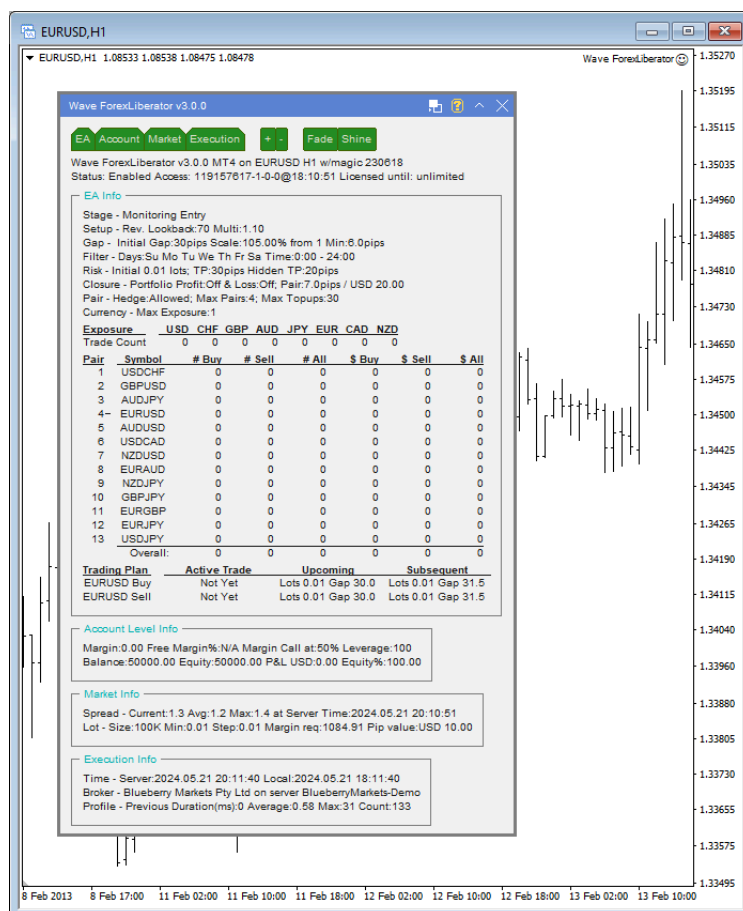


# Expert4x Wave ForexLiberator EA for MT5

May 23, 2024





# Contents

<b>Chapter 1: Copyright Notices.....</b>	<b>5</b>
<b>Chapter 2: Getting Started with the Wave ForexLiberator EA.....</b>	<b>6</b>
2.1 Installing the Wave ForexLiberator EA.....	6
2.2 Wave ForexLiberator Expert Advisor First Time Activation.....	9
<b>Chapter 3: System Requirements.....</b>	<b>14</b>
3.1 Operating System Requirements.....	14
3.2 Hardware Requirements.....	14
3.3 MetaTrader (MT5) Requirements and Settings.....	14
3.4 Forex Broker Requirements.....	14
3.5 Hedging Support Requirements.....	14
3.6 Non-FIFO Support Requirements.....	15
3.7 Account Type and Minimum Lot Size Requirements.....	15
3.8 ECN/STP Broker Accounts.....	15
<b>Chapter 4: Wave ForexLiberator EA Configuration Guide.....</b>	<b>16</b>
4.1 Configuration and Operation Principles.....	16
4.2 Wave ForexLiberator EA Parameter Descriptions.....	16
4.2.1 TRADE ENTRY.....	17
Direction of Initial Trade Entry.....	17
Look Back Bars.....	17
Price Gap.....	18
Gap Scaling Start Level.....	18
Gap Scaling Rate.....	18
Minimum Gap Size.....	19
Lots for Initial Trade Entry.....	19
Topup Lots Multiplier.....	19
Topup Lots Change by Lots.....	20
Topup Trades to Skip.....	21
Initial Lots Adjustment: Base Account Equity Amount.....	21
Initial Lots Adjustment: Required Equity Change.....	21
Initial Lots Adjustment: Initial Lots Adjustment.....	22
4.2.2 INITIAL TRADE MANAGEMENT.....	22
Initial: Take Profit.....	22
Initial: Hidden TP.....	23
Initial Trade Trailing Stop.....	23
4.2.3 HEDGE TRADES MANAGEMENT.....	24
Allow Buy & Sell the Same Pair at the Same Time.....	24
4.2.4 BASKET OF TRADES MANAGEMENT.....	25
Pair: Target Closure \$ Amount.....	25
Pair: Target Profit Pips Closure.....	26
Portfolio: Closure at Profit \$ Amount.....	26
Portfolio: Closure at Maximum Loss \$ Amount.....	26
Portfolio: Reentry After Closure.....	26
Pairs to Trade.....	27
Pairs to Get Out.....	27
Maximum Traded Pairs.....	28
Maximum Currency Exposure.....	28
Maximum Topup Trades per Pair per Direction.....	28

Topup TP Mode.....	28
4.2.5 PRUNING OF TRADES.....	29
Start Pruning at Trade Count in a Pair Direction.....	29
Trade Pair Pruning Approach.....	29
Gap Pruning From This Scale of Initial Gap.....	30
4.2.6 TIME OF DAY FOR INITIAL ENTRY.....	31
Reference Time Selection.....	31
GMT Offset of Broker.....	32
Entry Window From Hour/Minute - Entry Window Until Hour/Minute.....	33
Monday ... Sunday Trade Entry.....	33
4.2.7 MISCELLANEOUS.....	34
Closeout Summary Text Colour.....	34
Closeout Text Display.....	34
BUY:Approx. Closeout Price Level Colour.....	35
SELL:Approx. Closeout Price Level Colour.....	35
Pair Name Prefix & Suffix.....	36
Tick Scaling for CFD Markets.....	37
Magic Number.....	39
4.2.8 Examples.....	39
Example - Normal Entry.....	39
Example - Reverse Entry.....	40
Example - Entry with TP Only.....	40
Example - Entry with TP and Hidden TP.....	40
Example - Entry with TP, Hidden TP and Trailing.....	41
Example - Trade Not More Than 2 Out of Multiple Markets.....	41
Example - Trade Max 1 Pair Involving the Same Currency.....	42
Example - Stop Trading of Certain Pairs.....	43
Example - Scale Price Gap Up by Rate.....	43
Example - Scale Price Gap Down by Rate.....	44
Example - Same Initial Lots All the Time.....	45
Example - Initial Lots Adjustment Upward Only.....	45
Example - Initial Lots Adjustment Up & Down.....	45
Example - Same Position Size All the Time.....	46
Example - Scale Lots Up by Multiplier.....	47
Example - Scale Lots Down by Multiplier.....	47
Example - Scale Lots Up by Amount.....	48
Example - Scale Lots Down by Amount.....	49
Example - Skip Topup and Scale Up by Multiplier.....	50
Example - Skip Topups and Scale Down by Multiplier.....	50
Example - Skip Topup and Scale Up by Amount.....	51
Example - Skip Topups and Scale Down by Amount.....	52
Example - Closure at Profit Amount.....	53
Example - Closure at Pips Profit.....	53
Example - Closure at Portfolio Profit.....	53
Example - Closure at Portfolio Loss.....	54
Example - Stop Trading After Portfolio Closure.....	54
Example - Balanced Amount Pruning.....	54
Example - First & Last Trades Pruning.....	54
Example - Gap Pruning.....	55
Example - FIFO Trading.....	55

## **Chapter 5: Knowledgebase..... 57**

5.1 How to Download MT5.....	57
5.2 How to Download the Setup Application.....	57
5.3 How to Install the Wave ForexLiberator EA.....	58
5.4 How to Upgrade the EA.....	60
5.5 How to Attach the Wave ForexLiberator Expert Advisor to a Chart.....	61
5.6 Wave ForexLiberator Expert Advisor First Time Activation.....	65
5.7  Sign Instead of  Sign After Attach.....	69

5.8 What is the Leverage of My Account.....	70
5.9 How to Figure Out My Broker's GMT Offset?.....	70
5.10 EA Is Not Starting Up After Attach to Chart.....	71
5.11 No Updates to Chart.....	72
5.12 Prompted for Access ID at Service Access Settings.....	73
5.13 How to Edit the EA Input Values.....	74
5.14 Not Enough Memory For Bar History Or Indicator.....	74
5.15 No Trades Due to Trade Disabled.....	75
5.16 Backtest In Visual Mode Not Working.....	76
5.17 Backtest Not Working.....	77
5.18 Connection Down Message.....	77
5.19 Computer Always-on.....	78
5.20 No Trades During Backtesting.....	79
5.21 Visual Mode Checkbox Missing in Strategy Tester.....	80
5.22 Step-by-step Installation of Expert4x EAs and Indicators.....	81
5.23 How to download an EA setup in VPS environment.....	86
5.24 How to enable JavaScript in your Internet Explorer.....	98
5.25 How to Enable Download in your Internet Explorer.....	100

## **Chapter 6: Operational Messages..... 104**

6.1 Operational Messages.....	105
6.1.1 Message 1001.....	105
6.1.2 Message 1002.....	106
6.1.3 Message 1006.....	107
6.1.4 Message 1007.....	107
6.1.5 Message 1008.....	108
6.1.6 Message 1121.....	109
6.1.7 Message 1163.....	110
6.1.8 Message 2101.....	111
6.1.9 Message 2118.....	112

## **Chapter 7: Support..... 114**

<b>Index.....</b>	<b>115</b>
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# Chapter 1

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# Chapter 2

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## Getting Started with the Wave ForexLiberator EA

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*Getting Started* provides a guided exploration of the Wave ForexLiberator EA. It is geared for an audience that has little or no knowledge of installing an MT5 EA. It walks the novice user through downloading and installing the Wave ForexLiberator EA.

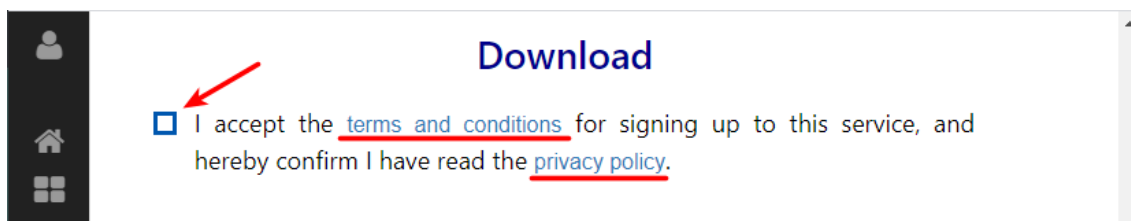
### 2.1 Installing the Wave ForexLiberator EA

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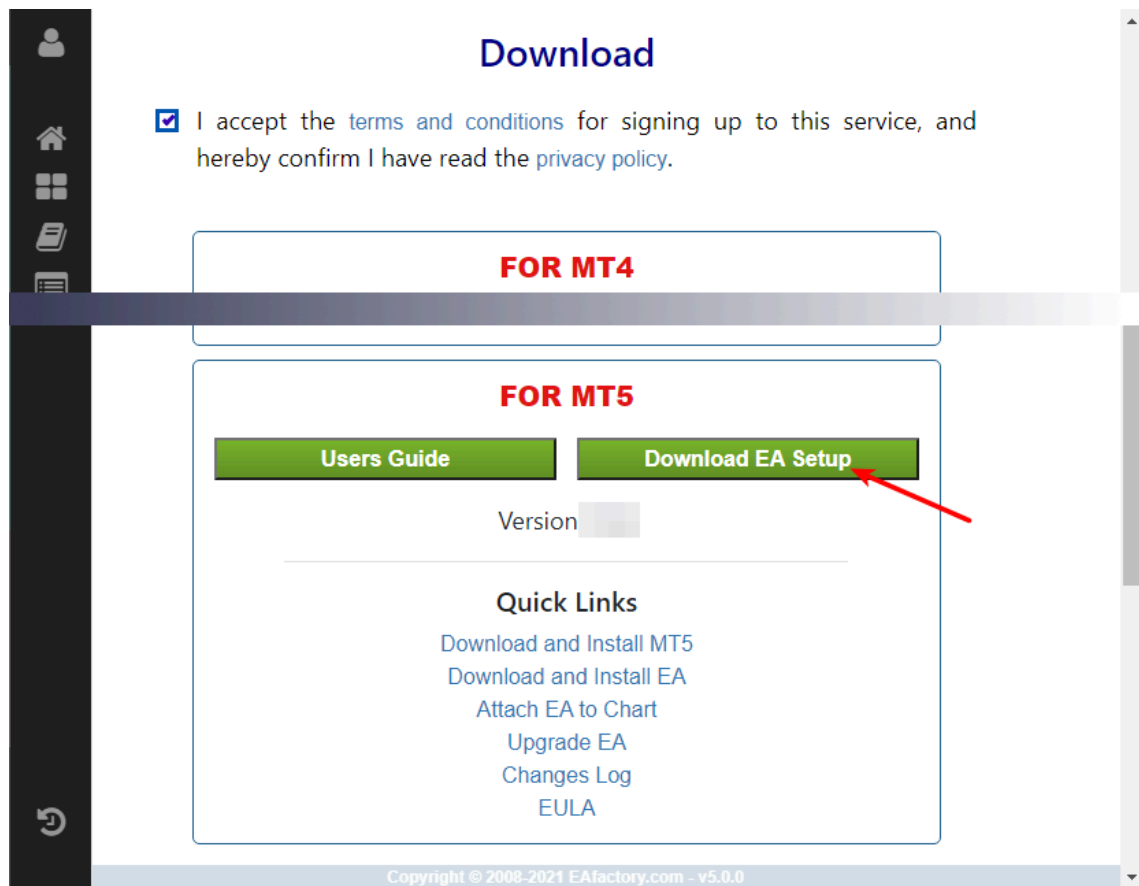
The Wave ForexLiberator EA comes with a setup application to provide a wizard based installation process to the selected MT5 terminal.

#### Before you start...

- Ensure that you have the login credentials to the Web Support Centre.
  - Ensure that you have an MT5 terminal version 5.00 build 4260 or later installed.
1. Exit the MT5 if it was running.
  2. Visit the Wave ForexLiberator EA [Web Support Centre](#) page.
  3. Read the Web Support Centre [Terms and Conditions](#) and [Privacy Policy](#) then tick the checkbox to accept them.

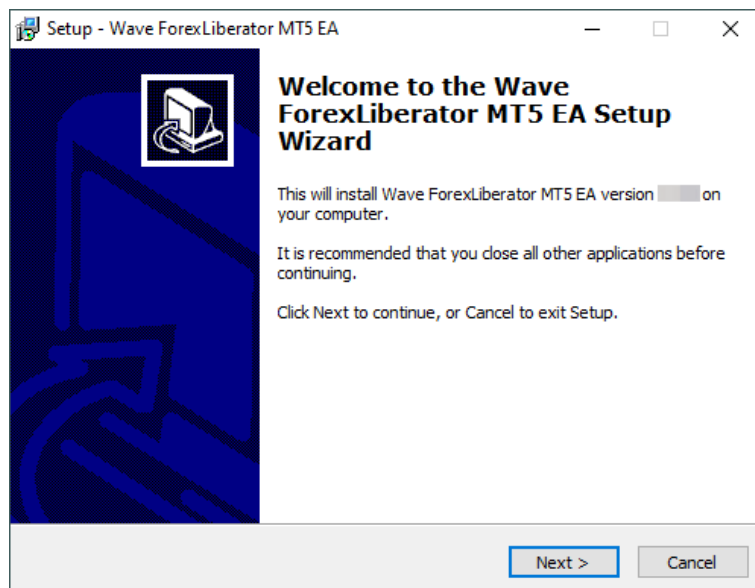


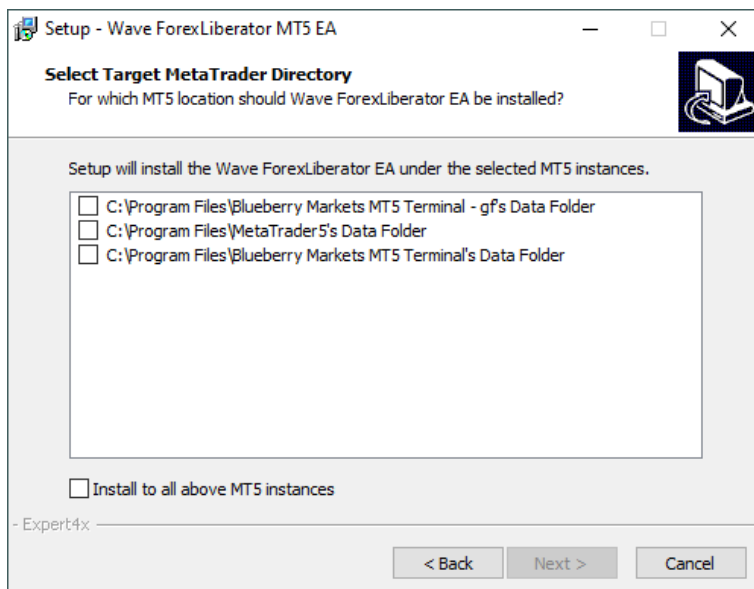
4. Click on the **Download EA Setup** button to download the EA setup for the MT5 terminal.



5. Run the downloaded setup application. Select the MT5 instance through the setup wizard pages to where you want the EA to be installed.
6. When the setup completes start the MT5 up. The Wave ForexLiberator EA entry should appear under the **Expert Advisors** node in the **Navigator** window (**View > Navigator**)

These pictures highlight the steps how to install the EA.



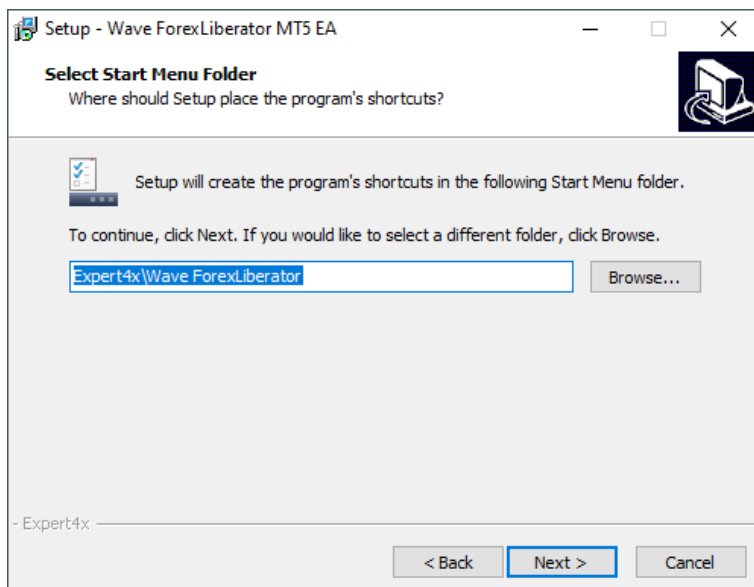


The setup application lists the available MT5 instances. Select one or multiple of them for installation target and click on the **Next**.

**Note:**

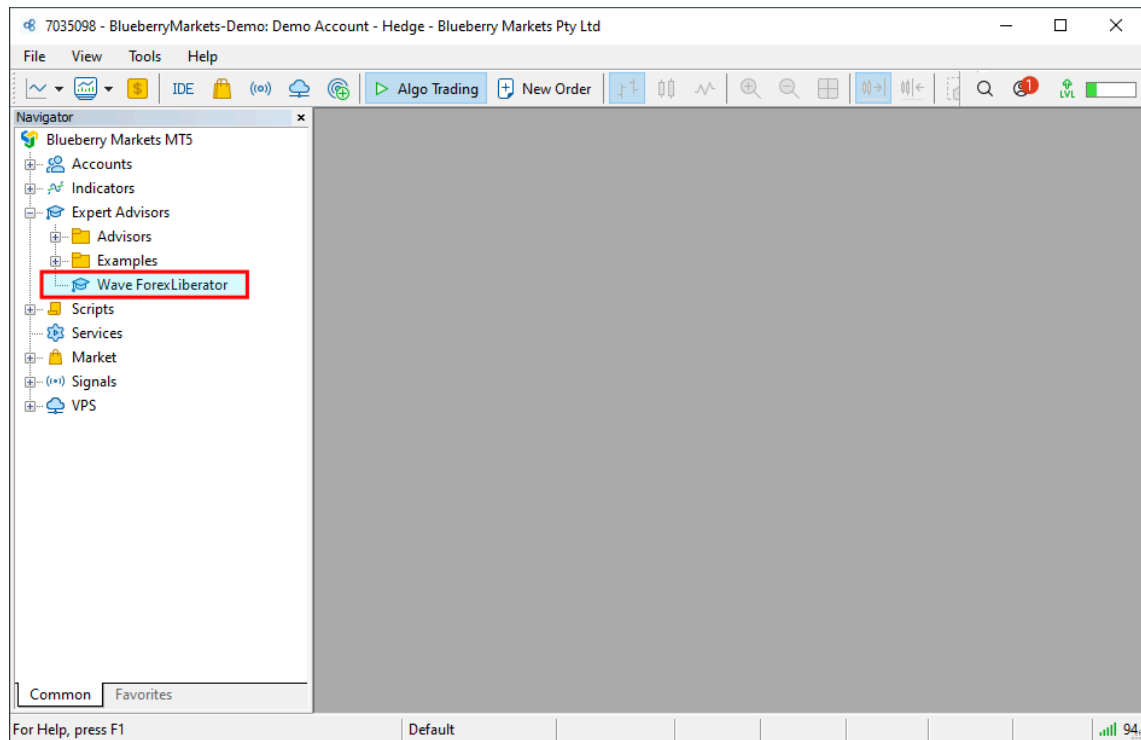
If you see an empty list then you probably need to install an MT5 first. In that case [download and run the MT5 setup application](#) from your preferred broker's web site. After that run again this EA setup application.

If you are an advanced user and you run the MT5 in portable mode from a custom location then copy this EA setup application into the Data Folder of the MT5, then run the EA setup application from that Data Folder. In order to find the Data Folder of the MT5 select the File > Open Data Folder in the MT5's menu.



When the installation is complete start the MT5 up and check that the EA appears in the **Navigator** window (**View > Navigator**):





Now everything is set up for the first activation of the Wave ForexLiberator Expert Advisor.

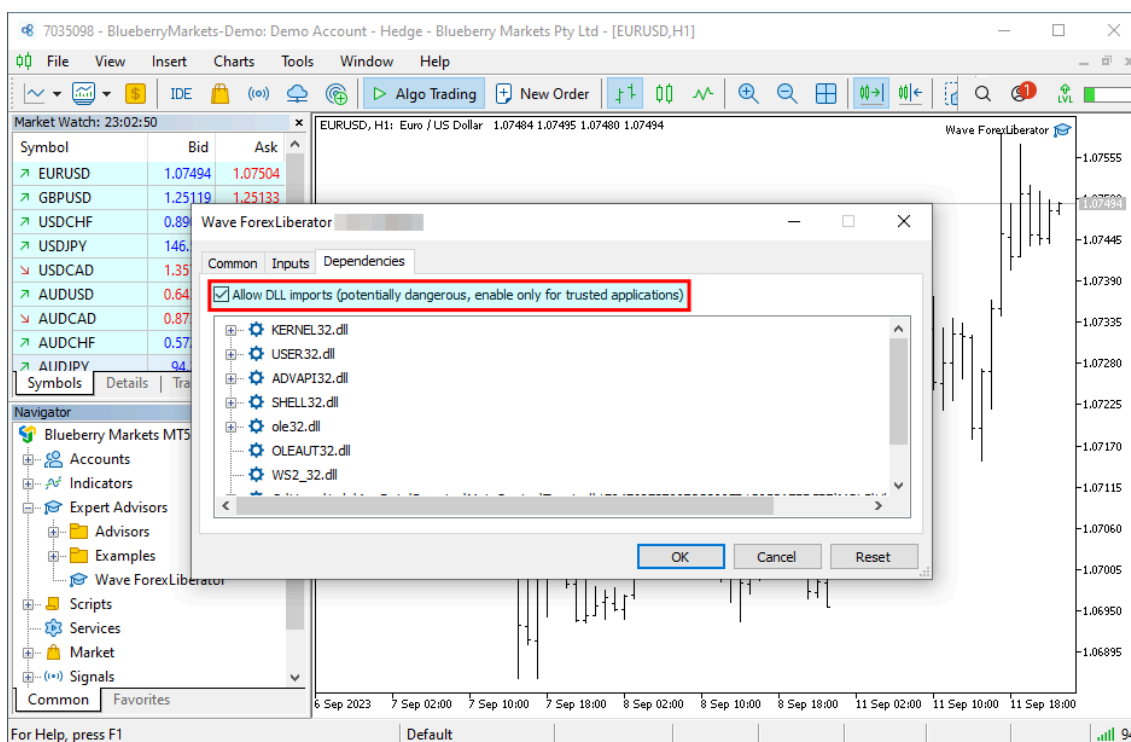
## 2.2 Wave ForexLiberator Expert Advisor First Time Activation

Step by step guide to get the EA up and running on a chart for the first time.

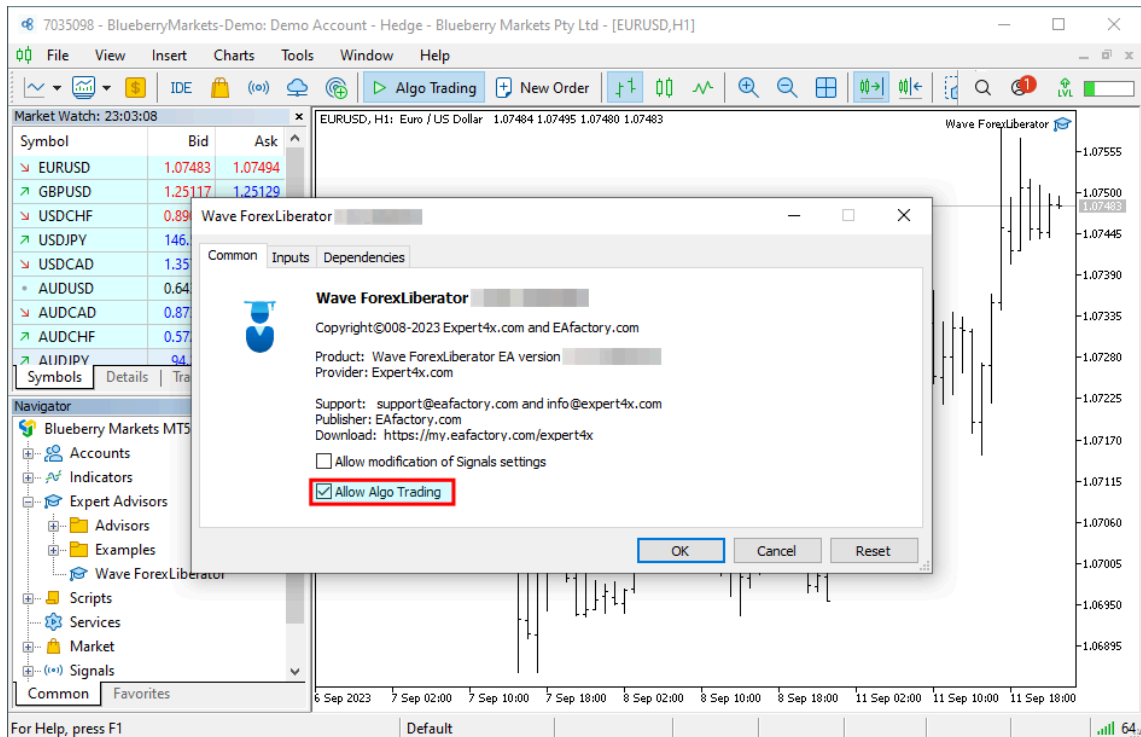
The following pictures demonstrate the first time activation of the Wave ForexLiberator Expert Advisor in a few steps.

### Attach the EA to a chart

1. Drag & drop the Wave ForexLiberator Expert Advisor from the **Navigator** window (**View > Navigator**) to a chart window. In the appearing properties window select the **Dependencies** tab and tick the checkbox **Allow DLL imports**:



## 2. Go to the **Common** tab and tick the checkbox **Allow Algo Trading**:



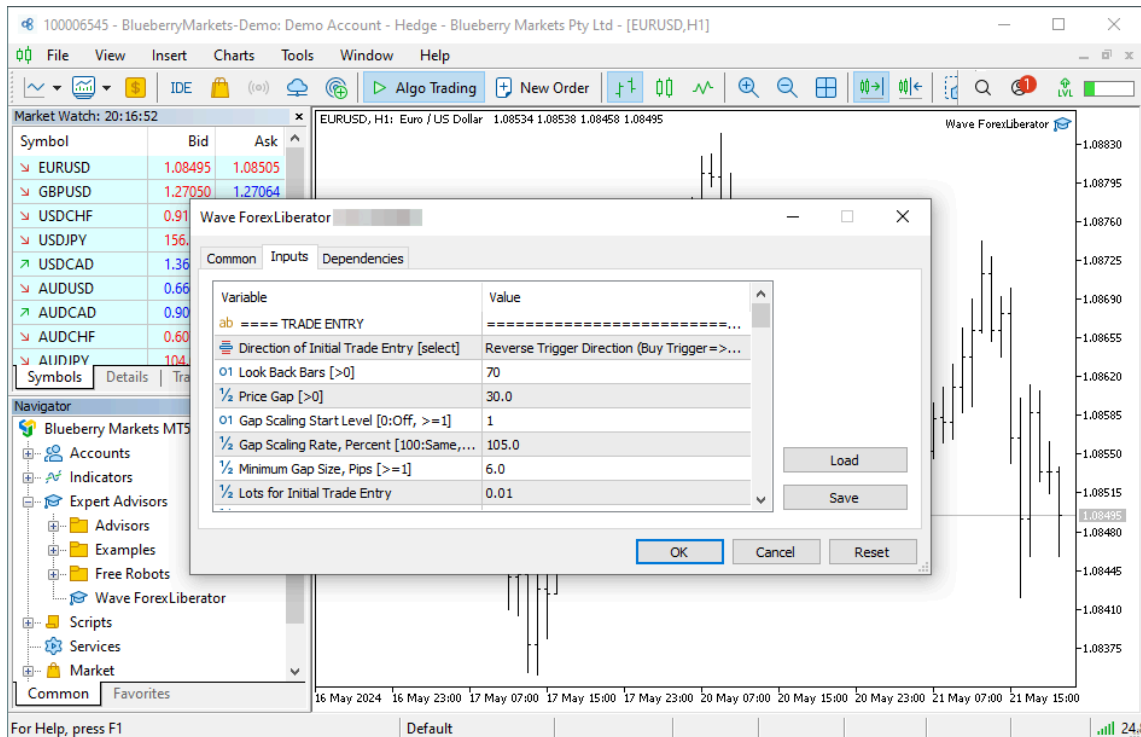
### Note:

Ensure that the

- **Allow DLL imports** and
- **Allow Algo Trading**

are **ticked** otherwise the Wave ForexLiberator EA is not able to start up.

### 3. Select the **Inputs** tab:



This lists the parameters of the EA where the operational aspect of the Wave ForexLiberator EA can be set up. For more details see the [Wave ForexLiberator EA Configuration Guide](#) – for now click on the **OK** button and let the EA start up with default settings.

#### Note:

At the very first time the EA may prompt for the Access ID to verify that the usage of product is licensed.

The Access ID is pre-configured and is the same as the login name to the web support site. Feel free to change your Access ID at the [Web Support Centre](#) and ensure not to share it with anyone else. Enter the Access ID and click on the **Save** button:

### Service Access Setup

Unknown Access ID. Please enter your valid Access ID.

Product:

Provider:

Access ID:

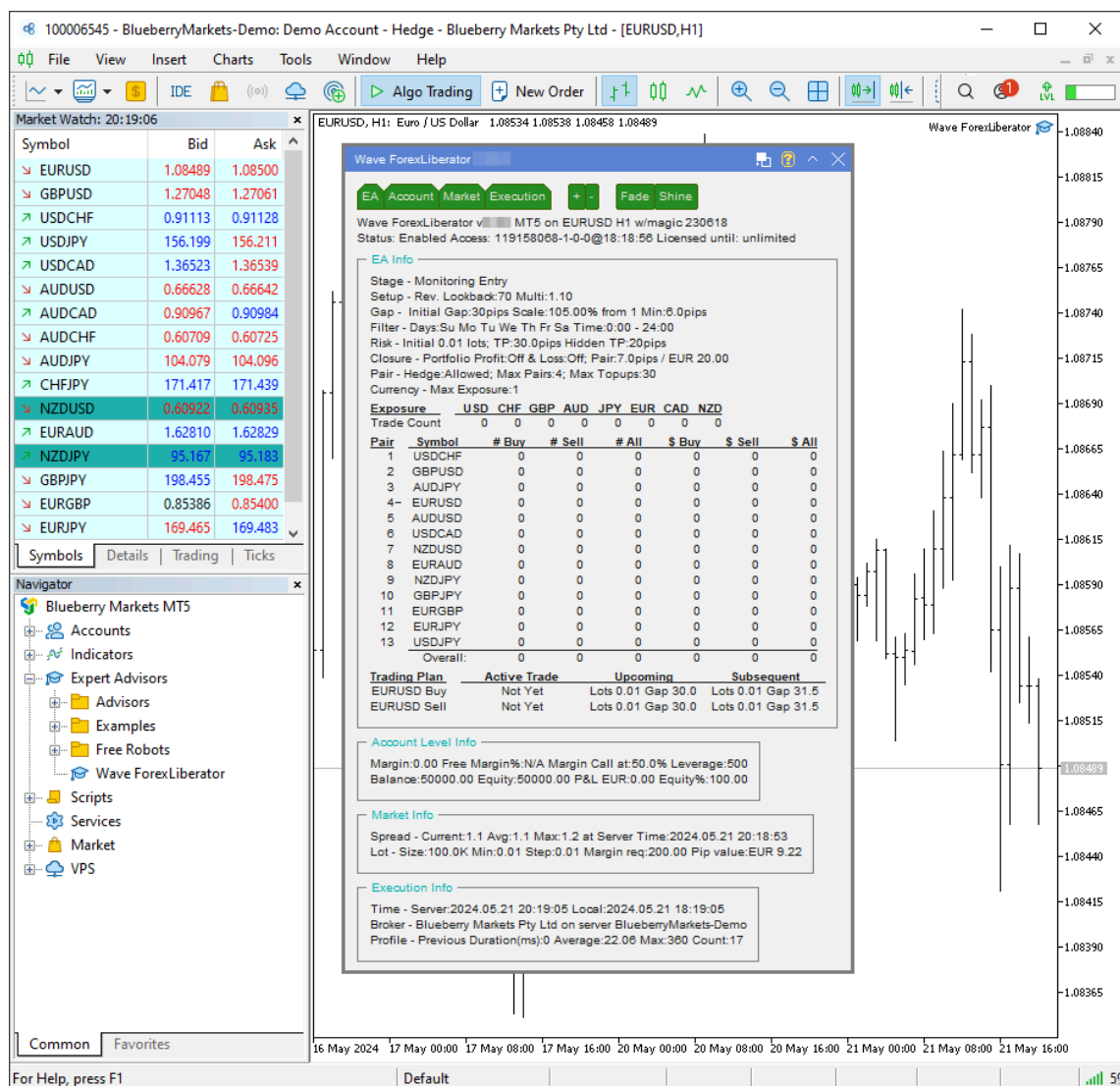
[Help! What is my Access ID?](#)

Dialog closes in 2 min 55 seconds

**Tip:** If you do not remember your Access ID then click on the **Help! What is my Access ID?** to see it on your [Web Support Centre user profile](#).

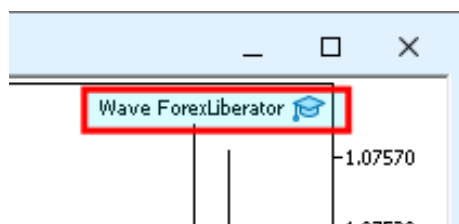
## The Wave ForexLiberator EA is up and running

After successful authentication the Wave ForexLiberator EA starts up.



The Wave ForexLiberator Expert Advisor has been attached to the chart. The smiley face in the top-right corner shows that the initialisation of the Wave ForexLiberator Expert Advisor was successful and the EA is now looking for trading opportunities.

See the smiley face in the corner:



In case of a problem getting the EA up and running please refer to the [Knowledgebase section](#).

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# Chapter

# 3

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## System Requirements

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Overview of prerequisites in order to install and get the product up and running.

### 3.1 Operating System Requirements

---

In order to operate the Wave ForexLiberator EA a Microsoft Windows operating system is required which supports MetaQuotes MetaTrader version 5.00 platform.

Note that the MetaQuotes MetaTrader software is also known and often referred to as MT5.

### 3.2 Hardware Requirements

---

The minimum Random Access Memory (RAM) requirement is 1024MB (1GB), however 2048MB (2GB) RAM is recommended to avoid extended virtual memory usage. Note that this memory requirement is for MetaTrader application only, excluding other applications running at the same time (e.g. MS Office). If other applications are running parallel with MetaTrader application please increase the RAM requirement accordingly.

### 3.3 MetaTrader (MT5) Requirements and Settings

---

The EA is compatible with MetaQuotes MetaTrader platform version 5.00 build 4260 or higher. In general this is referred to as MT5 terminal, build 4260 or newer.

### 3.4 Forex Broker Requirements

---

The Wave ForexLiberator EA is compatible with both 4 and 5-digit data feeds based brokers. The Wave ForexLiberator EA automatically detects the type of the feed and adjusts the EA parameter pip values if and when necessary.

Both fixed and variable spread broker platforms are supported.

The broker account must support retail hedging mode in order for the EA to operate. Note that the netting mode broker account is not compatible with the EA.

The selected MetaTrader based broker should allow keeping open orders on the account for long period of time, i.e. the broker should not close and re-open orders over night for swap calculation, or should not merge open orders for any reason.

**IMPORTANT:** For smooth trade management the MetaTrader application and the EA should be on-line, up and running during all market open hours (usually Sunday to Friday).

### 3.5 Hedging Support Requirements

---

The broker account must support the hedging of trades when the option *Both Buy & Sell Allowed on Same Pair at Same Time* is selected for the [Allow Buy & Sell the Same Pair at the Same Time](#).

Hedging support is not required on the broker account when the option *Only One Direction Allowed on Same Pair at Same Time* is selected for the [Allow Buy & Sell the Same Pair at the Same Time](#).

Do not trade the broker account manually and/or by other EAs along with the Wave ForexLiberator EA as trading the same markets can result in unintended hedging of trades on the same market.

The broker account must support retail hedging mode in order for the EA to operate. Note that the netting mode broker account is not compatible with the EA.

### 3.6 Non-FIFO Support Requirements

---

The broker account must support the order handling in non-FIFO manner when the option *Both Buy & Sell Allowed on Same Pair at Same Time* is selected for the [Allow Buy & Sell the Same Pair at the Same Time](#).

Do not trade the broker account manually and/or by other EAs along with the Wave ForexLiberator EA. Trading the same markets by multiple parties can result in demand to close a specific open trade first which is outside the control of the Wave ForexLiberator EA, i.e. blocking the trade executions and potentially causing losses.

The broker account must support retail hedging mode in order for the EA to operate. Note that the netting mode broker account is not compatible with the EA.

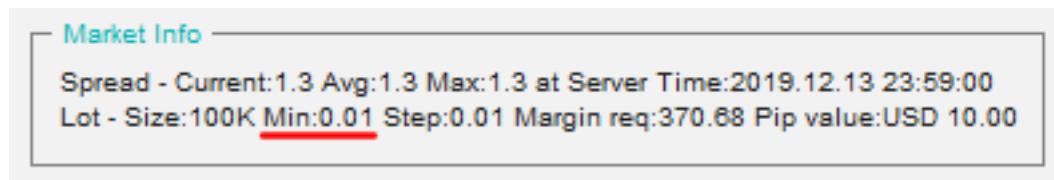
### 3.7 Account Type and Minimum Lot Size Requirements

---

The broker account must support retail hedging mode in order for the EA to operate. Note that the netting mode broker account is not compatible with the EA.

A so-called *Micro* broker account is necessary if the available funds for the EA trading is less than approx. \$1000. The micro account allows the EA to open a position with minimum lot size of 0.01. If you plan to use a broker account with the above funding please ensure that your broker account offers this minimum lot size.

An easy way to double check the minimum lot size available on the broker account is to attach the EA to a chart and check the *Market Info* section on the chart:



The *Lot* line shows *Min:0.01* which tells that the minimum lot size requirement is 0.01 on this broker account.

### 3.8 ECN/STP Broker Accounts

---

Many brokers offer Electronic Communications Network (ECN) or Straight Through Processing (STP) accounts. Common behaviour for these accounts is the variable spread and market orders where no initial stop loss and take profit targets can be specified. In this case the market order must be submitted with no SL and TP values, and these values are to be set in the second step using an additional order to the opened ticket.

The Wave ForexLiberator EA is compatible with the above ECN/STP broker accounts and needs no additional settings to operate on them.

# Chapter

# 4

## Wave ForexLiberator EA Configuration Guide

The Wave ForexLiberator EA configuration guide.

In order to activate the Wave ForexLiberator EA attach it to a chart window – for more details see [Wave ForexLiberator EA First Time Activation](#) section.

### 4.1 Configuration and Operation Principles

The Wave ForexLiberator EA operational overview.

The Wave ForexLiberator EA manages only those tickets (a.k.a positions) on the account which belong to the Wave ForexLiberator EA: every order submitted to the account is marked with the [Magic Number](#) and, in return, only those tickets on the account will be considered by the Wave ForexLiberator EA which are marked with this [Magic Number](#).

The Wave ForexLiberator EA may enter positions on [multiple markets](#) and keep them open for a period of time. The EA is NOT limited to the symbol of the chart it is attached to, it may open positions on [other symbols](#) as well.

In general it is recommended to run one Wave ForexLiberator EA on the same broker account at a time. This helps understanding the ongoing trades and troubleshoot situation if and when needed. If multiple Wave ForexLiberator EA instances are run at the same time (i.e. multiple charts hosting the Wave ForexLiberator EA) then each Wave ForexLiberator EA must have its own unique [Magic Number](#) configured for each chart.

Using multiple 3rd party expert advisors on the same account is only viable if each and all expert advisor can manage only their own tickets on the account by following the magic number based separation logic.

**IMPORTANT: If you plan to use multiple expert advisors (other than the Wave ForexLiberator EA) on the same account please ensure upfront with the expert advisor providers that their EA's are suitable for that as per the above.**

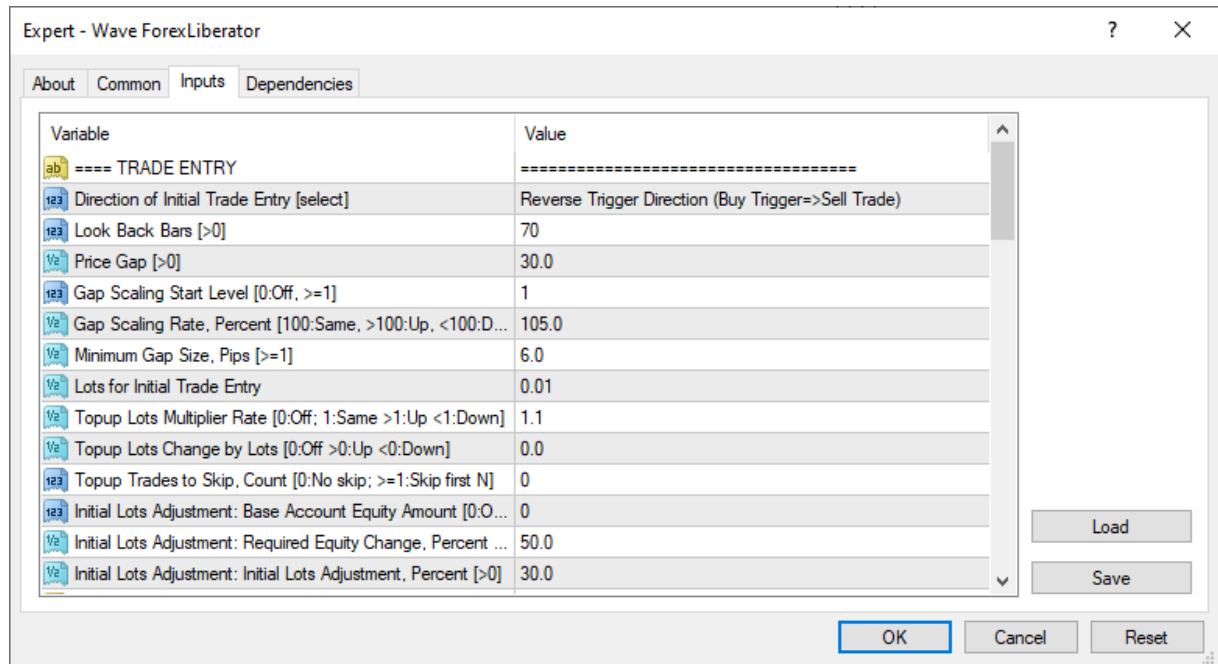
Market	MagicNumber
Single chart with the EA	EA default or any other
Multiple charts: EURUSD chart 1	14000
Multiple charts: EURUSD chart 2	14001
Multiple charts: EURUSD chart 3	14002
Multiple charts: GBPUSD chart 1	14003
Multiple charts: GBPUSD chart 2	14004
Multiple charts: GBPUSD chart 3	14005

### 4.2 Wave ForexLiberator EA Parameter Descriptions

The Wave ForexLiberator EA parameter descriptions.



## 4.2.1 TRADE ENTRY

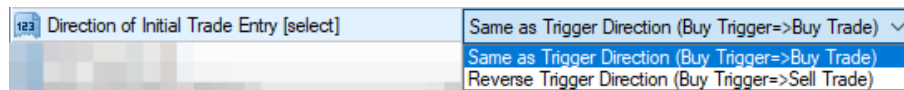


### Direction of Initial Trade Entry

#### Direction of Initial Trade Entry

The wave pattern may give a trade trigger and the direction of that trigger. This EA parameter decides to trade with that wave trigger direction for the initial trade or against that.

Any potential topup trades are always entered with direction of the initial trade, regardless of the wave pattern at that later time.



Direction of Initial Trade Entry	Description
Same as Trigger Direction	<p>The new trade is entered as:</p> <ul style="list-style-type: none"> <li>When the <b>wave pattern</b> identifies a <b>BUY</b> opportunity -&gt; opens a <b>BUY</b> position.</li> <li>When the <b>wave pattern</b> identifies a <b>SELL</b> opportunity -&gt; opens a <b>SELL</b> position.</li> </ul>
Reverse of Trigger Direction	<p>The new trade is entered as:</p> <ul style="list-style-type: none"> <li>When the <b>wave pattern</b> identifies a <b>BUY</b> opportunity -&gt; opens a <b>SELL</b> position.</li> <li>When the <b>wave pattern</b> identifies a <b>SELL</b> opportunity -&gt; opens a <b>BUY</b> position.</li> </ul>

Refer to the [examples](#) for more details.

1. [Example - Normal Entry](#)
2. [Example - Reverse Entry](#)

### Look Back Bars

## Look Back Bars

The number of recent bars used to identify the wave pattern in the chart.

The trade trigger and its direction is determined based on the bar formation over the last lookback number of closed bars (preceding the currently forming bar):

- Buy (long) direction: a new recent top is made after the bottom of the lookback period.
- Sell (short) direction: a new recent bottom is made after the top of the lookback period.

The initial trade's direction always follows the [Direction of Initial Trade Entry](#) selection. The direction of the subsequent topup trades always the same as of the initial trade.

The EA enters a new initial trade in line with the [Entry Window settings](#). However, the entry time of the subsequent topup trades are not limited to the [Entry Window](#) period, i.e. they can take place at any time and they are only based on price actions.

Refer to the [examples](#) for more details.

1. [Example - Normal Entry](#)
2. [Example - Reverse Entry](#)

## Price Gap

### Price Gap

Determines where the EA enters a new topup trade as the market price moves against the last topup by this number of pips. The topup trades will be gapped from each other by this number of pips, forming a ladder as the market price keeps moving against the initial trade.

Refer to the [examples](#) for more details.

1. [Example - Normal Entry](#)
2. [Example - Reverse Entry](#)
3. [Example - Trade Not More Than 2 Out of Multiple Markets](#)

## Gap Scaling Start Level

### Gap Scaling Start Level

When the market price goes against the direction of the initial trade the [Price Gap](#) is scaled up or down. The scaling starts when the price moves against the initial trade by this number of levels and applied to all the subsequent levels.

Refer to the [examples](#) for more details.

1. [Example - Scale Price Gap Up by Rate](#)
2. [Example - Scale Price Gap Down by Rate](#)

## Gap Scaling Rate

### Gap Scaling Rate

The percent rate of scaling by which the price gap gets bigger or smaller. When the market price goes against the direction of the initial trade the [Price Gap](#) is scaled up or down by this rate. The scaling starts when the price moves against the initial trade by [the configured price levels](#) and applied to all the subsequent levels.

The scaling is applied based on the value of this [Gap Scaling Rate](#) parameter:

Price Gap Scaling Rate	Description
Above 100	<p>Scales <b>UP</b> the price gap and it becomes bigger by that rate. For example:</p> <ul style="list-style-type: none"> <li>130 scales up to 130% of the previous gap (i.e. up by 30%)</li> <li>150 scales up to 150% of the previous gap (i.e. up by 50%)</li> <li>200 scales up to 200% of the previous gap (i.e. up by 100%)</li> </ul>
Exactly 100	No change to the price gap size. 100 means keep it the same, at the 100% of the previous level's gap.
Below 100	<p>Scales <b>DOWN</b> the price gap and it becomes smaller by that rate. For example:</p> <ul style="list-style-type: none"> <li>80 scales down to 80% of the previous gap (i.e. down by 20%)</li> <li>50 scales down to 50% of the previous gap (i.e. down by 50%)</li> <li>30 scales down to 30% of the previous gap (i.e. down by 70%)</li> </ul>

Refer to the [examples](#) for more details.

1. [Example - Scale Price Gap Up by Rate](#)
2. [Example - Scale Price Gap Down by Rate](#)

## Minimum Gap Size

### Minimum Gap Size

The lower limit or the floor for the price gap scaling, in pips. The price gap scaling may reduce the gap by the [rate](#) configured. The EA ensures that the scaled down gap never becomes smaller than this [Minimum Gap Size](#) pips.

Refer to the [examples](#) for more details.

1. [Example - Scale Price Gap Down by Rate](#)

## Lots for Initial Trade Entry

### Lots for Initial Trade Entry

The number of lots which is used to enter the initial trade. This initial lots size may get adapted according to the latest broker account funds by the [Initial Lots Adjustment](#) at the time of the initial trade entry.

The subsequent topup trades may have different lots sizing according to the [Topup Lots Multiplier](#) and [Topup Lots Change by Lots](#) settings.

Refer to the [examples](#) for more details.

1. [Example - Same Position Size All the Time](#)
2. [Example - Scale Lots Up by Multiplier](#)
3. [Example - Scale Lots Down by Multiplier](#)
4. [Example - Scale Lots Up by Amount](#)
5. [Example - Scale Lots Down by Amount](#)
6. [Example - Skip Topup and Scale Up by Multiplier](#)
7. [Example - Skip Topups and Scale Down by Multiplier](#)
8. [Example - Skip Topup and Scale Up by Amount](#)
9. [Example - Skip Topups and Scale Down by Amount](#)

## Topup Lots Multiplier

## Topup Lots Multiplier

The **rate** of change which is used to scale the lots size for the topup trades at each entry.

During the scaling the EA ensures that the scaled lots sizes stay within the broker required minimum and maximum lots range.

**Important:** The scaling values add up (compound) across the topup entries.

Topup Lots Multiplier	Description
Above 1.0	Scales <b>UP</b> the lots for the topup trade at the entry. For example: <ul style="list-style-type: none"> <li>1.3 scales up to 130% of the previous lots (i.e. up by 30%)</li> <li>1.5 scales up to 150% of the previous lots (i.e. up by 50%)</li> <li>2.0 scales up to 200% of the previous lots (i.e. up by 100%)</li> </ul>
Exactly 1.0	No change to the lots. 1.0 means keep it the same, at the 100% of the previous level's lots.
Below 1.0	Scales <b>DOWN</b> the lots for the topup trade at the next entry. For example: <ul style="list-style-type: none"> <li>0.8 scales down to 80% of the previous lots (i.e. down by 20%)</li> <li>0.5 scales down to 50% of the previous lots (i.e. down by 50%)</li> <li>0.3 scales down to 30% of the previous lots (i.e. down by 70%)</li> </ul>
Excatly 0.0	This lots multiplier is not used. Instead the <a href="#">Topup Lots Change by Lots</a> is used to scale the lots.

Refer to the [examples](#) for more details.

1. [Example - Same Position Size All the Time](#)
2. [Example - Scale Lots Up by Multiplier](#)
3. [Example - Scale Lots Down by Multiplier](#)
4. [Example - Skip Topup and Scale Up by Multiplier](#)
5. [Example - Skip Topups and Scale Down by Multiplier](#)

## Topup Lots Change by Lots

### Topup Lots Change by Lots

The **amount** of change which is used to scale the lots size for the topup trades at each entry.

During the scaling the EA ensures that the scaled lots sizes stay within the broker required minimum and maximum lots range.

**Important:** The scaling values add up (compound) across the topup entries.

Topup Lots Change by Lots	Description
Above 0.00	Scales <b>UP</b> the lots for the topup trade at the entry. For example: <ul style="list-style-type: none"> <li>0.01 scales up by adding 0.01 to the previous lots (i.e. up by 0.01 lots)</li> <li>0.50 scales up by adding 0.05 to the previous lots (i.e. up by 0.05 lots)</li> <li>0.10 scales up by adding 0.10 to the previous lots (i.e. up by 0.10 lots)</li> </ul>

Topup Lots Change by Lots	Description
Exactly 0.00	This change by lots is not used. Instead the <a href="#">Topup Lots Multiplier</a> is used to scale the lots.
Below 0.00	<p>Scales <b>DOWN</b> the lots for the topup trade at the next entry. For example:</p> <ul style="list-style-type: none"> <li>-0.01 scales down by subtracting 0.01 from the previous lots (i.e. down by 0.01 lots)</li> <li>-0.05 scales down by subtracting 0.05 from the previous lots (i.e. down by 0.05 lots)</li> <li>-0.10 scales down by subtracting 0.10 from the previous lots (i.e. down by 0.10 lots)</li> </ul>

Refer to the [examples](#) for more details.

1. [Example - Same Position Size All the Time](#)
2. [Example - Scale Lots Up by Amount](#)
3. [Example - Scale Lots Down by Amount](#)
4. [Example - Skip Topup and Scale Up by Amount](#)
5. [Example - Skip Topups and Scale Down by Amount](#)

## Topup Trades to Skip

### Topup Trades to Skip, Count

Provides an option **not** to enter the first couple of topup trades after the initial trade. The [scaling of the topup lots](#) still takes place even if some of the first topup trades are skipped.

Refer to the [examples](#) for more details.

1. [Example - Skip Topup and Scale Up by Multiplier](#)
2. [Example - Skip Topups and Scale Down by Multiplier](#)
3. [Example - Skip Topup and Scale Up by Amount](#)
4. [Example - Skip Topups and Scale Down by Amount](#)

## Initial Lots Adjustment: Base Account Equity Amount

### Initial Lots Adjustment: Base Account Equity Amount

Over time the broker account's equity may go up or down. The Initial Lots Adjustment allows for adapting the lots size of the initial trades to the account equity changes over time.

This parameter is the **starting (reference) equity amount at the time of first use of the EA**. This starting equity is later compared to the broker account equity amount at the time of a new initial trade entry and the lots size for the initial trade gets adjusted accordingly. The initial trade's lots may get adjusted up or down depending on the [Required Equity Change](#) and [Initial Lots Adjustment](#) settings. The subsequent topup trades apply their [topup lots scaling](#) to this adjusted initial lots size.

Refer to the [examples](#) for more details.

1. [Example - Same Initial Lots All the Time](#)
2. [Example - Initial Lots Adjustment Upward Only](#)
3. [Example - Initial Lots Adjustment Up & Down](#)

## Initial Lots Adjustment: Required Equity Change

## Initial Lots Adjustment: Required Equity Change

Determines **how often to scale** the lots for the initial trades. Every time the broker account equity grows (or decreases) by this much percentage then the initial trades' lots size gets adjusted up (or down).

Refer to the [examples](#) for more details.

1. [Example - Same Initial Lots All the Time](#)
2. [Example - Initial Lots Adjustment Upward Only](#)
3. [Example - Initial Lots Adjustment Up & Down](#)

## Initial Lots Adjustment: Initial Lots Adjustment

### Initial Lots Adjustment: Initial Lots Adjustment

Determines **by how much to scale** the lots for the initial trades. Every time the broker account equity grows (or decreases) by the [required percentage](#) then the initial trades' lots size gets adjusted up (or down) by [this](#) percentage.

Refer to the [examples](#) for more details.

1. [Example - Same Initial Lots All the Time](#)
2. [Example - Initial Lots Adjustment Upward Only](#)
3. [Example - Initial Lots Adjustment Up & Down](#)

## 4.2.2 INITIAL TRADE MANAGEMENT

Variable	Value
==== INITIAL TRADE MANAGEMENT	=====
Initial: Take Profit, Pips [0:Off]	30
Initial: Hidden TP, Pips [0:Off; <TakeProfit]	20
--- Initial Trade Trailing Stop	-----
Trailing Start at Profit, Pips [0:Off]	0
Trailing SL, Pips [>=1]	10
Trailing Stepping, Pips [>=1]	5
==== HEDGE TRADES MANAGEMENT	=====

## Initial: Take Profit

### Initial: Take Profit

Target profit value in pips for a new initial trade. The trade's TP is set to this Take Profit value on the broker server side.

When topup trades are entered this [take profit](#) is no longer used. Instead, a single exit price is calculated for all the basket of trades on the same market to achieve the target [dollar amount](#) or [pips](#) profit.

Refer to the [examples](#) for more details.

1. [Example - Entry with TP Only](#)
2. [Example - Entry with TP and Hidden TP](#)
3. [Example - Entry with TP, Hidden TP and Trailing](#)
4. [Example - Trade Not More Than 2 Out of Multiple Markets](#)

## 5. Example - FIFO Trading

### Initial: Hidden TP

#### Initial: Hidden TP

An alternative Take Profit value, in pips, which is not visible to the broker server and tracked by the EA. This hidden TP must be smaller than the [Initial: Take Profit](#).

When only the initial trade is open (i.e. no topup trades yet) and the initial trade reaches this hidden TP profit then the EA closes off the initial trade.

When topup trades are entered this [hidden TP](#) is no longer used.

Refer to the [examples](#) for more details.

1. [Example - Entry with TP Only](#)
2. [Example - Entry with TP and Hidden TP](#)
3. [Example - Entry with TP, Hidden TP and Trailing](#)
4. [Example - Trade Not More Than 2 Out of Multiple Markets](#)
5. [Example - FIFO Trading](#)

### Initial Trade Trailing Stop

Variable	Value
==== INITIAL TRADE MANAGEMENT	=====
Initial: Take Profit, Pips [0:Off]	30
Initial: Hidden TP, Pips [0:Off; <TakeProfit]	20
--- Initial Trade Trailing Stop	-----
Trailing Start at Profit, Pips [0:Off]	0
Trailing SL, Pips [>=1]	10
Trailing Stepping, Pips [>=1]	5
==== HEDGE TRADES MANAGEMENT	=====

Buttons: Load, Save, OK, Cancel, Reset

### Trailing Start at Profit

The trailing feature protects the profits so far achieved by moving the positions stop loss alongside the market price movements, keeping the stop loss behind the last high (or low) of price by a fixed distance. This trailing is only applied to the initial trade. When topup trades are entered this trailing feature is no longer used.

The EA starts off the trailing of price by moving an existing open position's stop loss when the position gets into profit by at least this [Trailing Start at Profit](#) pips. The [Trailing SL](#) distance is used to set the stop loss of the position. Once the trailing got activated, the SL gets adjusted every time when the price moves further and the position gets further into profit by [Trailing Stepping](#) pips.

Refer to the [examples](#) for more details.

1. [Example - Entry with TP Only](#)
2. [Example - Entry with TP and Hidden TP](#)
3. [Example - Entry with TP, Hidden TP and Trailing](#)
4. [Example - Trade Not More Than 2 Out of Multiple Markets](#)
5. [Example - FIFO Trading](#)

## Trailing SL

When trailing feature is activated, the SL of the position is set by this amount of pips behind the last high (or low) of price.

Refer to the [examples](#) for more details.

1. [Example - Entry with TP Only](#)
2. [Example - Entry with TP and Hidden TP](#)
3. [Example - Entry with TP, Hidden TP and Trailing](#)
4. [Example - Trade Not More Than 2 Out of Multiple Markets](#)

## Trailing Stepping

When trailing feature is activated this parameter tells how often the SL of the position has to be adjusted. Every time the position gets into further profit by this stepping pips the EA adjusts the SL of the position to lock in to the new profits.

Refer to the [examples](#) for more details.

1. [Example - Entry with TP Only](#)
2. [Example - Entry with TP and Hidden TP](#)
3. [Example - Entry with TP, Hidden TP and Trailing](#)
4. [Example - Trade Not More Than 2 Out of Multiple Markets](#)

## 4.2.3 HEDGE TRADES MANAGEMENT

Variable	Value
==== HEDGE TRADES MANAGEMENT	=====
Allow Buy & Sell the Same Pair at the Same Time [select]	Both Buy & Sell Allowed on Same Pair at Same Time
==== BASKET OF TRADES MANAGEMENT	=====
Pair: Target Closure \$ Amount [0:Off]	20.0
Pair: Target Profit Pips Closure [0:Off]	7.0
Portfolio: Closure at Profit \$ Amount [0:Off]	0.0
Portfolio: Closure at Maximum Loss \$ Amount [0:Off]	0.0
Portfolio: Reentry After Closure [select]	Reentry Allowed

Buttons: Load, Save, OK, Cancel, Reset

### Allow Buy & Sell the Same Pair at the Same Time

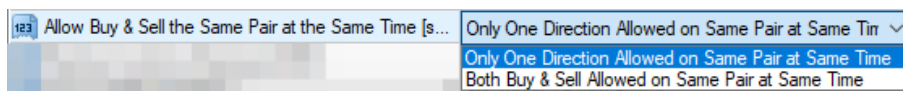
#### Allow Buy & Sell the Same Pair at the Same Time

Over time there could be buy as well as sell triggers on the same market, potentially resulting in hedged positions on the market. This EA parameter turns on or off the hedged trading of the same market.

**Note:** The EA manages and monitors its own trades only. Trades entered manually or by other EAs may interfere and result in hedging. If hedging is not desired then ensure that no trades are placed manually or by other EAs on the same [Pairs to Trade](#) or [Pairs to Get Out](#).

**Important:** The EA automatically turns off hedged trading for the [Pairs to Get Out](#), i.e. only allowing the one direction trading for those pairs. The purpose of this is to expedite getting out of those markets, however this may involve higher drawdowns for some or all of those markets.





Allow Buy & Sell the Same Pair at the Same Time	Description
Only One Direction Allowed on Same Pair at Same Time	The EA is NOT allowed to enter <b>buy</b> trades should there be existing open <b>sell</b> trades on the same market. Furthermore, the EA is NOT allowed to enter <b>sell</b> trades should there be existing open <b>buy</b> trades on the same market. This avoids the use of hedge on a traded market.
Both Buy & Sell Allowed on Same Pair at Same Time	The EA is allowed to enter and keep open both buy and sell trades over time on the same market, potentially resulting in hedged trades on the same market.

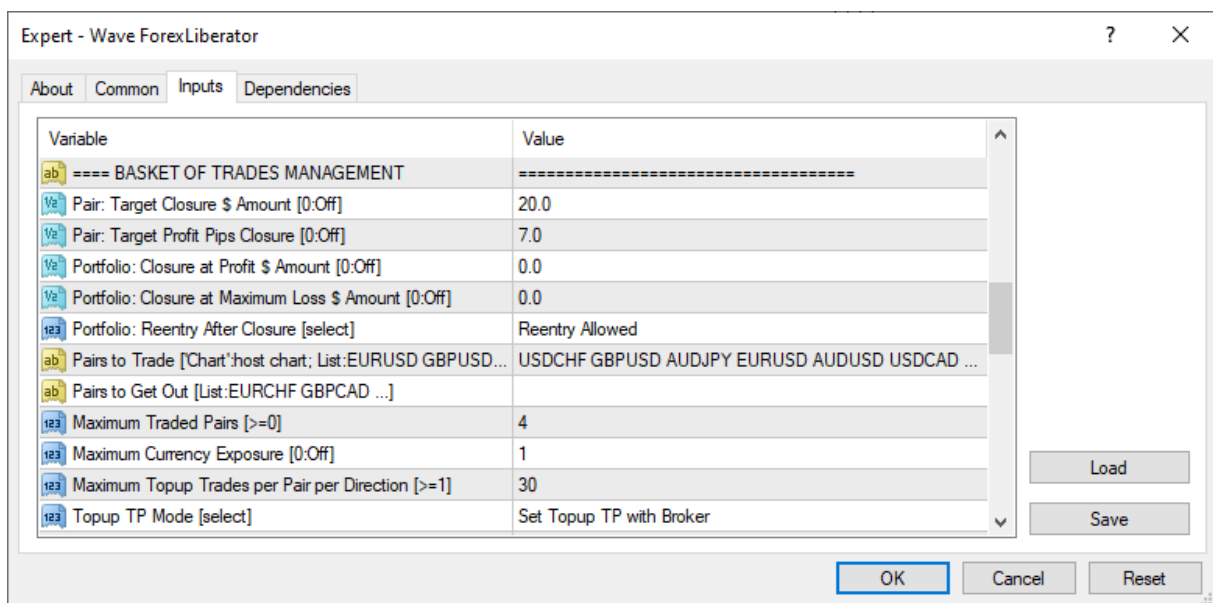


**Attention:** For brokers where hedging is not available or FIFO is observed the *Only One Direction*

Refer to the [examples](#) for more details.

1. [Example - Stop Trading of Certain Pairs](#)
2. [Example - FIFO Trading](#)

## 4.2.4 BASKET OF TRADES MANAGEMENT



### Pair: Target Closure \$ Amount

#### Pair: Target Closure \$ Amount

The **target profit dollar amount** for the initial and topup trades together on the same market, at which amount the closure of those initial and topup trades should take place. This is the exit point **in dollar amount** for all the open trades on the same market. After the closure the EA may stop or carry on with trading depending on the [Portfolio: Reentry After Closure](#) selection.

When there are no topups yet, but only the initial trade is open then this EA parameter is not used. Regarding the initial trade exit refer to the [INITIAL TRADE MANAGEMENT](#) section.

Refer to the [examples](#) for more details.

1. [Example - Closure at Profit Amount](#)
2. [Example - Closure at Pips Profit](#)
3. [Example - Trade Not More Than 2 Out of Multiple Markets](#)

## Pair: Target Profit Pips Closure

### Pair: Target Profit Pips Closure

The **target profit in pips** for the initial and topup trades together on the same market, at which pips profit the closure of those initial and topup trades should take place. This is the exit point **in pips** for all the open trades on the same market. After the closure the EA monitors [all the markets](#) for a new initial entry as usual.

When there are no topups yet, but only the initial trade is open then this EA parameter is not used. Regarding the initial trade exit refer to the [INITIAL TRADE MANAGEMENT](#) section.

Refer to the [examples](#) for more details.

1. [Example - Closure at Profit Amount](#)
2. [Example - Closure at Pips Profit](#)
3. [Example - Trade Not More Than 2 Out of Multiple Markets](#)

## Portfolio: Closure at Profit \$ Amount

### Portfolio: Closure at Profit \$ Amount

The **target profit dollar amount** for all the open trades across all the markets, at which amount the closure of all trades should take place. Should the profits of all the open trades by the EA reach or exceed this amount the EA closes off all its open trades across all the markets. After the closure the EA may stop or carry on with trading depending on the [Portfolio: Reentry After Closure](#) selection.

Refer to the [examples](#) for more details.

1. [Example - Closure at Portfolio Profit](#)
2. [Example - Stop Trading After Portfolio Closure](#)

## Portfolio: Closure at Maximum Loss \$ Amount

### Portfolio: Closure at Maximum Loss \$ Amount

The **dollar amount losses** for all the open trades across all the markets, at which amount the closure of all trades should take place. Should the losses of all the open trades by the EA reach or exceed this amount the EA closes off all its open trades across all the markets. After the closure the EA may stop or carry on with trading depending on the [Portfolio: Reentry After Closure](#) selection.

Refer to the [examples](#) for more details.

1. [Example - Closure at Portfolio Loss](#)
2. [Example - Stop Trading After Portfolio Closure](#)

## Portfolio: Reentry After Closure

### Portfolio: Reentry After Closure

Determines how to carry on with trading after a [closure of the portfolio](#).



Portfolio: Reentry After Closure	Description
Reentry Disabled	Trading is <b>not</b> allowed after a portfolio closure. The EA displays a popup window about the closeout and stops trading. This popup window must be dismissed in order to allow the EA to start trading again.
Reentry Allowed	Trading <b>is</b> allowed without any delay after a portfolio closure. This means that the EA monitors <a href="#">the markets</a> for new trade opportunities and <a href="#">enters new initial trades</a> as usual after a portfolio closure.

Refer to the [examples](#) for more details.

1. [Example - Closure at Portfolio Profit](#)
2. [Example - Closure at Portfolio Loss](#)
3. [Example - Stop Trading After Portfolio Closure](#)

## Pairs to Trade

### Pairs to Trade

The list of market names (e.g. forex pair names), separated by a space character, the EA is to trade.

When the EA should only trade the symbol of the chart (to which the EA is attached) then enter the word **chart** into this EA input.

In order to stop trading a pair with open trades remove the pair name from this [Pairs to Trade](#) and add it to the [Pairs to Get Out](#). For more details refer to the [Example - Stop Trading of Certain Pairs](#).

Refer to the [examples](#) for more details.

1. [Example - Trade Not More Than 2 Out of Multiple Markets](#)
2. [Example - Trade Max 1 Pair Involving the Same Currency](#)
3. [Example - Stop Trading of Certain Pairs](#)

## Pairs to Get Out

### Pairs to Get Out

The list of market names (e.g. forex pair names) for which the EA is to complete the ongoing trading sequence and after that to stop any further trading. For these pairs the EA still manages any open trades, may enter new topup trades in the future as necessary, and closes the open trades when the ongoing trading sequences reach their targets. However, the EA will not enter new initial trade on these pairs after the closure of the open trades. This provides a managed way to get out of trading of the listed markets over time. Once the EA has closed all open trades on a listed market that market name can be safely removed from this list.

All the EA settings - including the likes of the [gap scaling](#), [lots scaling](#), [pair and portfolio targets \(pips or amount\)](#), [maximum traded pairs](#) and [currency exposure](#) etc - are still applicable to this list, with the exception of the [hedged trades](#) settings:

**Important:** For the pairs listed in the [Pairs to Get Out](#) the hedged trading is **turned off automatically**: the *Only One Direction Allowed on Same Pair at Same Time* is selected for the [Allow Buy & Sell the Same Pair at the Same Time](#) for these particular pair names. The purpose of this is to expedite getting out of those markets, however this may involve higher drawdowns for some or all of those markets.

Refer to the [examples](#) for more details.

1. [Example - Stop Trading of Certain Pairs](#)

## Maximum Traded Pairs

### Maximum Traded Pairs

This limits the EA how many different markets can be traded at the same time. The combined [Pairs to Trade](#) and [Pairs to Get Out](#) lists may have 10 or more markets listed, however this EA parameter can limit the EA to trade only a certain number of them the most at the same time.

Refer to the [examples](#) for more details.

1. [Example - Trade Not More Than 2 Out of Multiple Markets](#)
2. [Example - Stop Trading of Certain Pairs](#)

## Maximum Currency Exposure

### Maximum Currency Exposure

This limits how many different pairs can be traded at the same time involving the same currency. Listing multiple EUR crosses like EURUSD EURJPY EURCHF as part of the [Pairs to Trade](#) and [Pairs to Get Out](#) while setting [this parameter](#) to 1 will ensure that the EA can have open trades for only one of those EUR crosses at the same time.

Refer to the [examples](#) for more details.

1. [Example - Trade Max 1 Pair Involving the Same Currency](#)

## Maximum Topup Trades per Pair per Direction

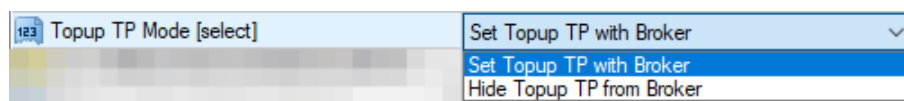
### Maximum Topup Trades per Pair per Direction

This limits the EA how many topup trades can be entered on the same market. This limit is indendently applied to the buy and the sell directions: if this limit is set to 10 then there could be up to 10 topups in the buy direction and another 10 topups in the sell direction, that is 20 topups in total, on the same market.

## Topup TP Mode

### Topup TP Mode

A choice whether to make the TP visible on the broker server or not. This choice is in effect when 1 or more topup trades have been entered after the initial trade.

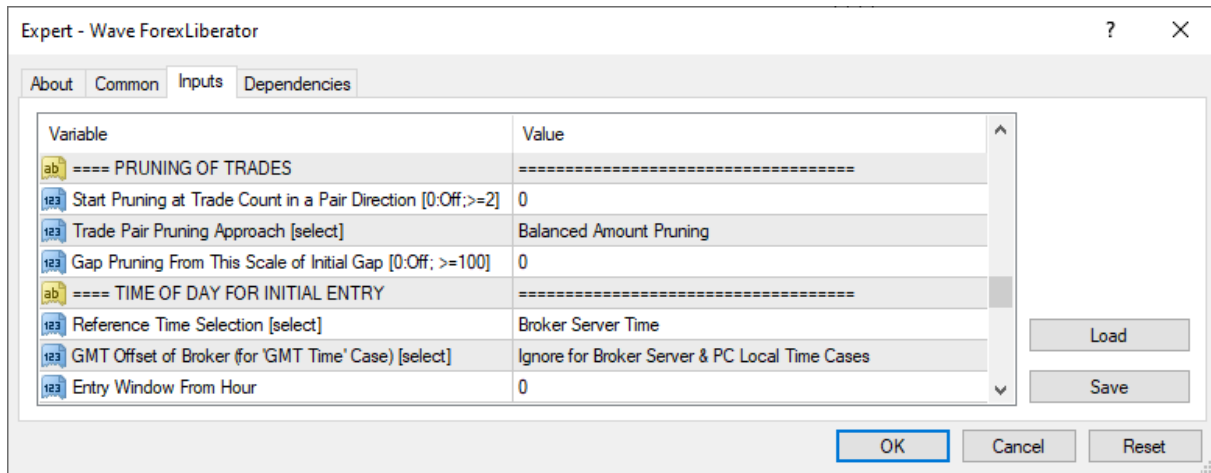


Topup TP Mode	Description
Set Topup TP with Broker	The TP <b>is visible</b> to the broker server and the TP <b>is set</b> for the open trades on the broker server. The broker server closes off the open trades on that market when the market price reaches the TP.
Hide Topup TP from Broker	The TP is <b>not visible</b> to the broker server and the TP is <b>not set</b> for the open trades on the broker server. The EA tracks the market price and when the market price reaches the TP the EA closes off all the open trades on that market.

Refer to the [examples](#) for more details.

1. [Example - FIFO Trading](#)

## 4.2.5 PRUNING OF TRADES



### Start Pruning at Trade Count in a Pair Direction

#### Start Pruning at Trade Count in a Pair Direction

The number of open trades on a pair, in either buy or sell direction, when pruning is to take place for that direction. The EA looks for opportunities to reduce the number of those open trades once this trade count is reached.

The pruning has two tiers:

- Pruning by pair of trades: [Trade Pair Pruning Approach](#)
- Pruning by scaled gap retracement: [Gap Pruning From This Scale of Initial Gap](#)

The gap retracement based pruning kicks in when the gap scaling is turned on and the last gap grows to a certain size. Otherwise the pruning is performed by pair of trades.

Refer to the [examples](#) for more details.

1. [Example - Balanced Amount Pruning](#)
2. [Example - First & Last Trades Pruning](#)
3. [Example - Gap Pruning](#)

#### Related reference

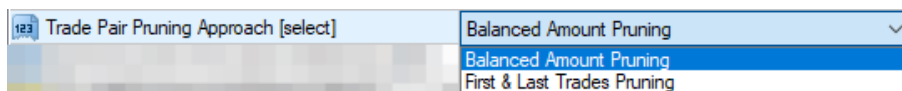
[Trade Pair Pruning Approach](#) on page 29

[Gap Pruning From This Scale of Initial Gap](#) on page 30

### Trade Pair Pruning Approach

#### Trade Pair Pruning Approach

Selects the way how to pick the pair of open trades for pruning. The pruning always picks two open trades which are in the same direction (both buy or sell) and on the same pair.



Trade Pair Pruning Approach	Description
Balanced Amount Pruning	<p>When the most recent topup retraces to the previous level then the EA matches this topup (which is in profit) with another trade which has suitable losses to close out those two trades with a combined small profit or small loss amount. In the case of no matching trade was available to deliver a small profit or loss then no pruning takes place, i.e. no pair of trades gets closed out.</p> <p>The small combined profit amount outcome is preferred over the a small loss amount - provided that the small loss is not more than 10% of the profits of the retracing topup trade.</p>
First & Last Trades Pruning	<p>When the most recent topup retraces to the previous level the EA closes that topup and the initial (or oldest) trades. This approach does not take into consideration the combined profit or loss amounts, instead it reduces the overall price range covered by the open trades.</p>

Refer to the [examples](#) for more details.

1. [Example - Balanced Amount Pruning](#)
2. [Example - First & Last Trades Pruning](#)

#### Related reference

[Start Pruning at Trade Count in a Pair Direction](#) on page 29

[Gap Pruning From This Scale of Initial Gap](#) on page 30

## Gap Pruning From This Scale of Initial Gap

### Gap Pruning From This Scale of Initial Gap

The gap pruning kicks in when the latest gap size grows into this scale rate of the initial gap. As an example, when this EA parameter has the value of 200, and the latest gap becomes twice as big as the initial gap then this gap pruning gets applied instead of the [Trade Pair Pruning Approach](#).

The gap pruning closes the most recent topup trade when it retraces half of the last gap size. This gap pruning makes an attempt to cash-in some profits when the gap grew wide.

Refer to the [examples](#) for more details.

1. [Example - Gap Pruning](#)

#### Related reference

[Start Pruning at Trade Count in a Pair Direction](#) on page 29

[Trade Pair Pruning Approach](#) on page 29

## 4.2.6 TIME OF DAY FOR INITIAL ENTRY

Variable	Value
===== TIME OF DAY FOR INITIAL ENTRY	=====
Reference Time Selection [select]	Broker Server Time
GMT Offset of Broker (for 'GMT Time' Case) [sele...	Ignore for Broker Server & PC Local Time Cases
Entry Window From Hour	0
Entry Window From Minute	0
Entry Window Until Hour	24
Entry Window Until Minute	0
Monday Trade Entry [select]	Entry Enabled
Tuesday Trade Entry [select]	Entry Enabled
Wednesday Trade Entry [select]	Entry Enabled
Thursday Trade Entry [select]	Entry Enabled
Friday Trade Entry [select]	Entry Enabled
Saturday Trade Entry [select]	Entry Enabled
Sunday Trade Entry [select]	Entry Enabled

Buttons: Load, Save, OK, Cancel, Reset

### Reference Time Selection

#### Reference Time Selection

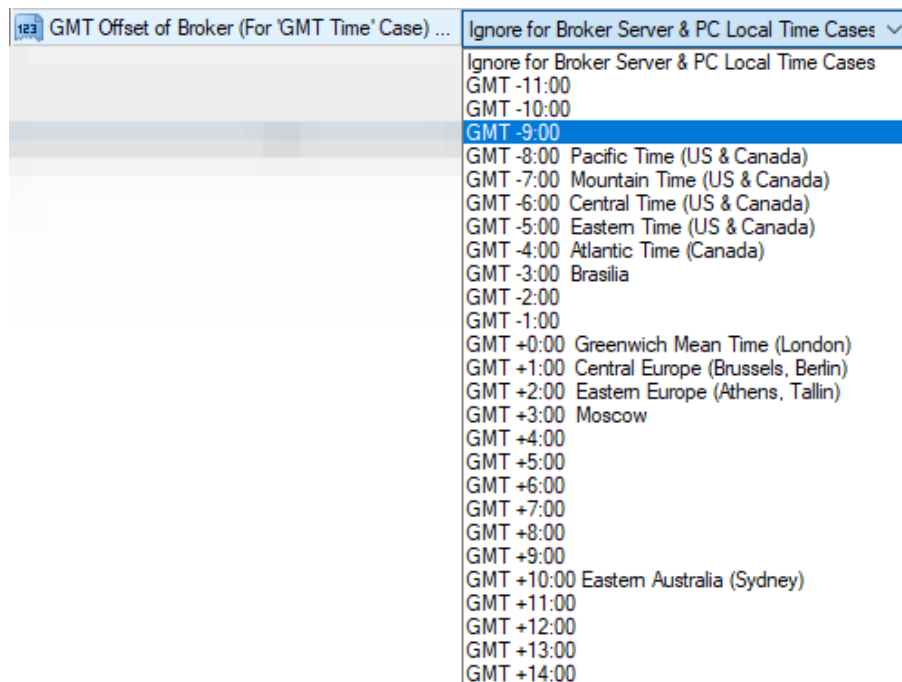
Selects the nature of the time used by the EA when time specific actions are performed.

Reference Time Selection	Description
Broker Server Time	Entry window hour and minute settings are relevant to the broker's server time. See below picture showing the broker server time in the Market Watch window.
PC Local Time	Entry window hour and minute settings are relevant to the local time of the PC hosting the MT5 terminal and EA. When setting up the time parameters consider the time zone differences between the market open hours versus the PC local time.
GMT Time (Set GMT Offset Below)	<p>Entry window hour and minute settings are relevant to the selected GMT offset.</p> <p>This feature is useful to keep the entry window hour and minute settings the same when the EA is executed across different brokers. In this case only the broker GMT offset needs to be set on the different brokers' MT5 instances, and the EA adjusts automatically the entry window for the broker.</p> <p>In this case, use the <a href="#">GMT Offset of Broker</a> to select the broker offset and always set the window hour values in GMT +0 time zone.</p>

## GMT Offset of Broker

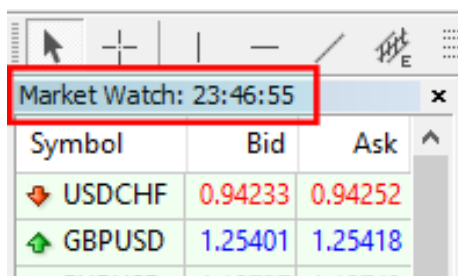
### GMT Offset of Broker

The time zone shift of the MT5 broker's server time. This parameter is only required if *GMT Time* option is selected for the [Reference Time Selection](#).



Unfortunately MT5 terminal does not provide this broker GMT offset information therefore a query to the broker maybe needed to get this value. As an alternative, one may make an attempt to calculate this offset through the following steps:

1. The Market Watch window's header shows the broker's server time, press Ctrl+M in the MT5 terminal:



This time can be compared to the GMT+0 time to calculate the GMT offset of the broker.

2. In a web browser search for *gmt time* keywords to see the current GMT time.
3. Then compare the search result of current GMT time to the current time displayed by the Market Watch window of the MT5 terminal. The difference of the two times gives the broker GMT offset.

Based on past experience, with no guarantee that the information is correct, these are a few sample broker GMT offsets observed as of July 2015:

MT5 Terminal	Broker	GMT Offset
AxiTrader	AxiCorp Financial Services Pty Ltd	+3
IC Markets	International Capital Markets Pty Ltd	+3
InstaForex	InstaForex Companies Group	+3
FXCM	Forex Capital Markets Inc	+3



MT5 Terminal	Broker	GMT Offset
ThinkForex	TF Global Markets (Aust) Pty Ltd	+3
RoboForex EU	RoboForex (CY) Ltd	+3
Tallinex	Tallinex Ltd	0
Oanda	OANDA Corporation	-4
MB Trading FX	MB Trading Futures Inc	-4

The value in the *GMT Offset* column could be used for the EA parameter [GMT Offset of Broker](#).

## Entry Window From Hour/Minute - Entry Window Until Hour/Minute

### Entry Window From Hour/Minute - Entry Window Until Hour/Minute

Limits the period of a day when a new position entry may take place.

The From Hour & Minute is inclusive, while the Until Hour & Minute is exclusive. The following table shows examples how to configure these parameters for the entry window period:

Desired Entry Period	Entry Window From	Entry Window Until
8 – 10 (i.e. 8:00.00–9:59.59)	Hour = 8 & Minute = 0	Hour = 10 & Minute = 0
10 – 17 (i.e. 10:00.00-16:59.59)	Hour = 10 & Minute = 0	Hour = 17 & Minute = 0
All Day	Hour = 0 & Minute = 0	Hour = 24 & Minute = 0

The entry window from and until hours are specific to the selected time at [Reference Time Selection](#).

## Monday ... Sunday Trade Entry

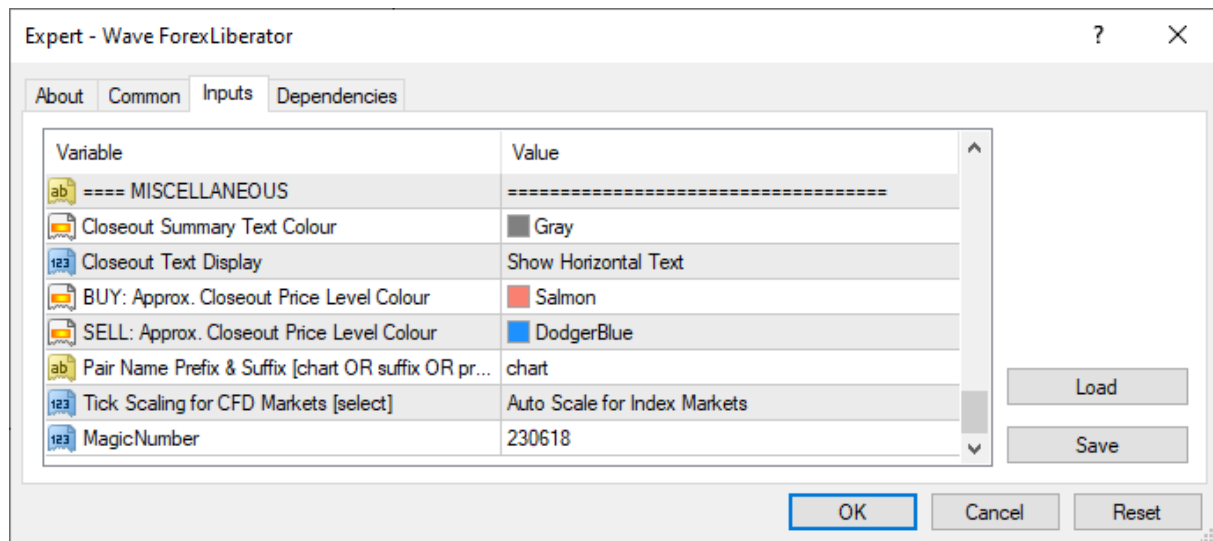
### Monday ... Sunday Trade Entry

Days allowed for new position entry. Subsequent management of stop loss or exit of already open trades may happen outside of the enabled days, only the entry of new positions is limited to the selected days:

Monday Trade Entry [select]	Entry Enabled
Tuesday Trade Entry [select]	No Entry
Wednesday Trade Entry [select]	Entry Enabled
Thursday Trade Entry [select]	Entry Enabled
Friday Trade Entry [select]	Entry Enabled
Saturday Trade Entry [select]	Entry Enabled
Sunday Trade Entry [select]	Entry Enabled

Day of Week Trade Entry	Description
No Entry	No new entry is executed on that day. Stop Loss management, if turned on, for existing open positions are still executed as normal.
Entry Enabled	New entry is allowed for the day when all other entry criteria are met.

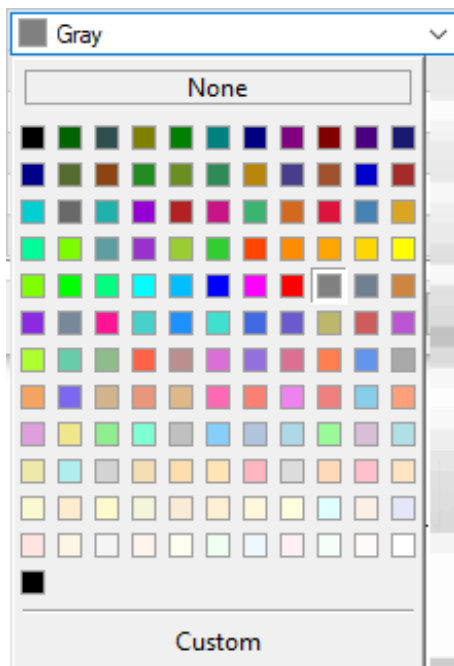
## 4.2.7 MISCELLANEOUS



### Closeout Summary Text Colour

#### Closeout Summary Text Colour

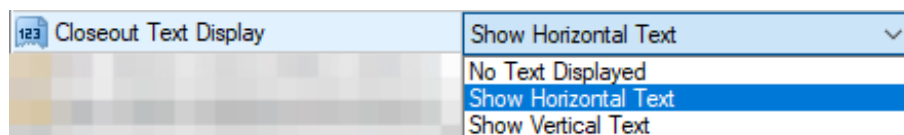
The colour of the text in the chart describing the summary of the closure, e.g. upon [Initial: Hidden TP](#) or [Portfolio: Closure at Maximum Loss \\$ Amount](#) events.



### Closeout Text Display

#### Closeout Text Display

The presentation of the closure summary in the chart area.



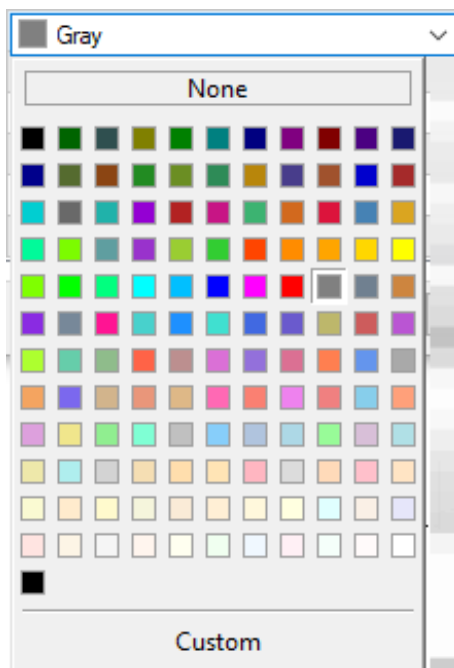
Closeout Text Display	Description
No Text Displayed	No details of the closeout gets displayed in the chart area.
Show Horizontal Text	The details of the closeout gets displayed in a <b>horizontal</b> line in the chart area.
Show Vertical Text	The details of the closeout gets displayed in a <b>vertical</b> line in the chart area.

## BUY:Approx. Closeout Price Level Colour

### BUY:Approx. Closeout Price Level Colour

The colour of the line in the chart area giving an approximate estimate where the exit to take place for open **sell** trades. The exit level is determined by one of the [Initial: Take Profit](#), [Initial: Hidden TP](#), [Pair: Target Closure \\$ Amount](#) or [Pair: Target Profit Pips Closure](#).

**Important:** Due to the variable spread, commissions, exchange rate fluctuations etc this line represents a best effort estimate only. The actual closure may take place below or above this estimated line.

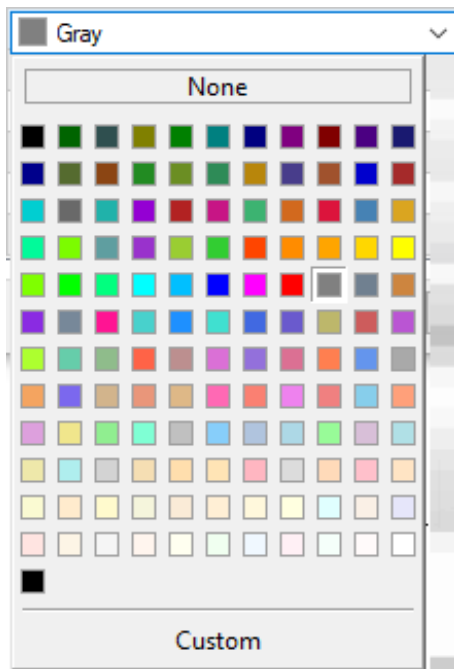


## SELL:Approx. Closeout Price Level Colour

### SELL:Approx. Closeout Price Level Colour

The colour of the line in the chart area giving an approximate estimate where the exit to take place for open **buy** trades. The exit level is determined by one of the [Initial: Take Profit](#), [Initial: Hidden TP](#), [Pair: Target Closure \\$ Amount](#) or [Pair: Target Profit Pips Closure](#).

**Important:** Due to the variable spread, commissions, exchange rate fluctuations etc this line represents a best effort estimate only. The actual closure may take place below or above this estimated line.



## Pair Name Prefix & Suffix

### Pair Name Prefix & Suffix

There are standard market names which are commonly used for currency pairs, like EURUSD, GBPUSD, USDCHF, USDJPY etc. Many broker offers these standard market names on their MT5 platform, however some brokers may add some prefix or suffix to the market names resulting in broker specific symbols like EURUSDdecn, EURUSD.r or mEURUSD etc.

As a convenience, the EA makes an attempt to discover the broker specific prefix and suffix and use those automatically. Alternatively, the prefix and the suffix can be manually configured as well. The below table shows the different approaches how to configure the prefix and suffix parts of the market symbols for trading.

Approach	Input Entered into <a href="#">Pair Name Prefix &amp; Suffix</a>	Trading Outcome Examples
The chart's symbol is used to automatically discover the prefix & suffix	<b>chart</b>	When the EA is attached to the EURUSD chart then it trades the EURUSD GBPUSD USDCHF etc symbols with no prefix or suffix.
		When the EA is attached to the EURUSD. <u>r</u> chart then it trades the EURUSD. <u>r</u> GBPUSD. <u>r</u> USDCHF. <u>r</u> etc symbols with the .r suffix.

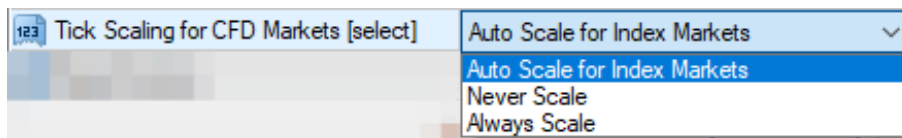
Approach	Input Entered into Pair Name Prefix & Suffix	Trading Outcome Examples
		When the EA is attached to the <u>mEURUSD.r</u> chart then it trades the <u>mEURUSD.r</u> <u>mGBPUSD.r</u> <u>mUSDCHF.r</u> etc symbols with the <b>m</b> prefix and <b>.r</b> suffix.
Manual entry of suffix only	<b>.r</b>	The EA always trades the <u>EURUSD.r</u> <u>GBPUSD.r</u> <u>USDCHF.r</u> etc symbols with the <b>.r</b> suffix.
Manual entry of prefix & suffix	<b>m .r</b>	The EA always trades the <u>mEURUSD.r</u> <u>mGBPUSD.r</u> <u>mUSDCHF.r</u> etc symbols with the <b>m</b> prefix and <b>.r</b> suffix.

If the prefix and suffix should be added to other non-FOREX symbol names as well (like US30) then add the word **always** to the end of the [Pair Name Prefix & Suffix](#).

## Tick Scaling for CFD Markets

### Tick Scaling for CFD Markets

Provides a consistent tick, pip, cent and point values across various markets and brokers. This is specific to stock indices, metal, commodity etc markets keeping the cent or dollar unit consistently applied. Wherever the EA is configured with a 'Pip' value then it is consistently mapped to the cent or dollar unit for those non-FOREX markets.



Tick Scaling for CFD Markets	Description
Auto Scale for Index Markets	Based on the characteristics of the market the EA automatically recognizes if the underlying market was a stock index market, like the US30, GER30 or JP225 etc. In this case the 'pip' values configured for the EA are scaled up to the 'dollar' value of the index: 12345.67
Never Scale	The EA does not scale up the 'pip' values even if the market could be recognized as a stock index market.
Always Scale	The EA applies the scaling up of the 'pip' values to the 'dollar' value even if the market could not be recognized as stock index market. This option is useful if the 'dollar' based approach is desired for trading.

**Note:** The EA always deals with the fractional pip values therefore there is no need to increase the 'pip' values for brokers with 1, 3 or 5-digit data feed.

**Examples:**

Trading Approach	Chart of Market	Stop Loss EA Parameter Value	Tick Scaling for CFD Markets Value	Buy Entry Fill Price	Calculated Stop Loss Value	Description
Index market with \$1.00 unit	US30	100	Auto Scale for Index Markets Alternative: Always Scale	261 <u>2</u> 3.90	260 <u>2</u> 3.90	The EA scales the 100 'pips' parameter to market price of 100.00 US dollar units (i.e. 100.00 points)
FOREX pair with 0.0001 unit	EURUSD	100	Auto Scale for Index Markets Alternative: Never Scale	1.13 <u>4</u> 12	1.12 <u>4</u> 12	The EA keeps the 100 'pips' parameter as it is
Gold market with \$0.01 unit	XAUUSD	100	Auto Scale for Index Markets Alternative: Never Scale	1288. <u>2</u> 3	1287. <u>2</u> 3	The EA maps the 100 'pips' parameter to 100 cent units
Gold market with \$1.00 unit	XAUUSD	100	Always Scale	1 <u>2</u> 88.23	1 <u>1</u> 88.23	The EA maps the 100 'pips' parameter to 100 dollar units
Oil market with \$0.01 unit	USOil	100	Auto Scale for Index Markets Alternative: Never Scale	56. <u>7</u> 52	55. <u>7</u> 52	The EA maps the 100 'pips' parameter to 100 cent units

Trading Approach	Chart of Market	Stop Loss EA Parameter Value	Tick Scaling for CFD Markets Value	Buy Entry Fill Price	Calculated Stop Loss Value	Description
Oil market with \$1.00 unit	USOil	10	Always Scale	56.752	46.752	The EA maps the 10 'pips' parameter to 10 dollar units
Copper market with \$0.01 unit	COPPER	100	Auto Scale for Index Markets Alternative: Never Scale	2.9245	1.9245	The EA maps the 100 'pips' parameter to 100 cent units
Cocoa market with \$0.01 unit	COCOA	100	Auto Scale for Index Markets Alternative: Never Scale	2160	2060	The EA maps the 100 'pips' parameter to 100 cent units
Natural gas market with \$0.01 unit	NGAS	100	Auto Scale for Index Markets Alternative: Never Scale	2.843	1.843	The EA maps the 100 'pips' parameter to 100 cent units

## Magic Number

### Magic Number

The EA marks its orders with this value when submitting to the broker account, and picks up orders which are marked with this magic number value. When you want to have multiple charts with the EA at the same time then change this *MagicNumber* to a new and unique number for each chart. Also ensure that none of other 3rd party EAs are using the same *MagicNumber* value. See [Configuration and Operation Principles section](#) for more explanation.

## 4.2.8 Examples

Settings examples.

### Example - Normal Entry

#### Example - Normal Entry

- **Goal:** I want **with the trend** trades which are triggered by the wave pattern. I want to do the chart pattern analysis over the last 80 bars for the initial entry. I want the first topup to enter when the price moves 30 pips against the initial trade.

- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Look Back Bars** = 80
  2. **Price Gap** = 30
- **Description:** The EA monitors all the markets listed at the **Pairs to Trade**. When the wave pattern triggers an entry on a market in a direction which is not yet traded then the EA enters the initial trade on that market. The initial trade is entered as a buy after the bottom of the 80 bars lookback period and a sell after the top of the 80 bars. That initial trade gets closed off when it hits **one of its targets**. Should the initial trade go into 30 pips loss the EA enters the first topup. Every time the last topup goes into 30 pips loss the EA again enters a subsequent topup. The basket of the initial and the topup trades on a market gets closed off when their combined profit reaches the **target amount** or **target pips** profits.

## Example - Reverse Entry

### Example - Reverse Entry

- **Goal:** I want **against the trend** trades which are triggered by the wave pattern. I want to do the chart pattern analysis over the last 80 bars for the initial entry. I want the first topup to enter when the price moves 30 pips against the initial trade.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Direction of Initial Trade Entry** = *Reverse Trigger Direction*
  2. **Look Back Bars** = 80
  3. **Price Gap** = 30
- **Description:** The EA monitors all the markets listed at the **Pairs to Trade**. When the wave pattern triggers an entry on a market in a direction which is not yet traded then the EA enters the initial trade on that market. The initial trade is entered as sell (reverse of buy) after the bottom of the 80 bars lookback period and buy (reverse of sell) after the top of the 80 bars. That initial trade gets closed off when it hits **one of its targets**. Should the initial trade go into 30 pips loss the EA enters the first topup. Every time the last topup goes into 30 pips loss the EA again enters a subsequent topup. The basket of the initial and the topup trades on a market gets closed off when their combined profit reaches the **target amount** or **target pips** profits.

## Example - Entry with TP Only

### Example - Entry with TP Only

- **Goal:** I want to use 30 pips for Take Profit for the initial trade. This TP is sent with the trade to the broker server and visible to other traders. I do not want to use hidden TP which is only visible to me.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Initial: Take Profit** = 30
  2. **Initial: Hidden TP** = 0
  3. **Trailing Start at Profit** = 0
- **Description:** Upon a new trade trigger on a not yet traded market the EA enters the initial trade. The EA sets the 30 pips TP for the open initial trade. This TP is sent to the broker server therefore the broker can see it and close the trade when the market price hits the TP.

## Example - Entry with TP and Hidden TP

### Example - Entry with TP and Hidden TP

- **Goal:** I want to use 30 pips for Take Profit for the initial trade. This TP is sent with the trade to the broker server and visible to other traders. I also want to use 25 pips for hidden TP which is only visible to me.



- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Initial: Take Profit** = 30
  2. **Initial: Hidden TP** = 25
  3. **Trailing Start at Profit** = 0
- **Description:** Upon a new trade trigger on a not yet traded market the EA enters the initial trade. The EA sets the 30 pips TP for the open initial trade. This TP is sent to the broker server therefore the broker can see it and close the trade when the market price hits the TP. The EA also monitors the market price and closes off the initial trade when the price hits the 25 pips hidden TP.

## Example - Entry with TP, Hidden TP and Trailing

### Example - Entry with TP, Hidden TP and Trailing

- **Goal:** I want to use 30 pips for Take Profit for the initial trade. This TP is sent with the trade to the broker server and visible to other traders. I also want to use 25 pips for hidden TP which is only visible to me. I want to trail the initial trade when it reaches 10 pips profit, with 8 pips trailing stop loss. The trailing should happen every time the initial trade makes another 2 pips profit.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Initial: Take Profit** = 30
  2. **Initial: Hidden TP** = 25
  3. **Trailing Start at Profit** = 10
  4. **Trailing SL** = 8
  5. **Trailing Stepping** = 2
- **Description:** Upon a new trade trigger on a not yet traded market the EA enters the initial trade. The EA sets the 30 pips TP for the open initial trade. This TP is sent to the broker server therefore the broker can see it and close the trade when the market price hits the TP. The EA also monitors the market price and closes off the initial trade when the price hits the 25 pips hidden TP. Furthermore, the EA starts adjusting the SL of the initial trade when trade gets into 10 pips profit. At the start the EA sets the SL to 8 pips behind the market price high for a buy (or low for a sell), then keeps updating the SL every time the price makes another high (or low) by 2 pips or more. During trailing, the EA keeps the SL of the initial trade 8 pips behind the recent market price high (or low).

## Example - Trade Not More Than 2 Out of Multiple Markets

### Example - Trade Not More Than 2 Out of Multiple Markets

- **Goal:** I want to monitor the EURUSD, GBPUSD, AUDUSD, USDCAD and USDCHF markets but trade not more than 2 of them at the same time. I want to do the chart pattern analysis over the last 70 bars for initial trade triggers. For the initial trade I want to use 30 pips take profit sent to the broker along with 25 pips hidden TP, and trailing SL of 10 pips which kicks off at 12 pips profit and the SL to be adjusted after 1 pip of extra profit. I want to add topups when the initial trade goes into 30 pips loss and close out all the trades when the combined profit of the open initial and topups trades reaches 7 pips.

- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Look Back Bars** = 70
  2. **Price Gap** = 30
  3. **Initial: Take Profit** = 30
  4. **Initial: Hidden TP** = 25
  5. **Trailing Start at Profit** = 12
  6. **Trailing SL** = 10
  7. **Trailing Stepping** = 1
  8. **Pair: Target Closure \$ Amount** = 0
  9. **Pair: Target Profit Pips Closure** = 7
  10. **Pairs to Trade** = EURUSD GBPUSD AUDUSD USDCAD USDCHF
  11. **Maximum Traded Pairs** = 2
- **Description:** The EA monitors all the EURUSD, GBPUSD, AUDUSD, USDCAD and USDCHF markets. When the pattern analysis **triggers an entry** on a market then the EA enters an initial trade provided that no other market or only 1 of the other markets is being currently traded. The initial trade is entered as a buy after the bottom of the 70 bars lookback period and a sell after the top of the 70 bars. The EA sets the 30 pips TP for the new initial trade. This TP is sent to the broker server therefore the broker can see it & close the trade when the market price hits the 30 pips TP. The EA also monitors the market price and closes off the initial trade when the price hits the 25 pips hidden TP. Furthermore, the EA starts adjusting the SL of the initial trade when the trade gets into 12 pips profit. At the start, the EA sets the SL to 10 pips behind the market price high for a buy (or low for a sell), then keeps updating the SL every time the price makes another high (or low) by 1 pip or more. During trailing, the EA keeps the SL of the initial trade 10 pips behind the recent market price high (or low). On the other hand, should the initial trade go into 30 pips loss the EA enters the first topup. Every time the last topup goes into 30 pips loss the EA again enters a subsequent topup. The basket of the initial and the topup trades on that market gets closed off when their combined profit becomes 7 pips or more.

### Example - Trade Max 1 Pair Involving the Same Currency

#### Example - Trade Max 1 Pair Involving the Same Currency

- **Goal:** I want to monitor the EURUSD, GBPUSD, EURJPY, GBPJPY, CADCHF and USDCHF markets but trade the same currency (e.g. the EUR, the GBP, the CAD or the CHF currency) only once across these pairs at the same time.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Pairs to Trade** = EURUSD GBPUSD EURJPY GBPJPY CADCHF USDCHF
  2. **Maximum Currency Exposure** = 1
- **Description:** The EA monitors all the EURUSD, GBPUSD, EURJPY, GBPJPY, CADCHF and USDCHF markets. The EA may enter and keep open trades as per the following pattern:

When Trade Entered on this Pair	Which Involves These Currencies	Then These Pairs are NOT Allowed for Trading	These Pairs ARE Allowed for Trading
EURUSD	EUR USD	EURJPY GBPUSD USDCHF	GBPJPY CADCHF
GBPUSD	GBP USD	GBPJPY EURUSD USDCHF	EURJPY CADCHF
EURJPY	EUR JPY	EURUSD GBPJPY	GBPUSD CADCHF USDCHF
GBPJPY	GBP JPY	GBPUSD EURJPY	EURUSD CADCHF USDCHF

When Trade Entered on this Pair	Which Involves These Currencies	Then These Pairs are NOT Allowed for Trading	These Pairs ARE Allowed for Trading
CADCHF	CAD CHF	- USDCHF	EURUSD GBPUSD EURJPY GBPJPY
USDCHF	USD CHF	EURUSD GBPUSD CADCHF	EURJPY GBPJPY

In short, the EA trades the pairs in such a way that each currency gets exposed not more than once across the open trades.

### Example - Stop Trading of Certain Pairs

#### Example - Stop Trading of Certain Pairs

- **Goal:** I want to stop trading some of the JPY crosses even though I already have open trades on those JPY crosses. Currently my trading pairs list consists of the USDCHF GBPUSD AUDJPY EURUSD AUDUSD USDCAD NZDUSD EURAUD NZDJPY GBPJPY EURGBP EURJPY USDJPY markets but I only want to keep the USDJPY for trading and I want to get out on all other JPY crosses.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Pairs to Trade** = USDCHF GBPUSD EURUSD AUDUSD USDCAD NZDUSD EURAUD EURGBP USDJPY
  2. **Pairs to Get Out** = AUDJPY NZDJPY GBPJPY EURJPY
- **Description:** The EA manages existing trades, may enter new topup trades and close the open trades on the pairs USDCHF GBPUSD EURUSD AUDUSD USDCAD NZDUSD EURAUD EURGBP USDJPY as well as on the pairs AUDJPY NZDJPY GBPJPY EURJPY, observing the usual [gap scaling](#), [lots scaling](#), [pair and portfolio targets \(pips or amount\)](#), [maximum traded pairs](#) and [currency exposure](#) etc settings across all of these two lists of pairs. However, the EA will not enter new initial trade on the AUDJPY NZDJPY GBPJPY EURJPY pairs, the EA only enters initial trade on the USDCHF GBPUSD EURUSD AUDUSD USDCAD NZDUSD EURAUD EURGBP USDJPY pairs. Also, the EA automatically [turns off hedged trading](#) and allowing for [only one direction](#) trading for the AUDJPY NZDJPY GBPJPY EURJPY pairs, therefore the drawdown could be higher for some of those pairs.

### Example - Scale Price Gap Up by Rate

#### Example - Scale Price Gap Up by Rate

- **Goal:** I want to start with 10 pips gap size and I want the EA to start **scaling up** the gap size when the price moves against the first trade by 2 or more price levels. In that case I want to make the gap sizes bigger by 50%, compounding for each subsequent level.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Price Gap** = 10
  2. **Gap Scaling Start Level** = 2
  3. **Gap Scaling Rate** = 150

Below shows the price gaps in pips to be used for the trade entries:

Price Level	Effective Gaps after BUY Initial Trade	Effective Gaps after SELL Initial Trade
Up 6	-	75.9
Up 5	-	50.6
Up 4	-	33.8

Price Level	Effective Gaps after BUY Initial Trade	Effective Gaps after SELL Initial Trade
Up 3	-	22.5
Up 2	-	15
Up 1	Exit at <a href="#">Closure Target</a>	10
Initial Entry	10	10
Down 1	10	Exit at <a href="#">Closure Target</a>
Down 2	15	-
Down 3	22.5	-
Down 4	33.8	-
Down 5	50.6	-
Down 6	75.9	-

### Example - Scale Price Gap Down by Rate

#### Example - Scale Price Gap Down by Rate

- **Goal:** I want to start with 10 pips gap size and I want the EA to start **scaling down** the price gap size when the price moves against the first trade by 2 or more price levels. In that case I want to make the gap sizes reduced to 80% of the gap (i.e. smaller by 20%), compounding for each subsequent level, however I do not want the gap size to become less than 5 pips.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. [Price Gap](#) = 10
  2. [Gap Scaling Start Level](#) = 2
  3. [Gap Scaling Rate](#) = 80
  4. [Minimum Gap Size](#) = 5

Below shows the price gaps in pips to be used for the trade entries:

Price Level	Effective Gaps after BUY Initial Trade	Effective Gaps after SELL Initial Trade
Up 6	-	5
Up 5	-	5
Up 4	-	5.1
Up 3	-	6.4
Up 2	-	8
Up 1	Exit at <a href="#">Closure Target</a>	10
Initial Entry	10	10
Down 1	10	Exit at <a href="#">Closure Target</a>
Down 2	8	-
Down 3	6.4	-
Down 4	5.1	-
Down 5	5	-
Down 6	5	-

## Example - Same Initial Lots All the Time

### Example - Same Initial Lots All the Time

- **Goal:** I want the initial trades to use the same 0.01 lots all the time.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Lots for Initial Trade Entry** = 0.01
  2. **Initial Lots Adjustment: Base Account Equity Amount** = 0
- **Description:** The EA enters the initial trades with the 0.01 lots, regardless of the equity of the broker account.

## Example - Initial Lots Adjustment Upward Only

### Example - Initial Lots Adjustment Upward Only

- **Goal:** My broker account equity currently is 10000 and I want to start trading with 0.01 lots for the initial trades. Then, every time when my account equity grows by 50% I want to scale up the initial trades' lots by 30%.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Lots for Initial Trade Entry** = 0.01
  2. **Initial Lots Adjustment: Base Account Equity Amount** = 10000
  3. **Initial Lots Adjustment: Required Equity Change** = 50
  4. **Initial Lots Adjustment: Initial Lots Adjustment** = 30
- **Description:** The below table shows the lots to be used for the initial trade entries:

P&L Progression	Base Equity	Current Equity	Lots for Initial Trade
...	10 000	lower ...	always 0.01
3rd Losses of 50%	10 000	1 250	0.01
2nd Losses of 50%	10 000	2 500	0.01
1st Losses of 50%	10 000	5 000	0.01
<b>Start of Trading</b>	<b>10 000</b>	<b>10 000</b>	<b>0.01</b>
1st Profits of 50%	10 000	15 000	0.01
2nd Profits of 50%	10 000	22 500	0.02
3rd Profits of 50%	10 000	33 750	0.02
4th Profits of 50%	10 000	50 625	0.03
5th Profits of 50%	10 000	75 937	0.04
...	10 000	higher ...	compounding 30%

This example assumes that the broker minimum lots requirement is 0.01 for the market. As a result the initial lots size is only ever adjusted upwards.

## Example - Initial Lots Adjustment Up & Down

### Example - Initial Lots Adjustment Up & Down

- **Goal:** My broker account equity currently is 10000 and I want to start trading with 0.10 lots for the initial trades. Then, every time when my account equity grows or shrinks by 50% I want to scale up or down the initial trades' lots by 30%, correspondingly.

- **How-to:** Here is an example EA configuration how to achieve the above:
  1. [Lots for Initial Trade Entry](#) = 0.10
  2. [Initial Lots Adjustment: Base Account Equity Amount](#) = 10000
  3. [Initial Lots Adjustment: Required Equity Change](#) = 50
  4. [Initial Lots Adjustment: Initial Lots Adjustment](#) = 30
- **Description:** The below table shows the lots to be used for the initial trade entries:

P&L Progression	Base Equity	Current Equity	Lots for Initial Trade
...	10 000	lower ...	drops to 0.01
3rd Losses of 50%	10 000	1 250	0.03
2nd Losses of 50%	10 000	2 500	0.05
1st Losses of 50%	10 000	5 000	0.07
<b>Start of Trading</b>	<b>10 000</b>	<b>10 000</b>	<b>0.10</b>
1st Profits of 50%	10 000	15 000	0.13
2nd Profits of 50%	10 000	22 500	0.17
3rd Profits of 50%	10 000	33 750	0.22
4th Profits of 50%	10 000	50 625	0.29
5th Profits of 50%	10 000	75 937	0.37
...	10 000	higher ...	compounding 30%

### Example - Same Position Size All the Time

#### Example - Same Position Size All the Time

- **Goal:** I want all the trades to use the same 0.01 lots all the time.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. [Lots for Initial Trade Entry](#) = 0.01
  2. [Topup Lots Multiplier](#) = 1.0
  3. [Topup Lots Change by Lots](#) = 0.0
- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	always 0.01
Up 6	-	0.01
Up 5	-	0.01
Up 4	-	0.01
Up 3	-	0.01
Up 2	-	0.01
Up 1	Exit at <a href="#">Initial's Target</a>	0.01
Initial Entry	0.01	0.01
Down 1	0.01	Exit at <a href="#">Initial's Target</a>
Down 2	0.01	-
Down 3	0.01	-

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Down 4	0.01	-
Down 5	0.01	-
Down 6	0.01	-
Down ...	always 0.01	-

### Example - Scale Lots Up by Multiplier

#### Example - Scale Lots Up by Multiplier

- **Goal:** I want to start with 0.01 lots and scale up by 50% for each topup.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. [Lots for Initial Trade Entry](#) = 0.01
  2. [Topup Lots Multiplier](#) = 1.5
  3. [Topup Lots Change by Lots](#) = 0.0
- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	growing ...
Up 7	-	0.17
Up 6	-	0.11
Up 5	-	0.08
Up 4	-	0.05
Up 3	-	0.03
Up 2	-	0.02
Up 1	Exit at <a href="#">Initial's Target</a>	0.02
Initial Entry	0.01	0.01
Down 1	0.02	Exit at <a href="#">Initial's Target</a>
Down 2	0.02	-
Down 3	0.03	-
Down 4	0.05	-
Down 5	0.08	-
Down 6	0.11	-
Down 7	0.17	-
Down ...	growing ...	-

### Example - Scale Lots Down by Multiplier

#### Example - Scale Lots Down by Multiplier

- **Goal:** I want to start with 0.10 lots and scale down to 70% for each topup.

- **How-to:** Here is an example EA configuration how to achieve the above:

1. **Lots for Initial Trade Entry** = 0.10
2. **Topup Lots Multiplier** = 0.7
3. **Topup Lots Change by Lots** = 0.0

This example assumes that the broker minimum lots requirement is 0.01 for the market.

- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	stays 0.01
Up 7	-	0.01
Up 6	-	0.01
Up 5	-	0.02
Up 4	-	0.02
Up 3	-	0.03
Up 2	-	0.05
Up 1	Exit at <b>Initial's Target</b>	0.07
Initial Entry	0.10	0.10
Down 1	0.07	Exit at <b>Initial's Target</b>
Down 2	0.05	-
Down 3	0.03	-
Down 4	0.02	-
Down 5	0.02	-
Down 6	0.01	-
Down 7	0.01	-
Down ...	stays 0.01	-

## Example - Scale Lots Up by Amount

### Example - Scale Lots Up by Amount

- **Goal:** I want to start with 0.01 lots and scale up by 0.01 lots for each topup.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Lots for Initial Trade Entry** = 0.01
  2. **Topup Lots Multiplier** = 0
  3. **Topup Lots Change by Lots** = 0.01
- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	growing ...
Up 7	-	0.08
Up 6	-	0.07
Up 5	-	0.06
Up 4	-	0.05



Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up 3	-	0.04
Up 2	-	0.03
Up 1	Exit at <a href="#">Initial's Target</a>	0.02
Initial Entry	0.01	0.01
Down 1	0.02	Exit at <a href="#">Initial's Target</a>
Down 2	0.03	-
Down 3	0.04	-
Down 4	0.05	-
Down 5	0.06	-
Down 6	0.07	-
Down 7	0.08	-
Down ...	growing ...	-

### Example - Scale Lots Down by Amount

#### Example - Scale Lots Down by Amount

- **Goal:** I want to start with 0.10 lots and scale down by 0.02 for each topup.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. [Lots for Initial Trade Entry](#) = 0.10
  2. [Topup Lots Multiplier](#) = 0.0
  3. [Topup Lots Change by Lots](#) = -0.02

This example assumes that the broker minimum lots requirement is 0.01 for the market.

- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	stays 0.01
Up 7	-	0.01
Up 6	-	0.01
Up 5	-	0.01
Up 4	-	0.02
Up 3	-	0.04
Up 2	-	0.06
Up 1	Exit at <a href="#">Initial's Target</a>	0.08
Initial Entry	0.10	0.10
Down 1	0.08	Exit at <a href="#">Initial's Target</a>
Down 2	0.06	-
Down 3	0.04	-
Down 4	0.02	-
Down 5	0.01	-

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Down 6	0.01	-
Down 7	0.01	-
Down ...	stays 0.01	-

### Example - Skip Topup and Scale Up by Multiplier

#### Example - Skip Topup and Scale Up by Multiplier

- **Goal:** I want to start with 0.01 lots and scale up by 50% for each topup but skip the first topup trade.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Lots for Initial Trade Entry** = 0.01
  2. **Topup Lots Multiplier** = 1.5
  3. **Topup Lots Change by Lots** = 0.0
  4. **Topup Trades to Skip** = 1
- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	growing ...
Up 7	-	0.17
Up 6	-	0.11
Up 5	-	0.08
Up 4	-	0.05
Up 3	-	0.03
Up 2	-	0.02
Up 1	Exit at <b>Initial's Target</b>	Trade Not Entered [0.02]
Initial Entry	0.01	0.01
Down 1	Trade Not Entered [0.02]	Exit at <b>Initial's Target</b>
Down 2	0.02	-
Down 3	0.03	-
Down 4	0.05	-
Down 5	0.08	-
Down 6	0.11	-
Down 7	0.17	-
Down ...	growing ...	-

### Example - Skip Topups and Scale Down by Multiplier

#### Example - Skip Topups and Scale Down by Multiplier

- **Goal:** I want to start with 0.10 lots and scale down to 70% for each topup but skip the first two topup trades.

- **How-to:** Here is an example EA configuration how to achieve the above:

1. **Lots for Initial Trade Entry** = 0.10
2. **Topup Lots Multiplier** = 0.7
3. **Topup Lots Change by Lots** = 0.0
4. **Topup Trades to Skip** = 2

This example assumes that the broker minimum lots requirement is 0.01 for the market.

- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	stays 0.01
Up 7	-	0.01
Up 6	-	0.01
Up 5	-	0.02
Up 4	-	0.02
Up 3	-	0.03
Up 2	-	Trade Not Entered [0.05]
Up 1	Exit at <b>Initial's Target</b>	Trade Not Entered [0.07]
Initial Entry	0.10	0.10
Down 1	Trade Not Entered [0.07]	Exit at <b>Initial's Target</b>
Down 2	Trade Not Entered [0.05]	-
Down 3	0.03	-
Down 4	0.02	-
Down 5	0.02	-
Down 6	0.01	-
Down 7	0.01	-
Down ...	stays 0.01	-

### Example - Skip Topup and Scale Up by Amount

#### Example - Skip Topup and Scale Up by Amount

- **Goal:** I want to start with 0.01 lots and scale up by 0.01 lots for each topup but skip the first topup trade.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Lots for Initial Trade Entry** = 0.01
  2. **Topup Lots Multiplier** = 0
  3. **Topup Lots Change by Lots** = 0.01
  4. **Topup Trades to Skip** = 1
- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	growing ...
Up 7	-	0.08
Up 6	-	0.07

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up 5	-	0.06
Up 4	-	0.05
Up 3	-	0.04
Up 2	-	0.03
Up 1	Exit at <a href="#">Initial's Target</a>	Trade Not Entered [0.02]
Initial Entry	0.01	0.01
Down 1	Trade Not Entered [0.02]	Exit at <a href="#">Initial's Target</a>
Down 2	0.03	-
Down 3	0.04	-
Down 4	0.05	-
Down 5	0.06	-
Down 6	0.07	-
Down 7	0.08	-
Down ...	growing ...	-

### Example - Skip Topups and Scale Down by Amount

#### Example - Skip Topups and Scale Down by Amount

- **Goal:** I want to start with 0.10 lots and scale down by 0.02 lots for each topup but skip the first two topup trades.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. [Lots for Initial Trade Entry](#) = 0.10
  2. [Topup Lots Multiplier](#) = 0.0
  3. [Topup Lots Change by Lots](#) = -0.02
  4. [Topup Trades to Skip](#) = 2

This example assumes that the broker minimum lots requirement is 0.01 for the market.

- **Description:** The below table shows the lots to be used for the trade entries:

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Up ...	-	stays 0.01
Up 7	-	0.01
Up 6	-	0.01
Up 5	-	0.01
Up 4	-	0.02
Up 3	-	0.04
Up 2	-	Trade Not Entered [0.06]
Up 1	Exit at <a href="#">Initial's Target</a>	Trade Not Entered [0.08]
Initial Entry	0.10	0.10
Down 1	Trade Not Entered [0.08]	Exit at <a href="#">Initial's Target</a>

Price Level	Effective Lots after BUY Initial Trade	Effective Lots after SELL Initial Trade
Down 2	Trade Not Entered [0.06]	-
Down 3	0.04	-
Down 4	0.02	-
Down 5	0.01	-
Down 6	0.01	-
Down 7	0.01	-
Down ...	stays 0.01	-

### Example - Closure at Profit Amount

#### Example - Closure at Profit Amount

- **Goal:** I want to cash in profits on a market when **\$3 profit** is reached by the basket of the open initial and topup trades on that market.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. Pair: Target Closure \$ Amount = 3
  2. Pair: Target Profit Pips Closure = 0
- **Description:** The EA enters the initial trade and one or more topup trades on a market. When the combined profit of these open initial and topup trades becomes **\$3 or more** then the EA closes off all these initial and topup trades on that market. After the closure the EA monitors [all the markets](#) for a new [initial entry](#) as usual.

### Example - Closure at Pips Profit

#### Example - Closure at Pips Profit

- **Goal:** I want to cash in profits on a market when **7 pips profit** is reached by the basket of the open initial and topup trades on that market.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. Pair: Target Closure \$ Amount = 0
  2. Pair: Target Profit Pips Closure = 7
- **Description:** The EA enters the initial trade and one or more topup trades on a market. When the combined profit of these open initial and topup trades becomes **7 pips or more** then the EA closes off all these initial and topup trades on that market. After the closure the EA monitors [all the markets](#) for a new [initial entry](#) as usual.

### Example - Closure at Portfolio Profit

#### Example - Closure at Portfolio Profit

- **Goal:** I want to close all open trades across all the traded markets when **\$1000 profit** is reached by the basket of all the open initial and topup trades on all the markets combined. I want the EA to carry on with trading after the portfolio closure.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. Portfolio: Closure at Profit \$ Amount = 1000
  2. Portfolio: Reentry After Closure = *Reentry Allowed*
- **Description:** The EA enters initial and topup trades on [multiple markets](#). When the combined profit & loss of all these open initial and topup trades becomes \$1000 or more profits then the EA closes off all those initial and topup trades on all the traded markets. After the closure the EA monitors [all the markets](#) for a new [initial entry](#) as usual.

## Example - Closure at Portfolio Loss

### Example - Closure at Portfolio Loss

- **Goal:** I want to close all open trades across all the traded markets when **\$500 drawdown** is reached by the basket of all the open initial and topup trades on all the markets combined. I want the EA to carry on with trading after the portfolio closure.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Portfolio: Closure at Maximum Loss \$ Amount** = 500
  2. **Portfolio: Reentry After Closure** = *Reentry Allowed*
- **Description:** The EA enters initial and topup trades on **multiple markets**. When the combined profit & loss of all these open initial and topup trades becomes \$500 or more losses then the EA closes off all those initial and topup trades on all the traded markets. After the closure the EA monitors **all the markets** for a new **initial entry** as usual.

## Example - Stop Trading After Portfolio Closure

### Example - Stop Trading After Portfolio Closure

- **Goal:** I want to close all open trades across all the traded markets when **\$500 drawdown** is reached by the basket of all the open initial and topup trades on all the markets combined. I want the EA to stop further trading after the closure of the portfolio.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Portfolio: Closure at Maximum Loss \$ Amount** = 500
  2. **Portfolio: Reentry After Closure** = *Reentry Disabled*
- **Description:** The EA enters initial and topup trades on **multiple markets**. When the combined profit & loss of all these open initial and topup trades becomes \$500 or more losses then the EA closes off all those initial and topup trades on all the traded markets. After the closure the EA stops further trading and displays a popup window with the details of the portfolio closure. This popup window must be dismissed to allow the EA to trade again.

## Example - Balanced Amount Pruning

### Example - Balanced Amount Pruning

- **Goal:** I want to close a pair of open trades with combined small amount of profit or loss when there are 5 or more open buy or sell trades on a pair. I do not want to use gap scaling.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Start Pruning at Trade Count in a Pair Direction** = 5
  2. **Trade Pair Pruning Approach** = *Balanced Amount Pruning*
  3. **Gap Scaling Start Level** = 0
- **Description:** When any pair listed for the **Pairs to Trade** or **Pairs to Get Out** has 5 or more open buy (or sell) trades and the last topup trade retraced to the previous level then the EA looks for a pair of buy (or sell) trades on that pair where that pair of trades could be closed out with a small profit or loss amount. If such a pair of trades was found then those two buy (or sell) trades get closed out.

## Example - First & Last Trades Pruning

### Example - First & Last Trades Pruning

- **Goal:** I want to close the oldest and newest open trades when there are 6 or more open buy or sell trades on a pair. I do not want to use gap scaling.

- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Start Pruning at Trade Count in a Pair Direction** = 6
  2. **Trade Pair Pruning Approach** = *First & Last Trades Pruning*
  3. **Gap Scaling Start Level** = 0
- **Description:** When any pair listed for the **Pairs to Trade** or **Pairs to Get Out** has 6 or more open buy (or sell) trades and the last topup trade retraced to the previous level then the EA closes off the first and the last (i.e. the oldest and the newest) buy (or sell) trades on that pair.

## Example - Gap Pruning

### Example - Gap Pruning

- **Goal:** I want to do pruning when there are 5 or more open trades. I want to close the last topup trade when the scaled gap size is at least 4 times the size of the initial gap size. Otherwise I want to close a pair of open buy (or sell) trades with combined small amount of profit or loss. I want to scale up the gap by 20% from level 1.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Gap Scaling Start Level** = 1
  2. **Gap Scaling Rate** = 120
  3. **Start Pruning at Trade Count in a Pair Direction** = 5
  4. **Trade Pair Pruning Approach** = *Balanced Amount Pruning*
  5. **Gap Pruning From This Scale of Initial Gap** = 400
- **Description:** When any pair listed for the **Pairs to Trade** or **Pairs to Get Out** has 5 or more open buy (or sell) trades then the EA checks the last scaled gap size. If that is 4 times or more larger than the initial gap size and the last buy (or sell) topup trade retraced half way to the previous level then the EA closes off that last buy (or sell) topup trade. If the last scaled gap size is less than 4 times of the initial gap size and the last topup trade retraced to the previous level then the EA looks for and closes off a pair of buy (or sell) trades on that pair with a small profit or loss amount.

## Example - FIFO Trading

### Example - FIFO Trading

- **Goal:** My broker mandates FIFO trading therefore I want the EA to enter and exit trades according to the FIFO rules. I want to use 25 pips for Take Profit for the initial trade.
- **How-to:** Here is an example EA configuration how to achieve the above:
  1. **Initial: Take Profit** = 0
  2. **Initial: Hidden TP** = 25
  3. **Trailing Start at Profit** = 0
  4. **Allow Buy & Sell the Same Pair at the Same Time** = *Only One Direction Allowed on Same Market*
  5. **Topup TP Mode** = *Hide Topup TP from Broker*
  6. **Start Pruning at Trade Count in a Pair Direction** = 0
- **Description:** Upon a new trade trigger on a not yet traded market the EA enters the initial trade. The EA does not set the 25 pips TP for the open initial trade on the broker server as that could violate the FIFO rules later on. The EA monitors the market price and closes off the initial trade when the price hits the 25 pips hidden TP. Should the market price move against the initial trade the EA enters 1 or more topups. The EA does not set the TP for the group of open trades as that could violate the FIFO rules. Instead, the EA monitors the market price and closes off all the open trades on that market in FIFO manner when the TP is reached.

**Note:** Do **not** trade the broker account manually and/or by other EAs along with the Wave ForexLiberator EA. Trading the same markets by multiple parties can result in demand to close

a specific open trade first which is outside the control of the Wave ForexLiberator EA, i.e. blocking the trade executions and potentially causing losses.



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# Chapter

# 5

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## Knowledgebase

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Frequently Asked Questions and other common use cases.

### 5.1 How to Download MT5

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#### Question

How can I install the MT5 platform?

#### Answer

Please download the MT5 setup application directly from one of your preferred brokers web site, or from [MetaQuotes website](#).

### 5.2 How to Download the Setup Application

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#### Question

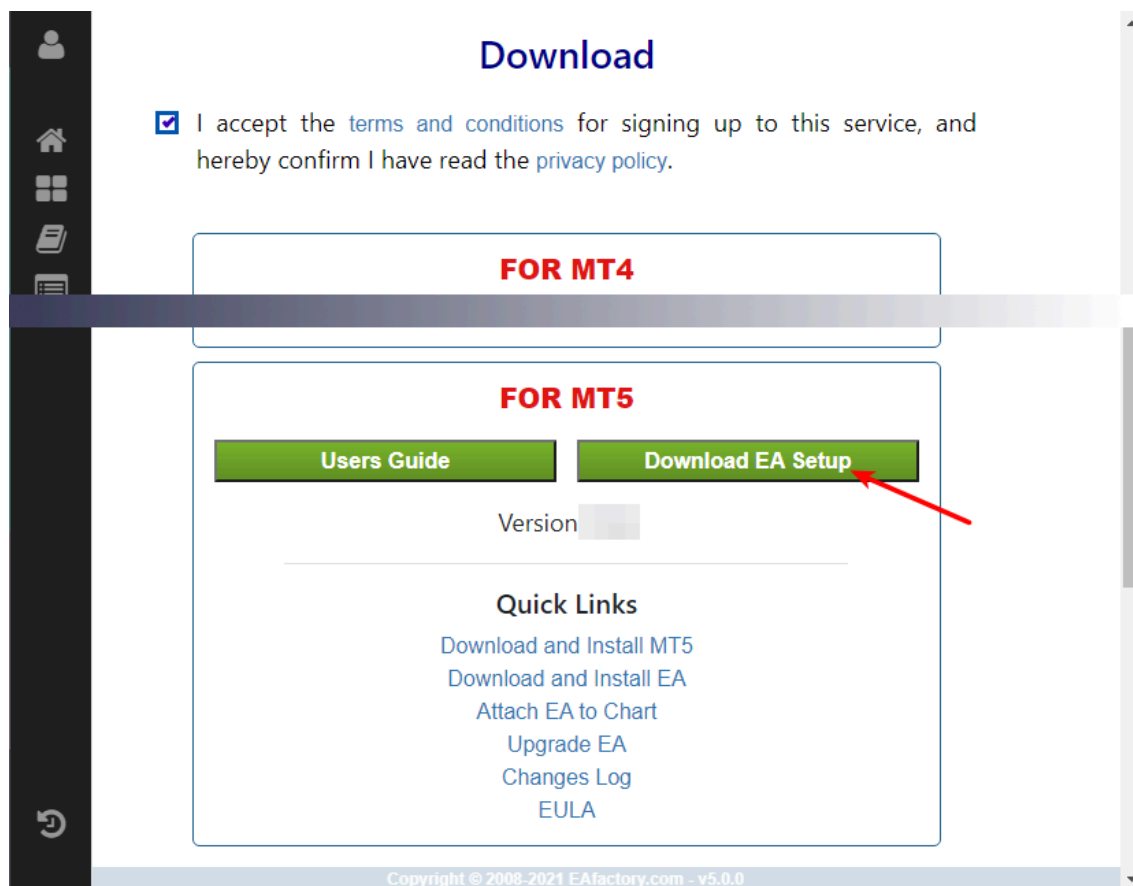
How to download the Wave ForexLiberator EA Setup application?

1. Visit the Wave ForexLiberator EA [Web Support Centre](#) page.
2. Read the Web Support Centre [Terms and Conditions](#) and [Privacy Policy](#) then tick the checkbox to accept them.



The screenshot shows a web interface with a dark sidebar on the left containing icons for a user profile, a home page, and a grid of options. The main content area is titled 'Download' in blue. Below the title, there is a checkbox with a red arrow pointing to it, followed by the text: 'I accept the [terms and conditions](#) for signing up to this service, and hereby confirm I have read the [privacy policy](#).' The links are underlined in red.

3. Click on the **Download EA Setup** button to download the EA setup for the MT5 terminal.



## 5.3 How to Install the Wave ForexLiberator EA

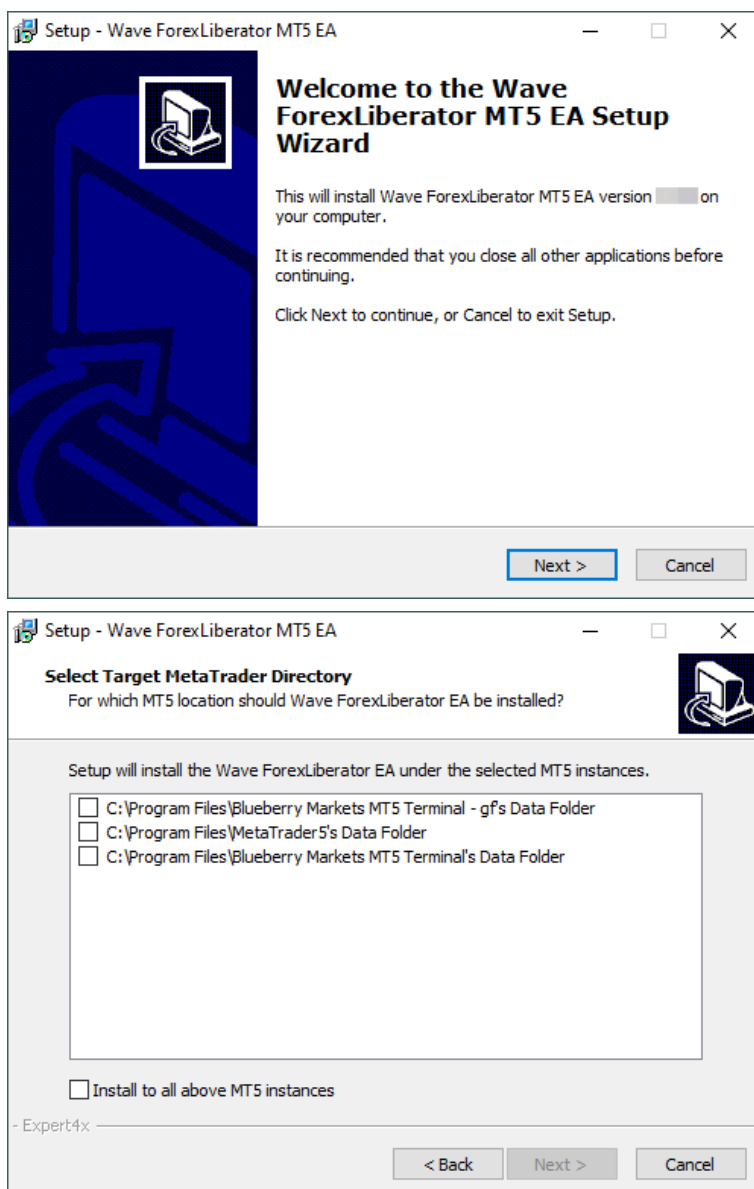
The Wave ForexLiberator EA comes with a setup application to provide a wizard based installation process to the selected MT5 terminal.

### Before you start...

- Ensure that you have the login credentials to the Web Support Centre.
- Ensure that you have an MT5 terminal version 5.00 build 4260 or later installed.

1. Exit the MT5 if it was running.
2. Download the latest version of the Wave ForexLiberator EA for MT5 from the [Web Support Centre](#) page.
3. Run the downloaded setup application. Select the MT5 instance through the setup wizard pages to where you want the EA to be installed.
4. When the setup completes start the MT5 up. The Wave ForexLiberator EA entry should appear under the **Expert Advisors** node in the **Navigator** window (**View > Navigator**)

These pictures highlight the steps how to install the EA.

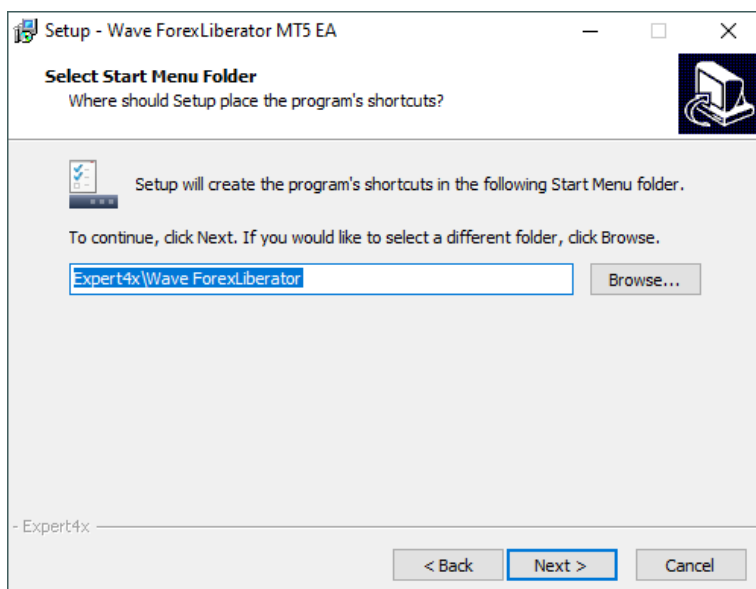


The setup application lists the available MT5 instances. Select one or multiple of them for installation target and click on the **Next**.

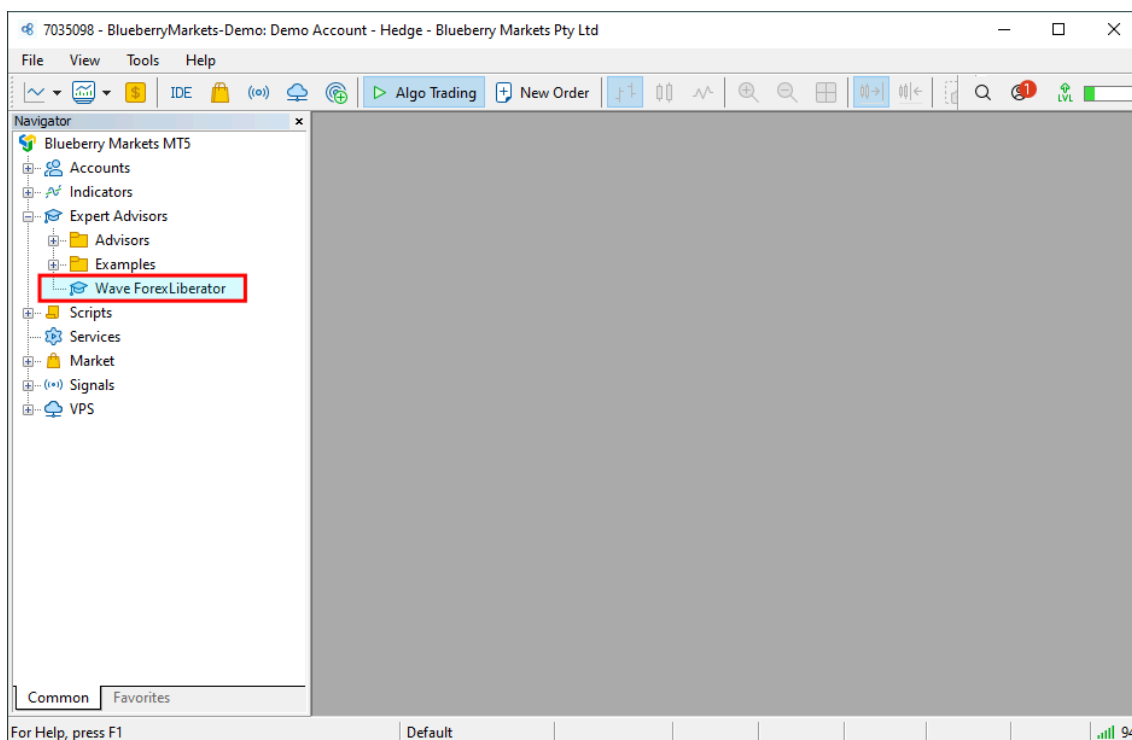
**Note:**

If you see an empty list then you probably need to install an MT5 first. In that case [download and run the MT5 setup application](#) from your preferred broker's web site. After that run again this EA setup application.

If you are an advanced user and you run the MT5 in portable mode from a custom location then copy this EA setup application into the Data Folder of the MT5, then run the EA setup application from that Data Folder. In order to find the Data Folder of the MT5 select the File > Open Data Folder in the MT5's menu.



When the installation is complete start the MT5 up and check that the EA appears in the **Navigator** window (**View > Navigator**):



Now everything is set up for the first activation of the Wave ForexLiberator Expert Advisor.

## 5.4 How to Upgrade the EA

### Question

How to upgrade the Wave ForexLiberator EA?

### Answer

In order to upgrade the EA please follow these steps:

1. Download the latest Wave ForexLiberator EA from the [Web Support Centre](#). For detailed steps refer to the [How to Download the Setup Application](#).

2. Exit the MT5 terminal if it was running.
3. Execute the downloaded Wave ForexLiberator EA setup application. Follow through all of the wizard pages to complete the EA installation.
4. Start up the MT5 terminal.

The upgraded Wave ForexLiberator EA will pick up and carry on managing any existing trades created by the previous EA version.

#### Related tasks

[Step-by-step Installation of Expert4x EAs and Indicators](#) on page 81

[How to download an EA setup in VPS environment](#) on page 86

#### Related information

[How to Download the Setup Application](#) on page 57

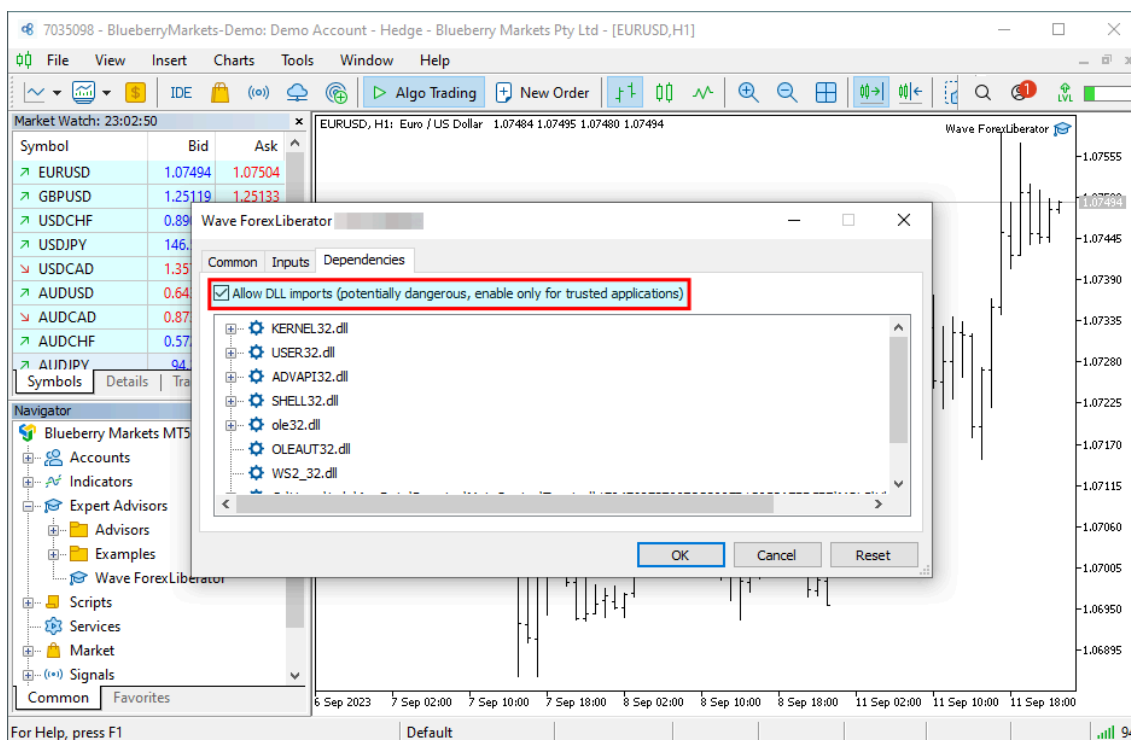
## 5.5 How to Attach the Wave ForexLiberator Expert Advisor to a Chart

Step by step guide to get the EA up and running on a chart for the first time.

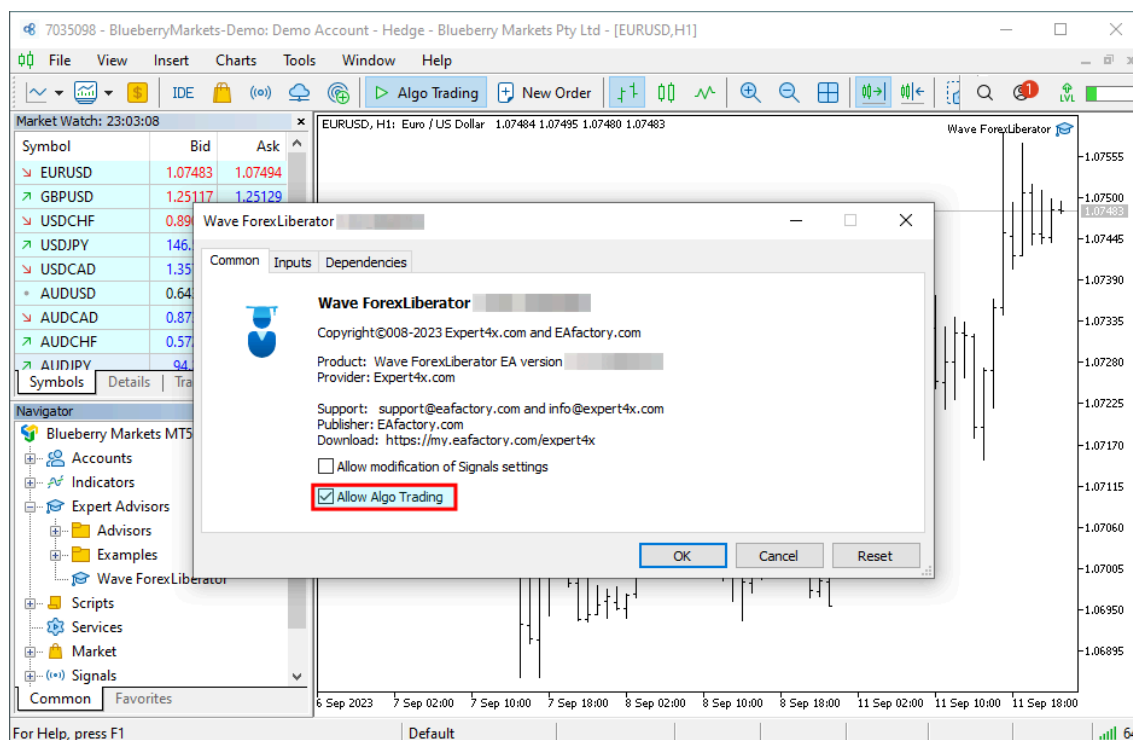
The following pictures demonstrate the first time activation of the Wave ForexLiberator Expert Advisor in a few steps.

### Attach the EA to a chart

1. Drag & drop the Wave ForexLiberator Expert Advisor from the **Navigator** window (**View > Navigator**) to a chart window. In the appearing properties window select the **Dependencies** tab and tick the checkbox **Allow DLL imports**:



## 2. Go to the **Common** tab and tick the checkbox **Allow Algo Trading**:



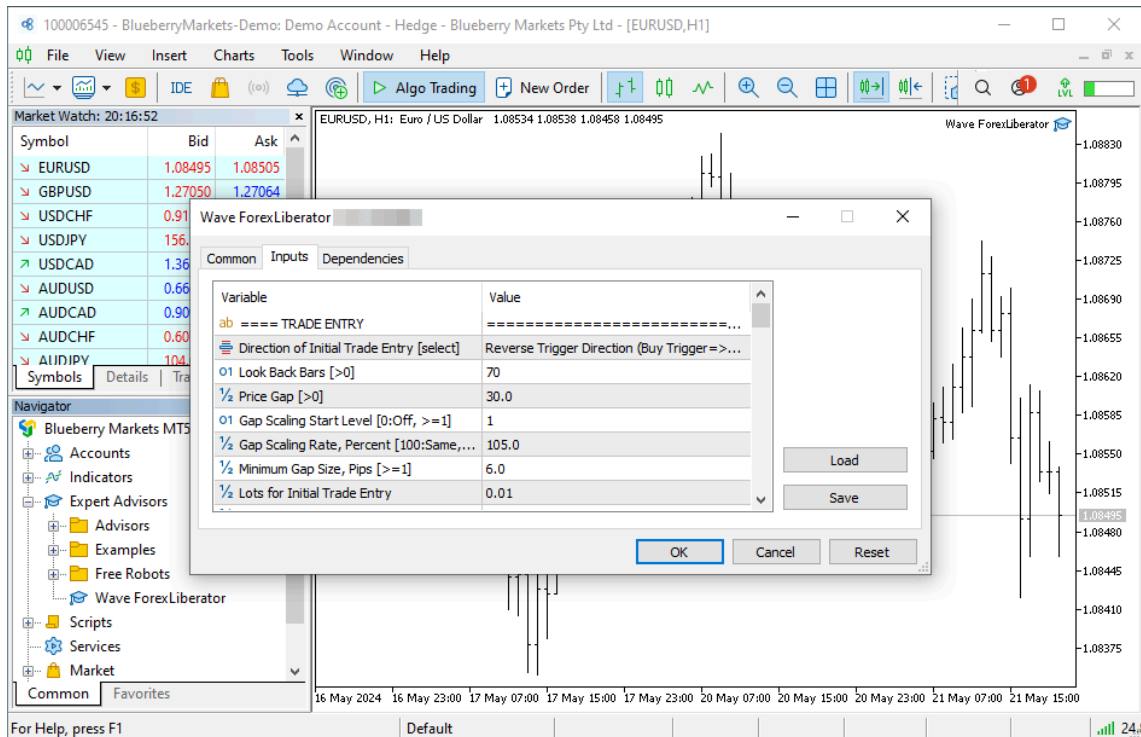
### Note:

Ensure that the

- **Allow DLL imports** and
- **Allow Algo Trading**

are **ticked** otherwise the Wave ForexLiberator EA is not able to start up.

### 3. Select the **Inputs** tab:

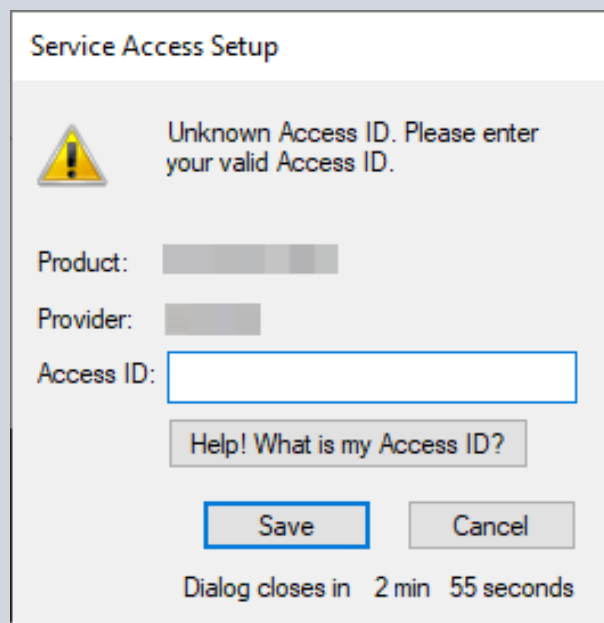


This lists the parameters of the EA where the operational aspect of the Wave ForexLiberator EA can be set up. For more details see the [Wave ForexLiberator EA Configuration Guide](#) – for now click on the **OK** button and let the EA start up with default settings.

#### **Note:**

At the very first time the EA may prompt for the Access ID to verify that the usage of product is licensed.

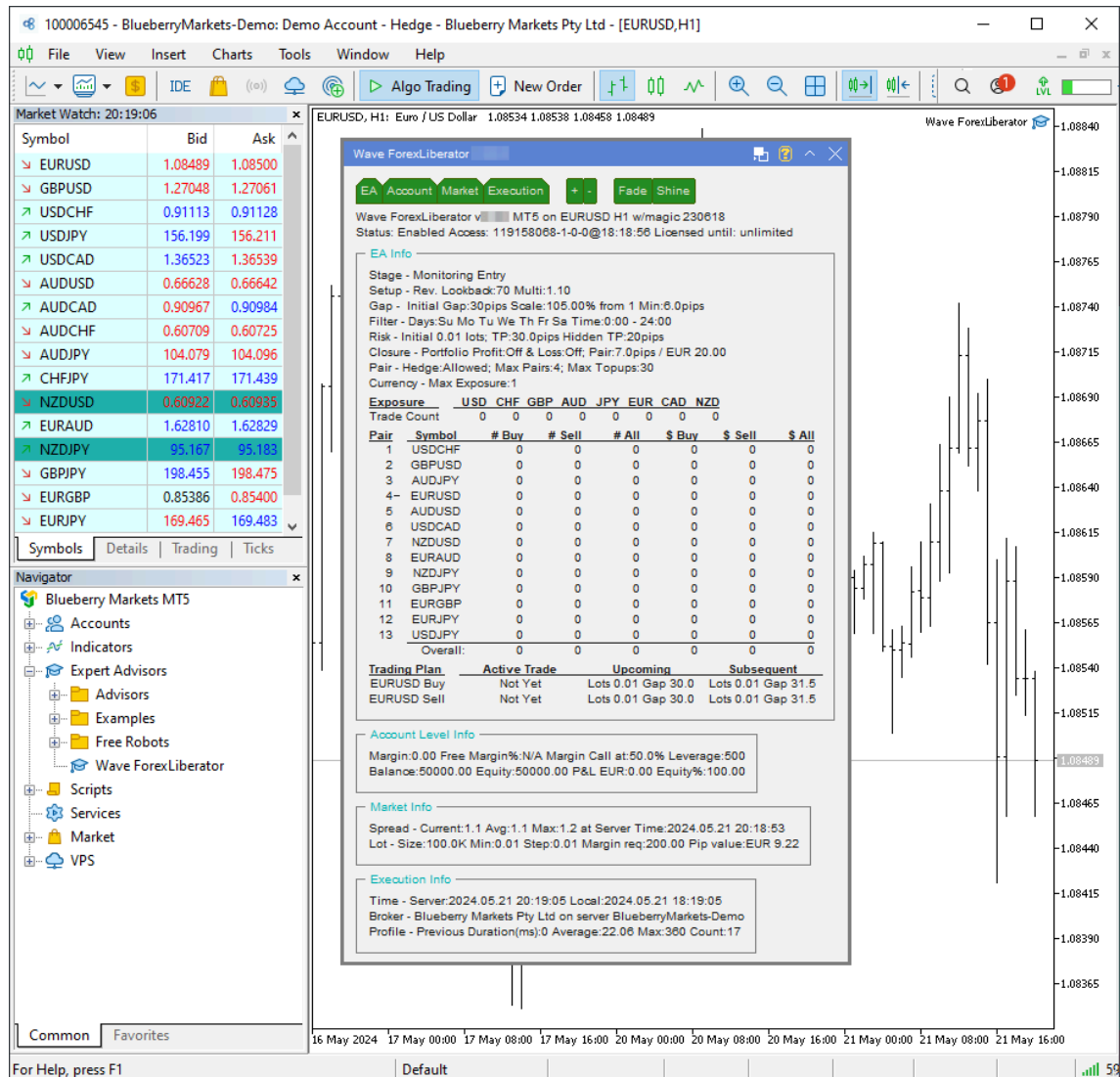
The Access ID is pre-configured and is the same as the login name to the web support site. Feel free to change your Access ID at the [Web Support Centre](#) and ensure not to share it with anyone else. Enter the Access ID and click on the **Save** button:



**Tip:** If you do not remember your Access ID then click on the **Help! What is my Access ID?** to see it on your [Web Support Centre user profile](#).

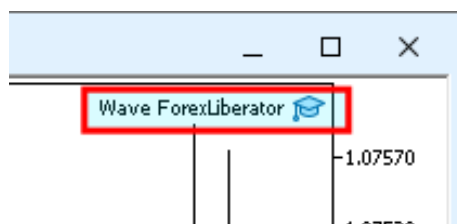
## The Wave ForexLiberator EA is up and running

After successful authentication the Wave ForexLiberator EA starts up.



The Wave ForexLiberator Expert Advisor has been attached to the chart. The smiley face in the top-right corner shows that the initialisation of the Wave ForexLiberator Expert Advisor was successful and the EA is now looking for trading opportunities.

See the smiley face in the corner:



In case of a problem getting the EA up and running please refer to the [Knowledgebase section](#).



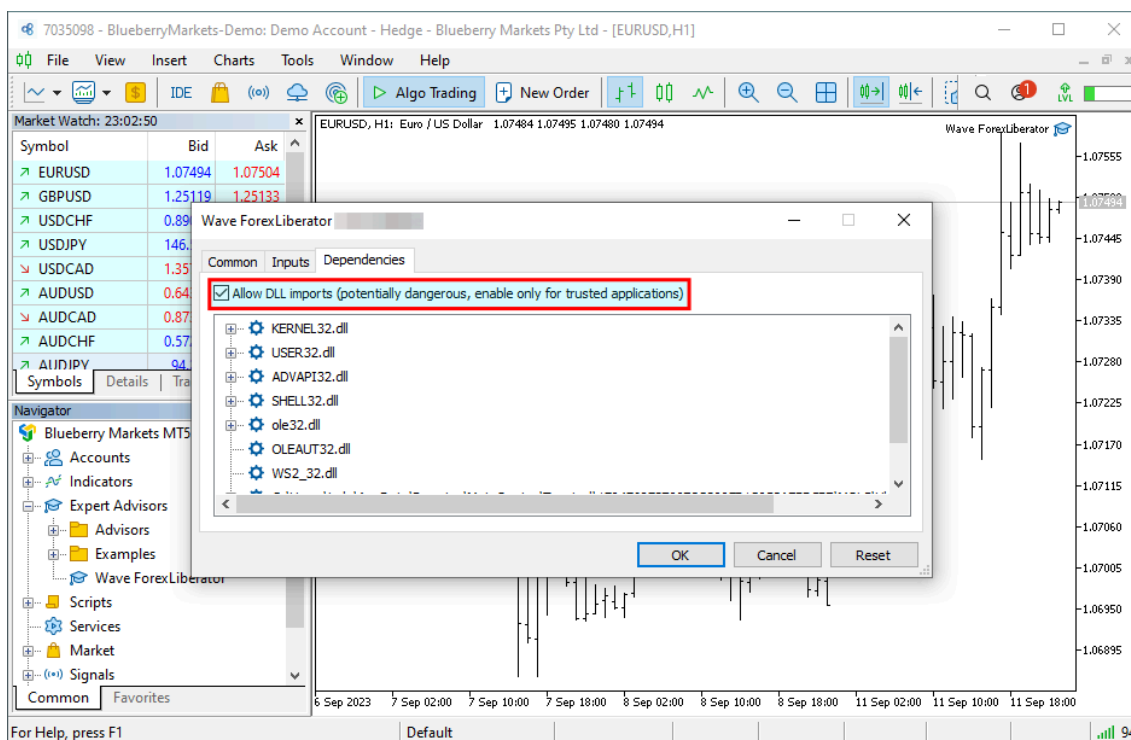
## 5.6 Wave ForexLiberator Expert Advisor First Time Activation

Step by step guide to get the EA up and running on a chart for the first time.

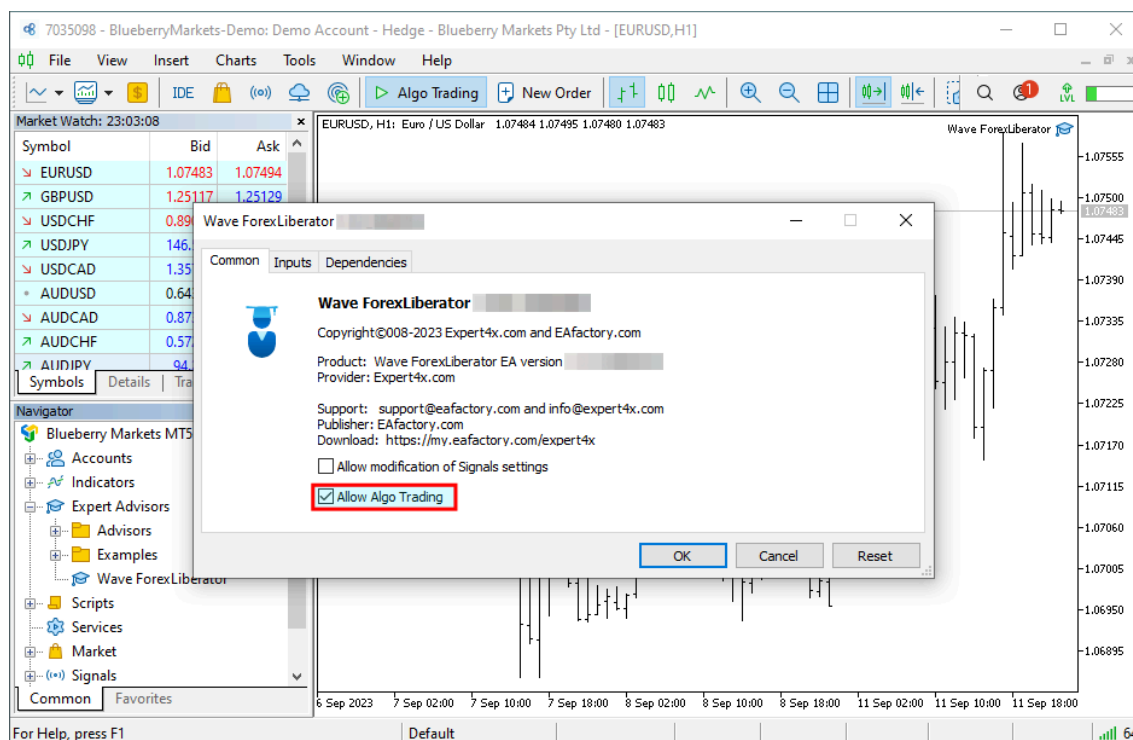
The following pictures demonstrate the first time activation of the Wave ForexLiberator Expert Advisor in a few steps.

### Attach the EA to a chart

1. Drag & drop the Wave ForexLiberator Expert Advisor from the **Navigator** window (**View > Navigator**) to a chart window. In the appearing properties window select the **Dependencies** tab and tick the checkbox **Allow DLL imports**:



## 2. Go to the **Common** tab and tick the checkbox **Allow Algo Trading**:



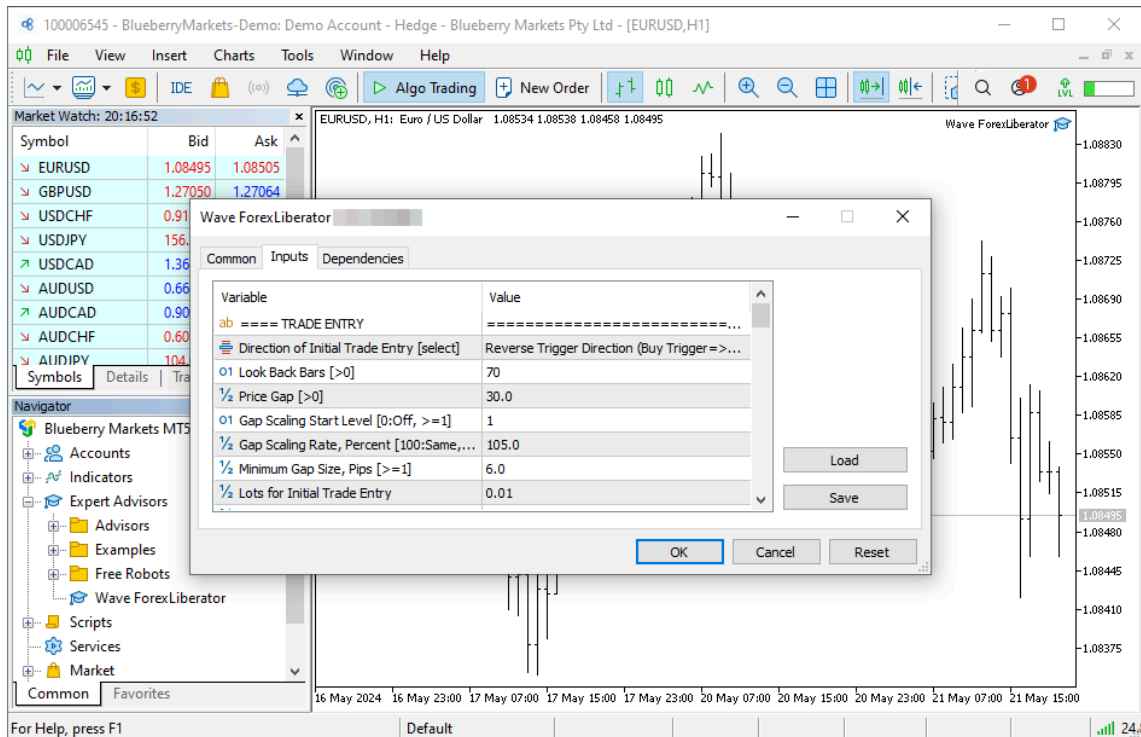
### Note:

Ensure that the

- **Allow DLL imports** and
- **Allow Algo Trading**

are **ticked** otherwise the Wave ForexLiberator EA is not able to start up.

### 3. Select the **Inputs** tab:



This lists the parameters of the EA where the operational aspect of the Wave ForexLiberator EA can be set up. For more details see the [Wave ForexLiberator EA Configuration Guide](#) – for now click on the **OK** button and let the EA start up with default settings.

#### Note:

At the very first time the EA may prompt for the Access ID to verify that the usage of product is licensed.

The Access ID is pre-configured and is the same as the login name to the web support site. Feel free to change your Access ID at the [Web Support Centre](#) and ensure not to share it with anyone else. Enter the Access ID and click on the **Save** button:

### Service Access Setup

Unknown Access ID. Please enter your valid Access ID.

Product:

Provider:

Access ID:

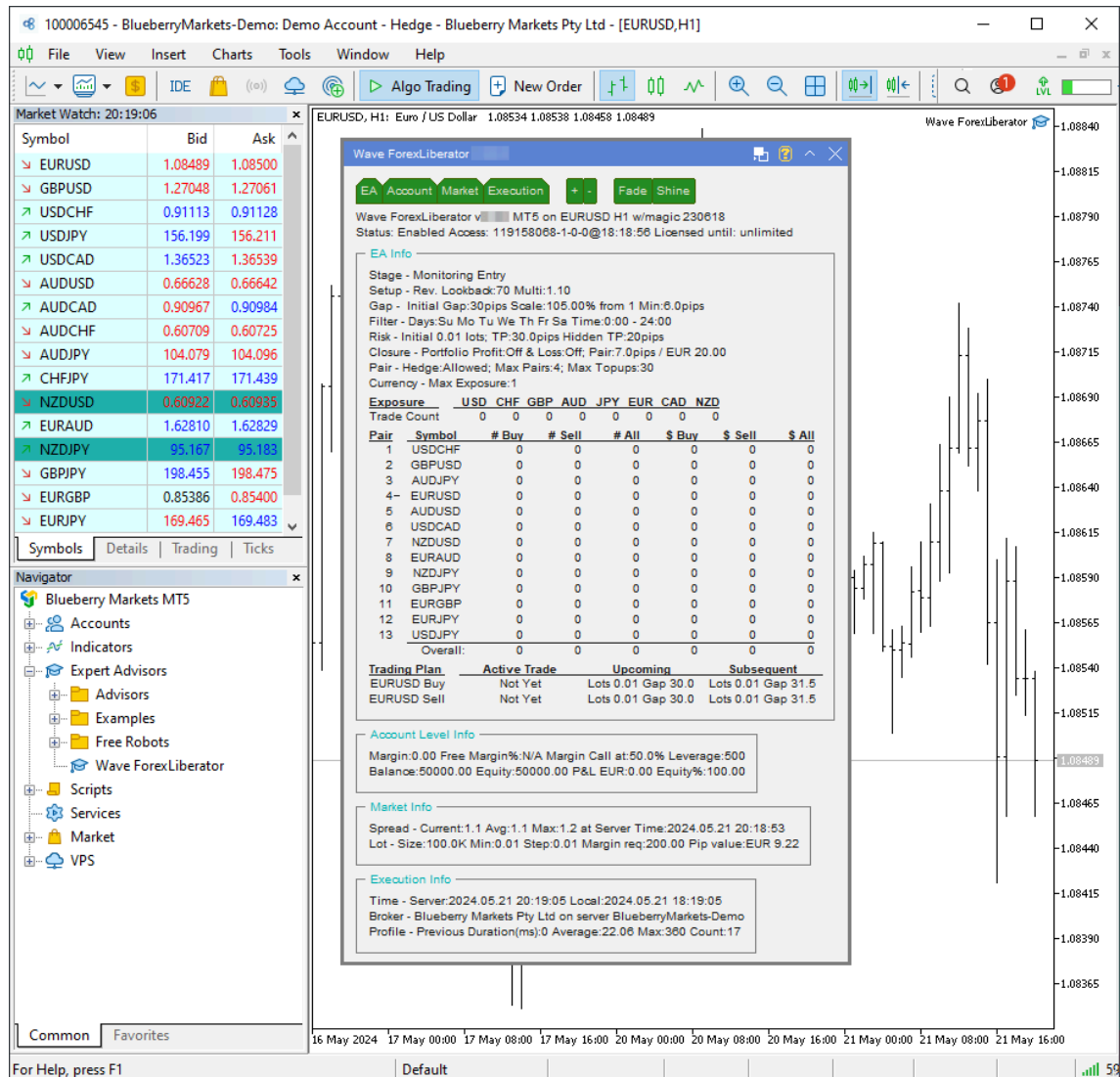
[Help! What is my Access ID?](#)

Dialog closes in 2 min 55 seconds

**Tip:** If you do not remember your Access ID then click on the **Help! What is my Access ID?** to see it on your [Web Support Centre user profile](#).

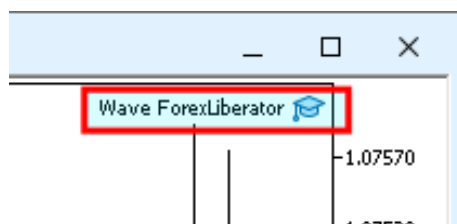
## The Wave ForexLiberator EA is up and running

After successful authentication the Wave ForexLiberator EA starts up.



The Wave ForexLiberator Expert Advisor has been attached to the chart. The smiley face in the top-right corner shows that the initialisation of the Wave ForexLiberator Expert Advisor was successful and the EA is now looking for trading opportunities.


See the smiley face in the corner:



In case of a problem getting the EA up and running please refer to the [Knowledgebase section](#).

## 5.7 Sign Instead of Sign After Attach

### Issue

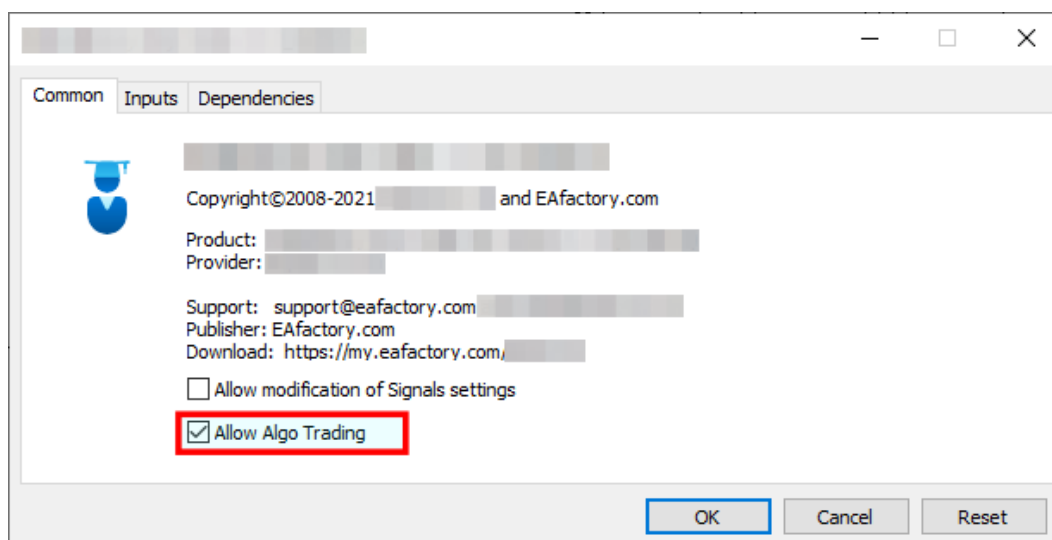
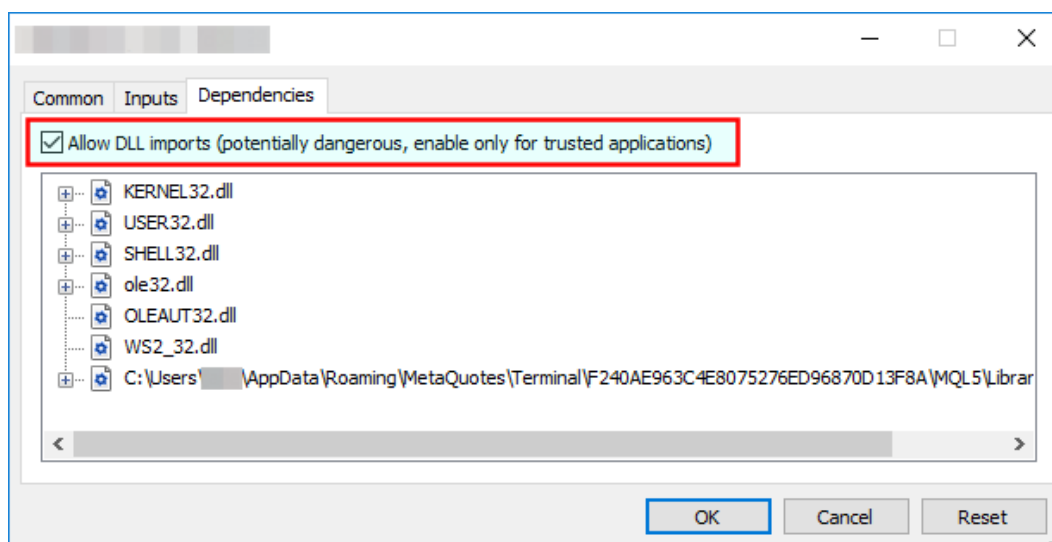
After attaching to chart the EA is not managing trades, a  sign appears in the top right corner of the chart.



### EA's common and dependencies parameters might be not enabled

The **Allow Automated Trading** and **Allow DLL imports** might be not enabled

- Press F7 key and verify that the **Allow Automated Trading** and **Allow DLL imports** are checked in the EA property dialog.

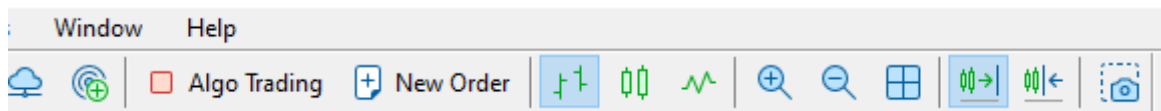


### Algo Trading is disabled

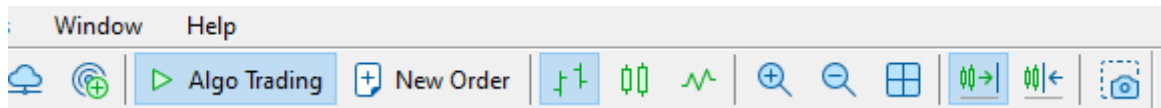
The **Algo Trading** might be disabled

- Verify that the toolbar button **Algo Trading** is pressed.

Toolbar button when Expert Advisors disabled:



Click to enable:



## 5.8 What is the Leverage of My Account

### Question

What is the leverage of my MT5 broker account?

I am logged in to my demo or live MT5 account and want to know the leverage available on the account.

### Answer

The Wave ForexLiberator EA displays the MT5 account leverage on its dashboard, at the section **Account Level Info**.

See the reported leverage value at the end of the first line:



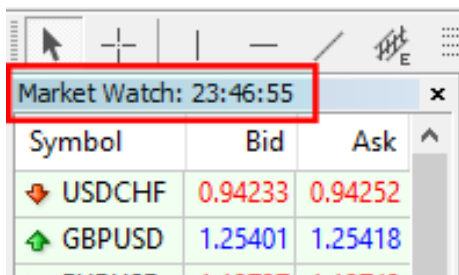
In the above picture the leverage is reported as 400, which represents 400:1 account leverage.

## 5.9 How to Figure Out My Broker's GMT Offset?

The MT5 platform presents its chart using the time of its broker server. The various brokers configure their server time according to their own choice, many of them are in one of the European timezone ranging from GMT+0 to GMT+3, but some brokers opt to have their server in the US Eastern timezone, which is GMT-5. These GMT offsets may get further adjusted for the daylight savings from March till October of every year.

The Wave ForexLiberator EA uses the time for trading decisions therefore its time input parameters need to be adjusted by the GMT offset of the broker's server. This article describes how to figure out the GMT offset specific to the MT5 broker account.

1. The Market Watch window's header shows the broker's server time, press Ctrl+M in the MT5 terminal:



This time can be compared to the GMT+0 time to calculate the GMT offset of the broker, as per the next step.

2. In a web browser search for *gmt time* keywords to see the current GMT time.
3. Calculate now the broker GMT offset = 'Market Watch time' - 'GMT time'.

For an example, assuming the following:

- Market Watch time: 18:29
- GMT time as per the search result: 15:29

Then the calculated GMT offset is  $18:29 - 15:29 = 3:00$  hours. In practice - in the limited context of the forex broker servers - it is sufficient to calculate the difference between the hour parts:  $18 - 15 = 3$  hours.

**Note:** For broker servers located in Europe the GMT offset is likely to be in the range of 0 and 3, i.e. a zero or positive number. For broker servers located in the US the GMT offset might be in the range of -5 and -6, i.e. a negative number. Keep in mind that these figures may get further adjusted by the daylight savings.

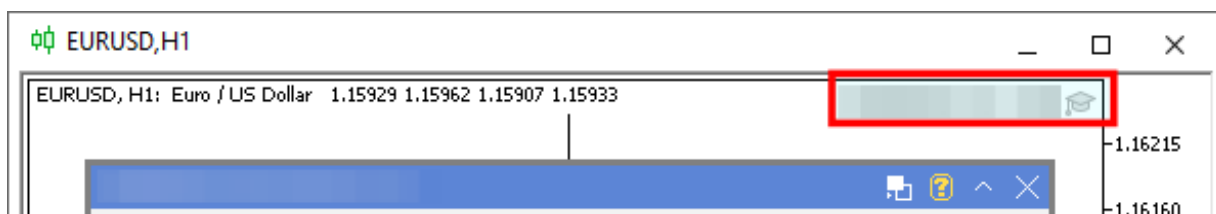
Based on past experience, with no guarantee that the information is correct, these are a few sample broker GMT offsets observed as of July 2015:

MT5 Terminal	Broker	GMT Offset
AxiTrader	AxiCorp Financial Services Pty Ltd	+3
IC Markets	International Capital Markets Pty Ltd	+3
InstaForex	InstaForex Companies Group	+3
FXCM	Forex Capital Markets Inc	+3
ThinkForex	TF Global Markets (Aust) Pty Ltd	+3
RoboForex EU	RoboForex (CY) Ltd	+3
Tallinex	Tallinex Ltd	0
Oanda	OANDA Corporation	-4
MB Trading FX	MB Trading Futures Inc	-4

## 5.10 EA Is Not Starting Up After Attach to Chart

### Issue

The EA reports successful initialisation and advises about disabled Expert Advisors.

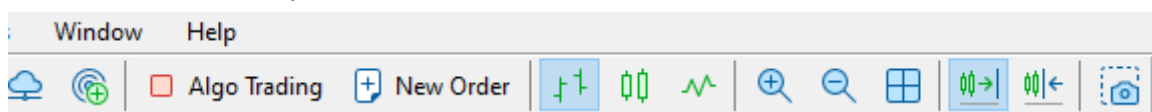


## Algo Trading is disabled

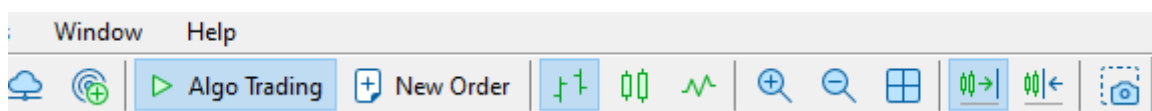
The **Algo Trading** might be disabled

- Verify that the toolbar button **Algo Trading** is pressed.

Toolbar button when Expert Advisors disabled:



Click to enable:



## 5.11 No Updates to Chart

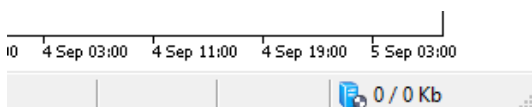
### Issue

The Wave ForexLiberator EA does not update information on the chart for several minutes.

### Connection Lost

MetaTrader should be connected to the broker's server.

1. Check the bottom right corner of MetaTrader, this is when it has lost connection to the server:



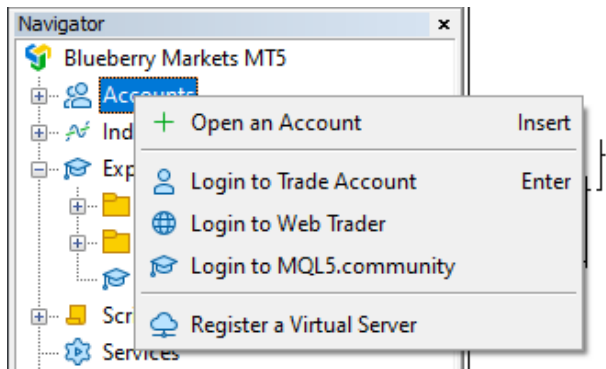
2. If connection is lost then login again or restart MT to force reconnection. Try again activating the Wave ForexLiberator EA when connection is back.

### Demo account is expired

MT5 will not be able to connect to the demo account if it's expired. In this case MT5 will keep asking for the login details and fail all login attempt.



- When this happens open a new demo account (right click **Accounts** in Navigator window and select **Open an Account**).



### Market is closed

New tick information and updates to chart happens when markets are open.

- Double check that markets are meant to be open currently.

### Disk is full

There should be at least 50MB free disk space available on the drive MetaTrader is installed on.

- If the free disk space is low then free up space.

## 5.12 Prompted for Access ID at Service Access Settings

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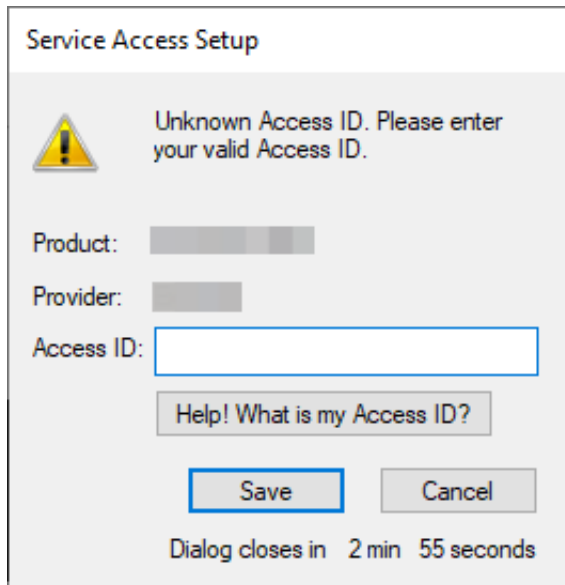
### Issue

After attaching to chart the Wave ForexLiberator EA asks for my Access ID in the Service Access Settings window.

### Type in your Access ID

The Wave ForexLiberator EA checks that the usage of product is appropriately licensed. After product purchase a user profile is created on our web support site and the product can be downloaded from that web site. The support site allows to set up an Access ID which is required by the Wave ForexLiberator EA to validate the product licence. By default this Access ID is configured to be the same as your selected login name to the web support site.

- When prompted, please enter your Access ID to the window and click Save:



The image shows a 'Service Access Setup' dialog box. At the top, there is a yellow warning triangle icon and the text 'Unknown Access ID. Please enter your valid Access ID.' Below this, there are three input fields: 'Product:', 'Provider:', and 'Access ID:'. The 'Access ID:' field is currently empty and has a blue border. Below the 'Access ID:' field is a button labeled 'Help! What is my Access ID?'. At the bottom of the dialog are two buttons: 'Save' and 'Cancel'. Below the buttons, it says 'Dialog closes in 2 min 55 seconds'.

**Tip:** If you do not remember your Access ID then click on the **Help! What is my Access ID?** to see it on your [Web Support Centre user profile](#).

Please do not share out to others your Access ID. That is against the licence agreement terms and conditions and also all 3rd party usages will count when checking the number of EA copies being used. Sharing out your Access ID can result in licence check failure and the EA may stop functioning.

Keep your Access ID secure, change it away from the its default value at any time on the [Web Support Centre](#) site.



## 5.13 How to Edit the EA Input Values

### Question

How can I edit or change the settings of the Wave ForexLiberator EA once it is attached to a chart?

### Answer

In order to edit the input parameters of an EA which is already attached to a chart follow these steps

1. Select the chart with the EA: click inside the chart area which hosts the Wave ForexLiberator EA in your MT5 application.
2. Press **F7** on your keyboard, or alternatively double click on the  (or ) icon in the top-right corner of the chart.
3. Edit the Wave ForexLiberator EA input values in the appearing EA properties window: double-click on the current value you want to change then type in the new value.
4. Click **OK** when editing is complete

## 5.14 Not Enough Memory For Bar History Or Indicator

### Issue

Some of the market bar history data or an indicator fails to load because the MT5 runs out of memory. An error message similar to the below is reported:

### ----- Error Messages

ERROR 85130:RSI indicator failed to load or fit in memory.

At Broker Time:2018.03.02 21:59:50 Local Time:2018.03.04 11:58:50 Count:1

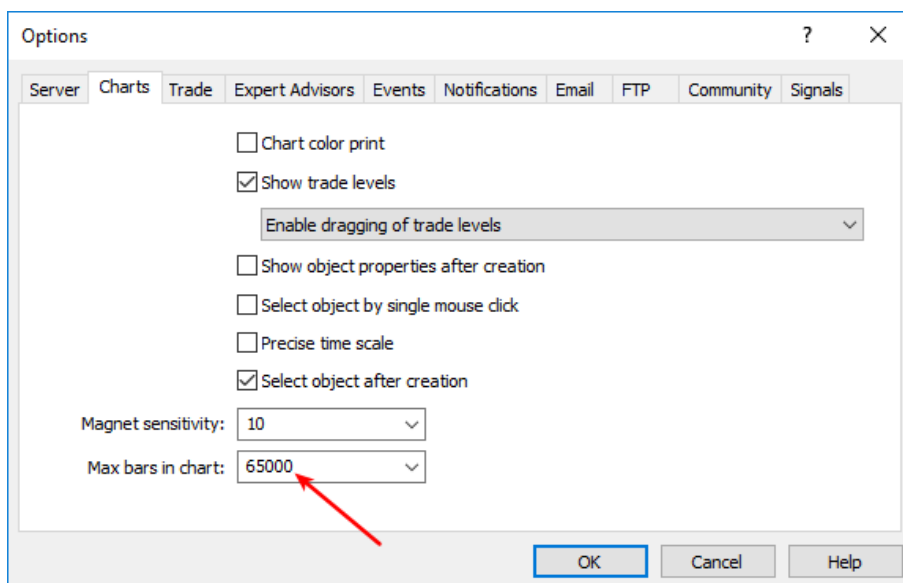
MT4:4075 not enough memory for indicator

Bid:1.904380 Spread:27.9 StopLevel:0.1 Tradeable:Yes

## Solution

The bar history data takes up too much memory when loaded into RAM and the charts. The MT5 application needs to be configured to keep less number of bars on the charts.

1. In the MT5 application menu select **Tools > Options** then select the **Charts** tab.
2. Enter 65000 into the edit box **Max bars in chart**:



3. Attach the EA to the chart now. If the issue is still there then go back to the previous step and enter half of the previous values. Keep repeating these two steps - halving the values every time - until the EA attaches successfully.

## 5.15 No Trades Due to Trade Disabled

### Issue

The EA got attached to a chart, the EA is up and running. It keeps submitting market orders to the broker server. However, the broker's server does not execute these market orders, instead, the broker says the trade on this broker account is disabled:



The broker server reports the error code 133, which means that the **trade is disabled** on the account. This is not an EA issue, instead, this is an issue with the broker account. For some reason the broker account does not allow you to trade that market.

### Solution

Go through the following checklist to resolve this issue:

1. Restart the terminal to see if the restart and reconnect to the broker resolves this: In the menu select **File > Exit**, wait 5 seconds then start the terminal up again.

2. Identify another symbol for the same market which is enabled for trading: In the menu select **View > Symbols** and search for symbol with different/extra suffix in the name, like EURUSD**ecn**. Add that symbol to the **Market Watch** window then attach the EA to this new symbol.
3. Logging into your broker account with the **investor login** credentials disables trading. Ensure that you log in to your broker account with the **full trader login** credentials.
4. Create another demo account with the broker.
5. Contact your broker and ask their support team to enable trading on the symbol or account
  - a. Your broker account may have reached some trade limits (e.g. overall maximum lots).
  - b. Your broker may have put (temporarily) trading limitations on your account for some reason.
  - c. Your broker may have to enable trading by EAs.

## 5.16 Backtest In Visual Mode Not Working

### Issue

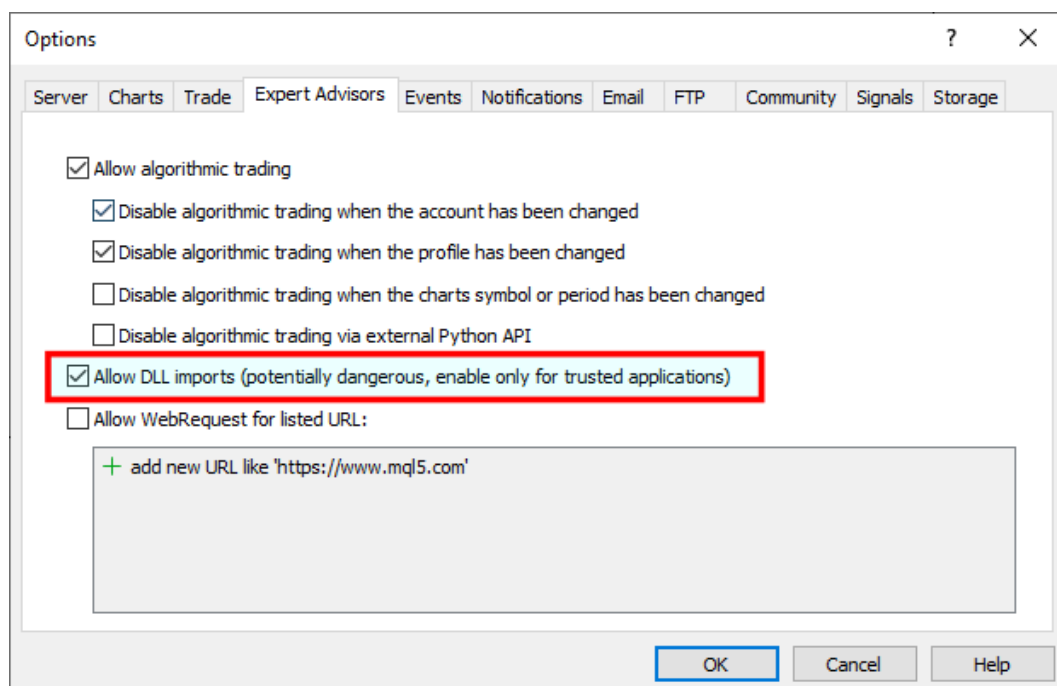
In the **Strategy Tester** using the visual mode **DLL imports not allowed** message appears on the chart. No result after the **Strategy Tester** finished its run.

Time	Message
2019.09.06 17:27:01.551	2019.05.01 00:00:00 DLL loading is not allowed
2019.09.06 17:27:01.551	global initialization failed
2019.09.06 17:27:01.551	global initialization critical error
2019.09.06 17:27:01.551	tester stopped because expert initialization failed

### Global Allow DLL imports is not enabled

You may need to enable the DLL imports in the MT5 for terminal global parameters to run the Wave ForexLiberator EA in the backtest environment.

1. Open the MT5 global Options by selecting **Tools > Option (CTRL+O)**
2. Select the **Expert Advisors** tab
3. Check the **Allow DLL import**



4. Restart the MT5: exit the MT5 application, wait 5 seconds then start it up again.

## 5.17 Backtest Not Working

### Issue

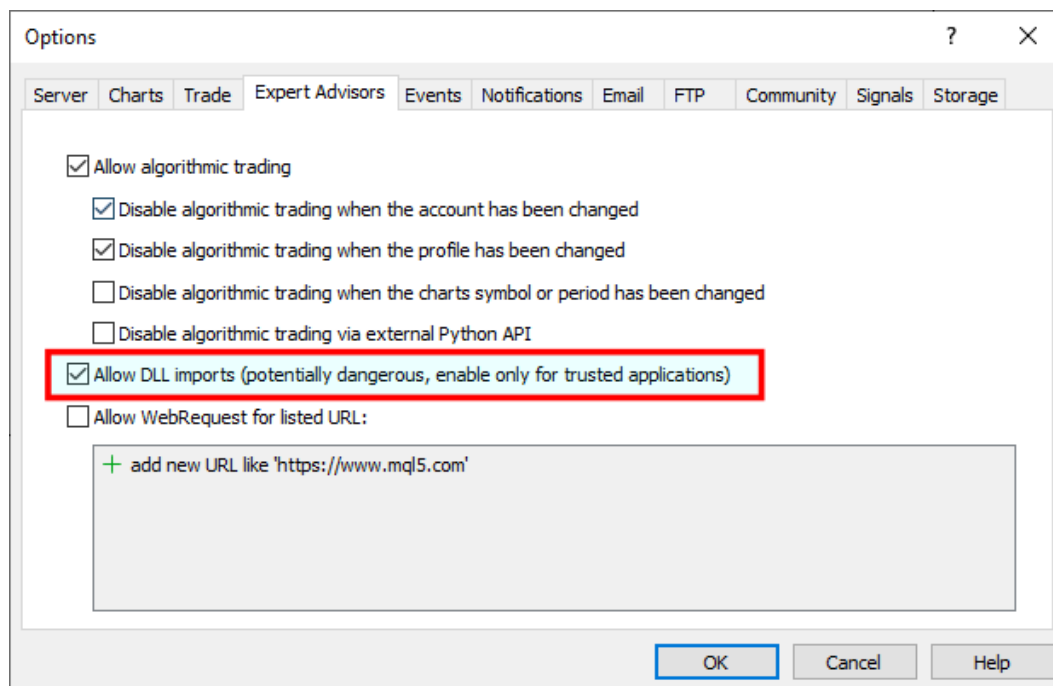
After the backtest finished no result showing.

Time	Source	Message
2020.05.01 15:16:04.141	Core 1	MagicNumber=200426
2020.05.01 15:16:04.141	Core 1	2019.05.01 00:00:00 DLL loading is not allowed
2020.05.01 15:16:04.141	Core 1	global initialization failed
2020.05.01 15:16:04.141	Core 1	global initialization critical error
2020.05.01 15:16:04.141	Core 1	tester stopped because expert initialization failed

### Global Allow DLL imports is not enabled

You may need to enable the DLL imports in the MT5 for terminal global parameters to run the Wave ForexLiberator EA in the backtest environment.

1. Open the MT5 global Options by selecting **Tools > Option (CTRL+O)**
2. Select the **Expert Advisors** tab
3. Check the **Allow DLL import**

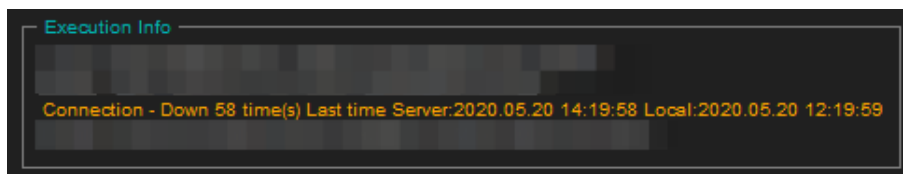


4. Restart the MT5: exit the MT5 application, wait 5 seconds then start it up again.

## 5.18 Connection Down Message

### Issue

The Wave ForexLiberator EA got attached to a chart and the EA is up and running. The EA monitors the connection between the MT5 terminal and the broker server. When the MT5 loses connection to the broker server then the EA presents this Connection Down message in its dashboard - see the orange message as an example:



In the above screenshot the last connection issue happened at 14:19 broker server time (chart time).

This means that somewhere along the Internet connection path from your computer to the broker server, including your home networks, the Internet and your brokers remote networks, there was some temporary issue resulting in data transfer interruption.

During this time the Wave ForexLiberator EA cannot receive price feed from the broker, i.e. no ticks are coming in. This also means that, due to the lack of price feed and ticks, the EA is not activated and cannot perform trading or managing open trades. When the MT5 re-establishes the connection to the broker server and price feed comes in again then the EA automatically resumes its trading operations.

## Solution

In order to minimize the downtime, please ensure the following:

1. Your computer is connected to your home networks over a wire, i.e. cabled to your modem or router. Note that wireless connectivity is more prone to connection issues.
2. Use a cable based Internet service provider, if feasible. Wireless based Internet service providers, like mobile or cellular based Internet providers could have more connectivity issues.
3. [Turn off the sleep or hibernation mode](#) on your computer. When your computer goes into sleep or hibernation the Internet connection would be lost.
4. If in doubt, restart your home networks: shutdown your computer, turn off your modem or router, wait 10 seconds then turn back on the modem/router then your computer.

## 5.19 Computer Always-on

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### Question

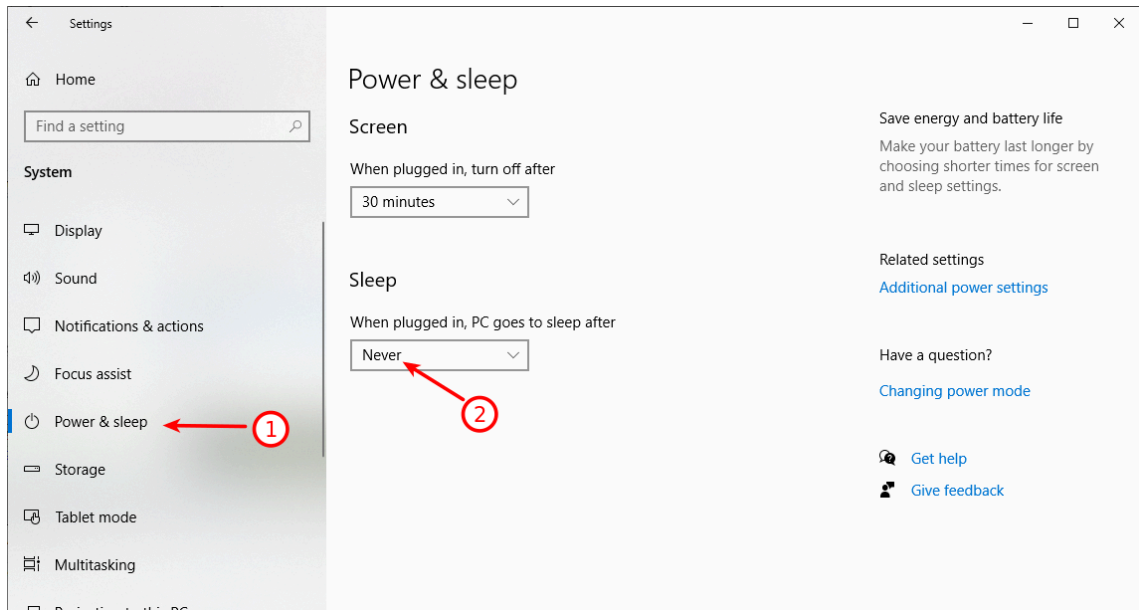
How to ensure that Windows does not go into sleep or hibernation mode?

### How to Turn off Sleep & Hibernation

Ensure that your computer is turned on throughout the FOREX market hours from Monday to Friday, and your computer is running the MT5 application and the EA is attached to a chart. Simply leave your computer and the MT5 up and running at all times. Please ensure that your Windows does not go into sleep or hibernation mode:

1. Go to **Start > Windows Settings > Power & Sleep**

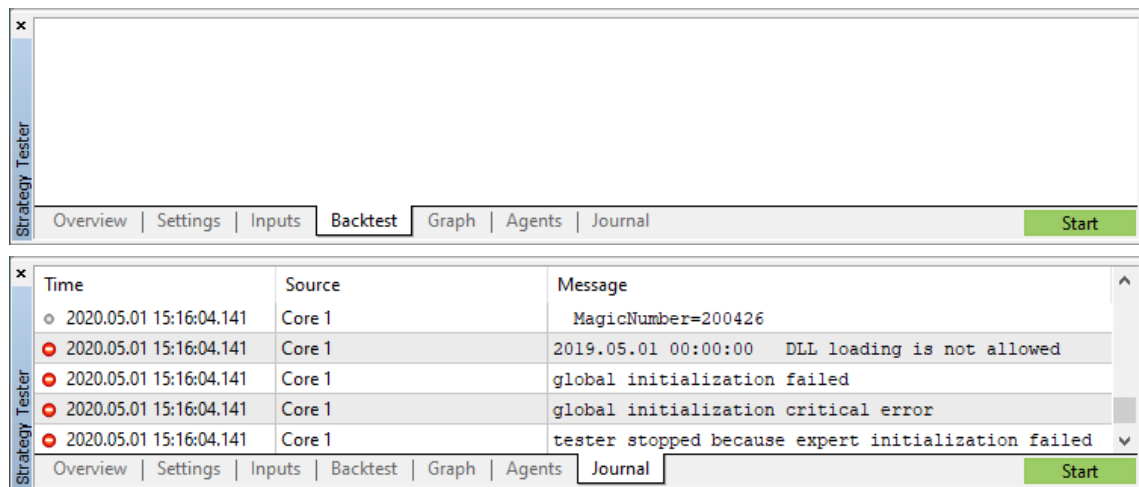
## 2. Select **Never** in the dropdown:



## 5.20 No Trades During Backtesting

### Issue

After the backtest finished no trades are showing.



If you see no trades during backtesting then usually it is down to EA settings issue.

### Run a Backtest in Visual Mode

In order to see any settings issue with the the Wave ForexLiberator EA I would suggest to run a backtest in Visual mode. This would give a chance to see the EA dashboard and any error message in it.

Go to the MT5 Strategy Tester window and tick the **Visual mode** box:



**Tip:** In the event of no **Visual mode** box is visible then follow the steps in the [Visual Mode Checkbox Missing in Strategy Tester](#) topic.

Now run the backtesting in visual mode: click on the Start button. The Visual mode would make visible any potential EA messages in the backtesting chart, giving hints for next steps.

Watch out for any **red messages** in the chart area.

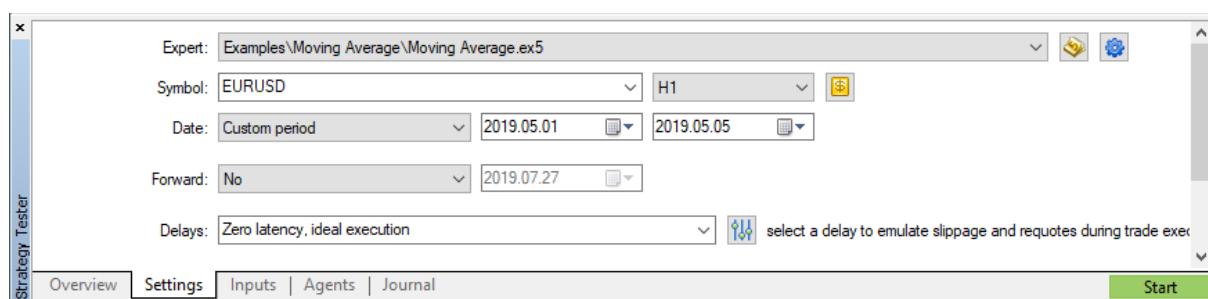
You may find these knowledge based topics useful to resolve them:

- [Backtest In Visual Mode Not Working](#), and
- [Backtest Not Working](#)

## 5.21 Visual Mode Checkbox Missing in Strategy Tester

### Issue

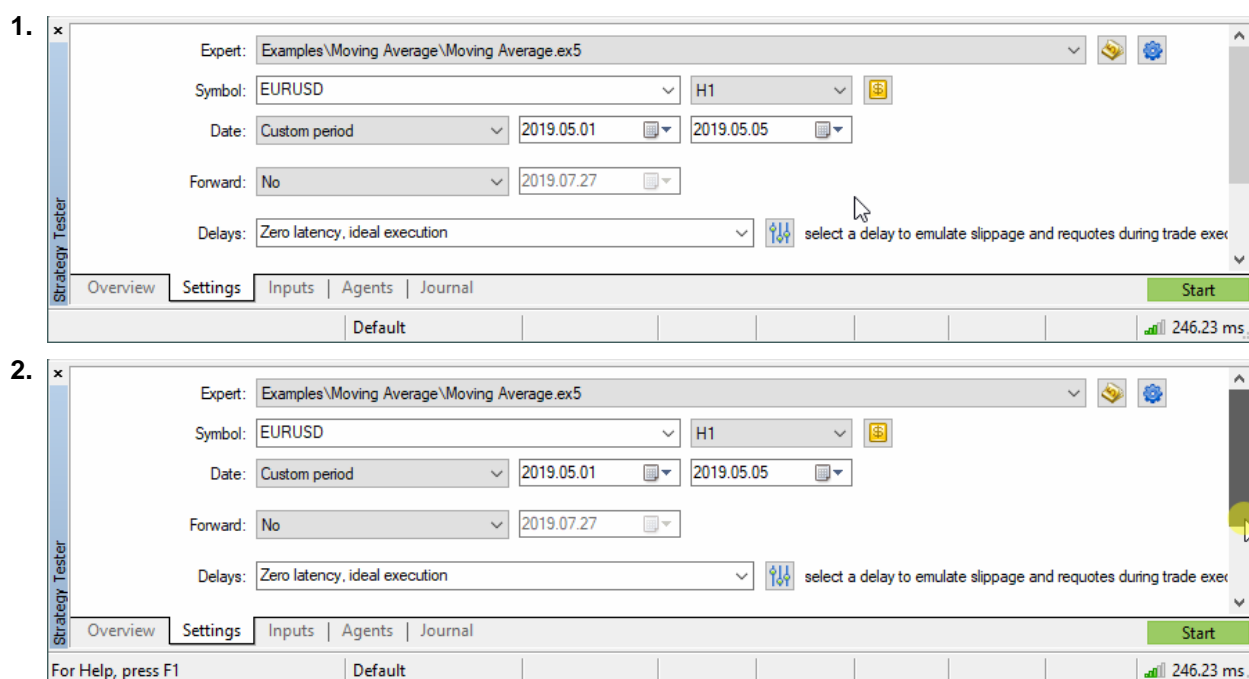
Visual mode checkbox is missing in the Strategy Tester.



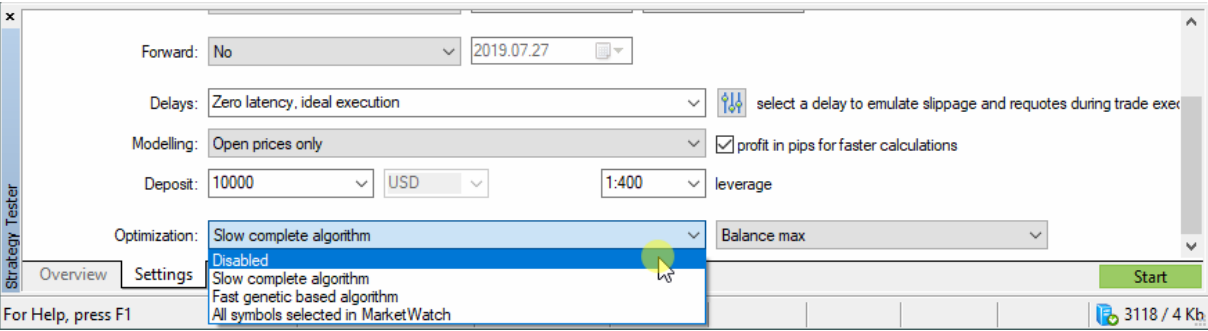
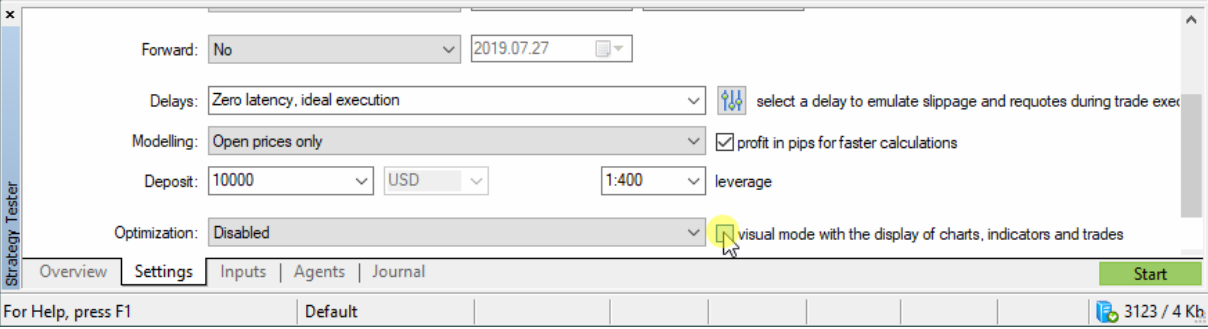
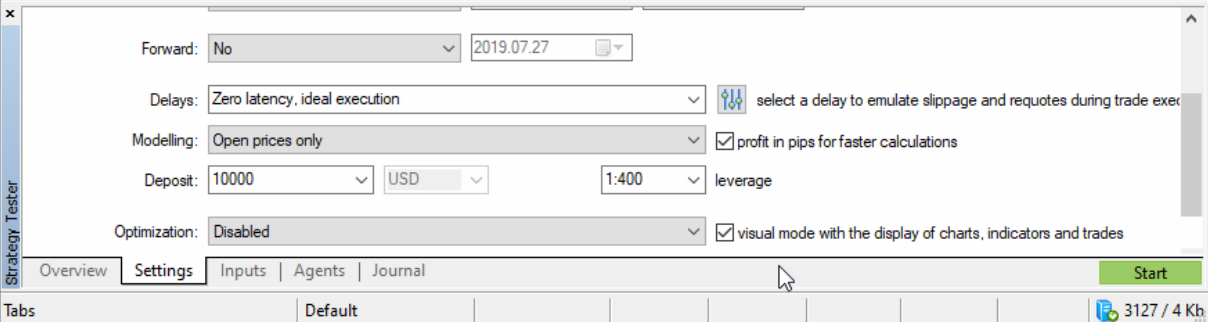
### Solution

The Strategy Tester window hides some control elements when the window itself is not tall enough, i.e. the **Optimization** dropdown and the **visual mode** checkbox could become hidden.

Scroll down the Strategy Tester window to make visible the **Optimization** dropdown and the **visual mode** checkbox controls:



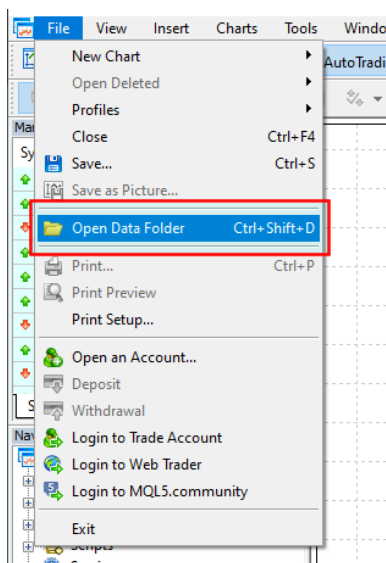


3. 
4. 
5. 

## 5.22 Step-by-step Installation of Expert4x EAs and Indicators

In this tutorial the name of *MetaTrader* is used as an example. Replace the *MetaTrader* with your broker specific MetaTrader name.

1. Start your MT5 terminal and select the **File > Open Data Folder** menu

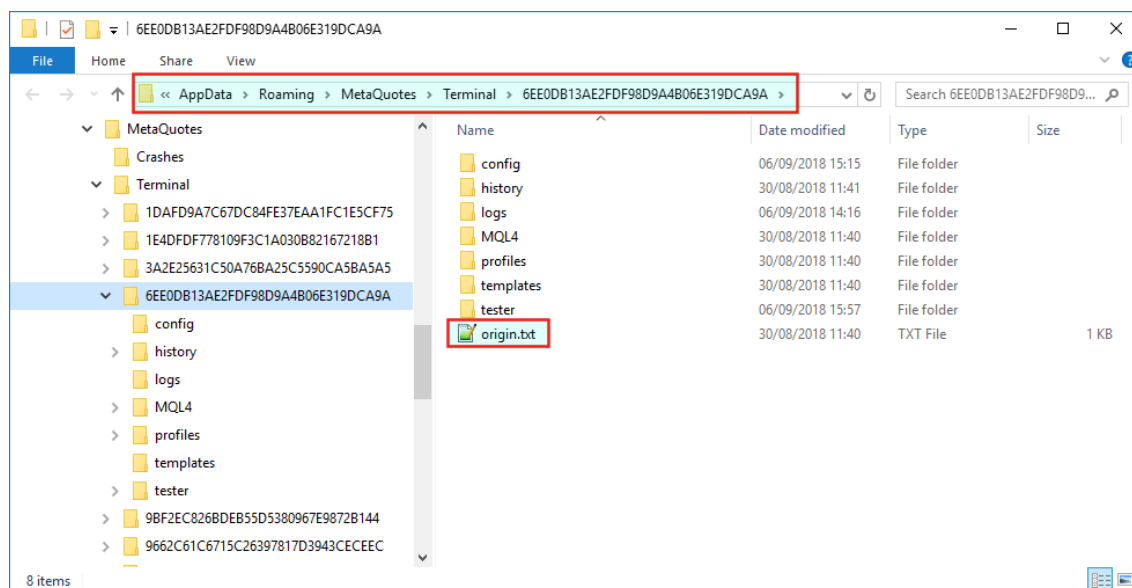


The menu opens a **File Explorer**.

2. Close your MT5

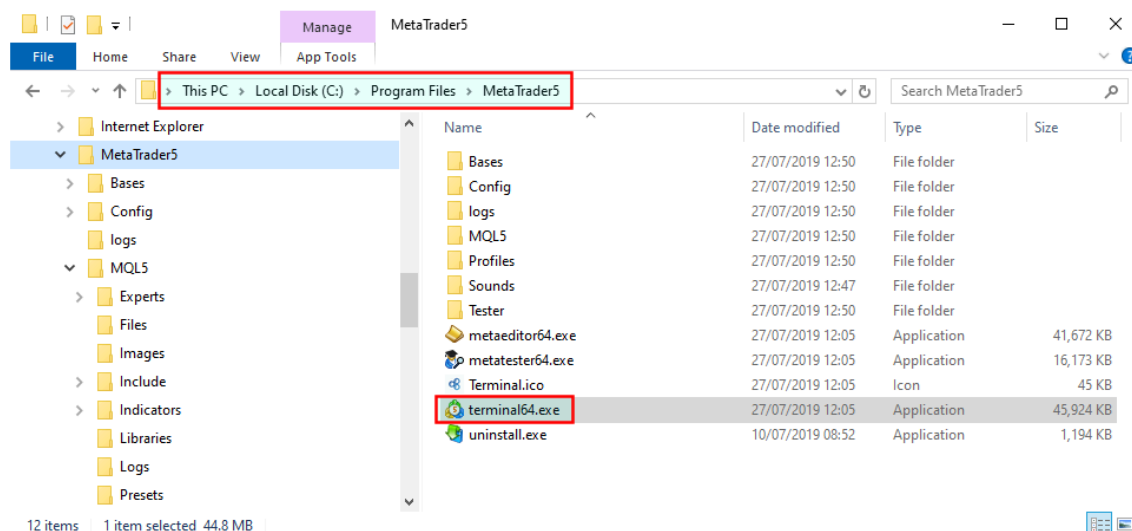
### 3. Check the *File Explorer*

- If the **File Explorer** shows a folder like this one below



and you see the **origin.txt** or the **origin** file go to the [standard installation](#) page.

- If the **File Explorer** shows a folder like this one below



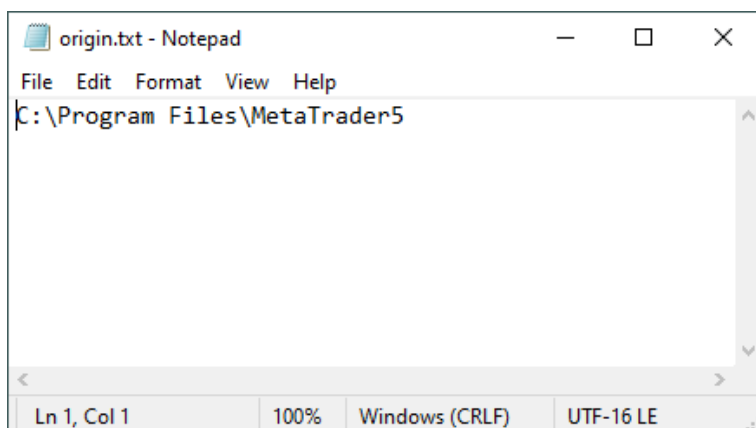
and you see the **terminal.exe** or **terminal** file go to the [non-standard installation](#) page.

## 5.22.1 Standard EA, Indicator installation

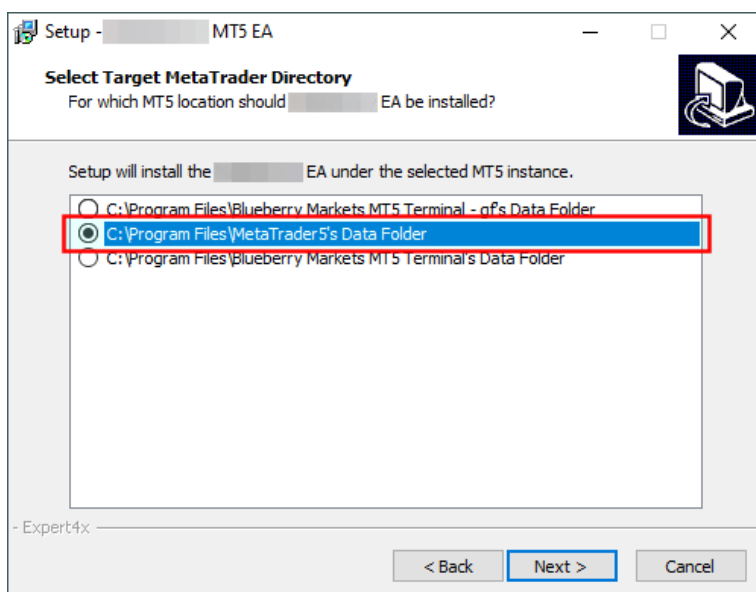
In the opened **File Explorer** the **origin.txt** or the **origin** file was found.

Please follow through the steps below to install the Expert4x EA or Indicator on your MT5

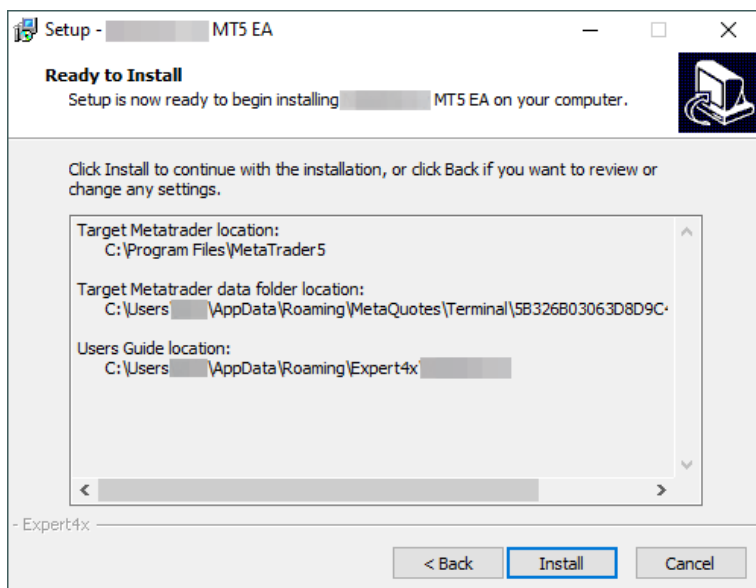
1. Double click the **origin.txt** file and take a note of the MetaTrader location.



2. Start the EA or indicator setup program. Follow through the setup until you reach the **Select Target MetaTrader Directory** window.



3. In this window **select** your targeted MetaTrader's Data Folder, as per the origin.txt noted earlier, and click **Next**
4. Follow through the rest of the setup application.
5. In the end click **Install**



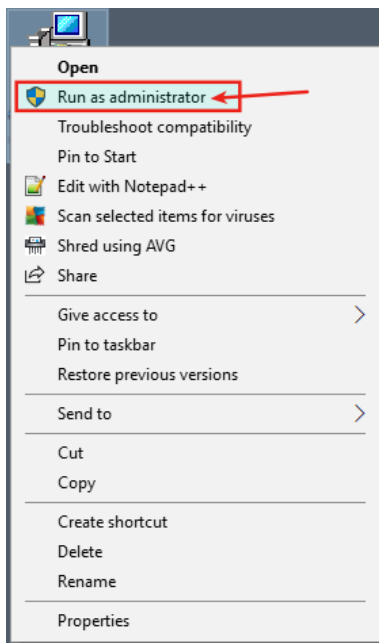
6. Check the EA or Indicator in the MetaTrader after installation
  - a. Start your MetaTrader
  - b. In the **Navigator panel** open the Expert Advisors section if you installed an EA or the Indicators section if you installed an Indicator and look for the EA or Indicator.

## 5.22.2 Non-standard EA, Indicator installation

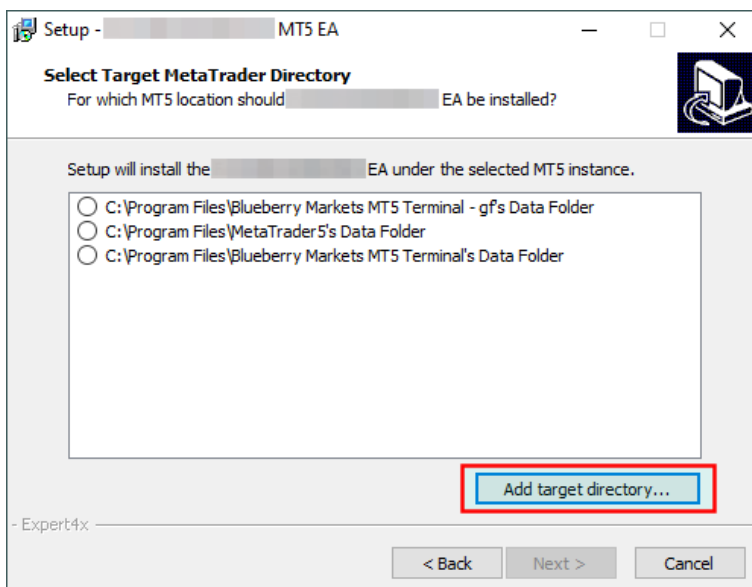
In the opened **File Explorer** the **terminal.exe** or **terminal** file was found.

Please follow through the steps below to install the EA or Indicator on your MT5

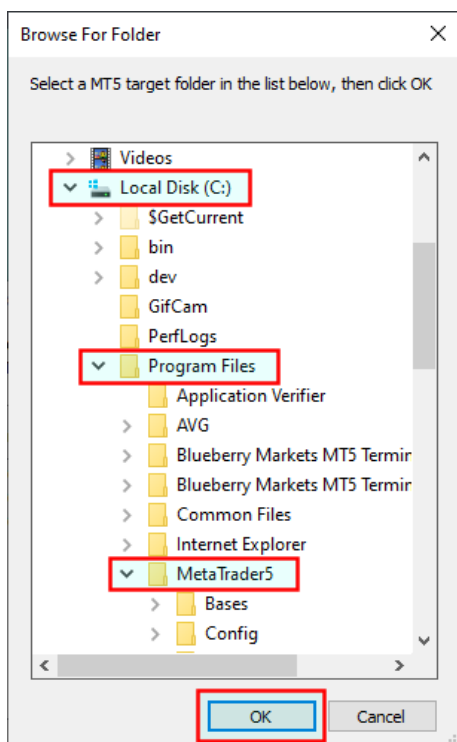
1. Right click on the name of the Setup application
2. Select **Run as administrator** (You may get a few security warning or you may need to type in the Windows administrator password)



3. Follow through the application until you reach the **Select Target MetaTrader Directory** window.
4. Click **Add target directory...** button

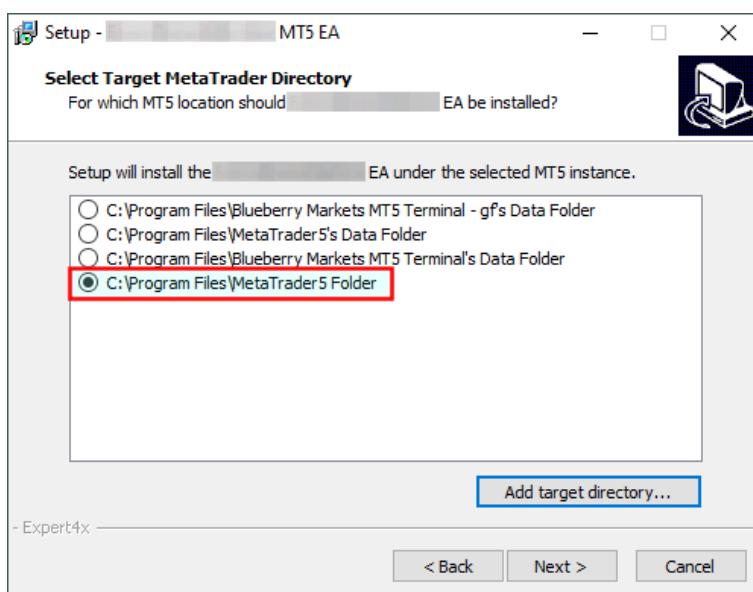


5. Navigate to your MetaTrader folder



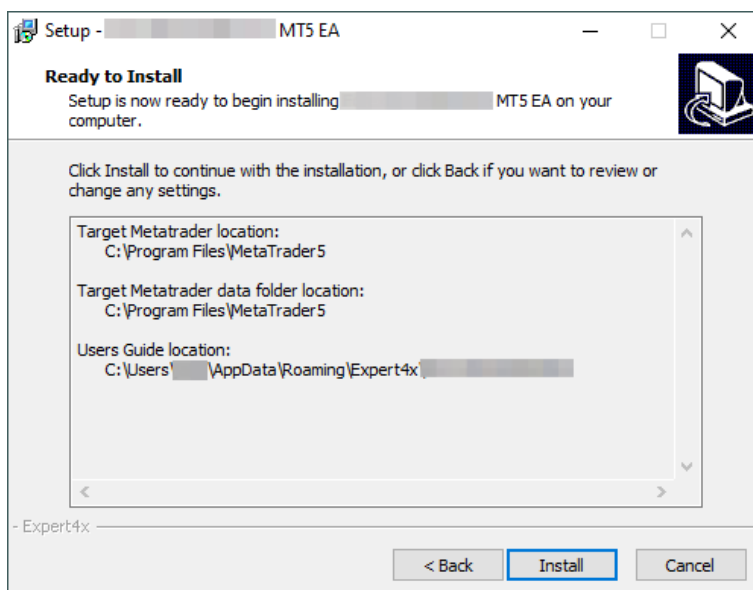
and click **OK**.

6. Scroll down to the end of the list. **Select** the target directory. Click **Next**.



7. Follow through the rest of the setup application.

## 8. In the end click **Install**



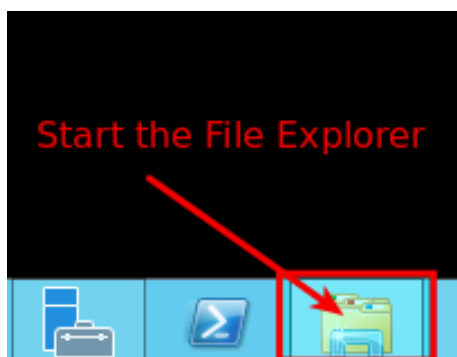
## 9. Check the EA or Indicator in the MetaTrader after installation

- a. Start your MetaTrader
- b. In the **Navigators panel** open the Expert Advisors section if you installed an EA or the Indicators section if you installed an Indicator and look for the EA or Indicator.

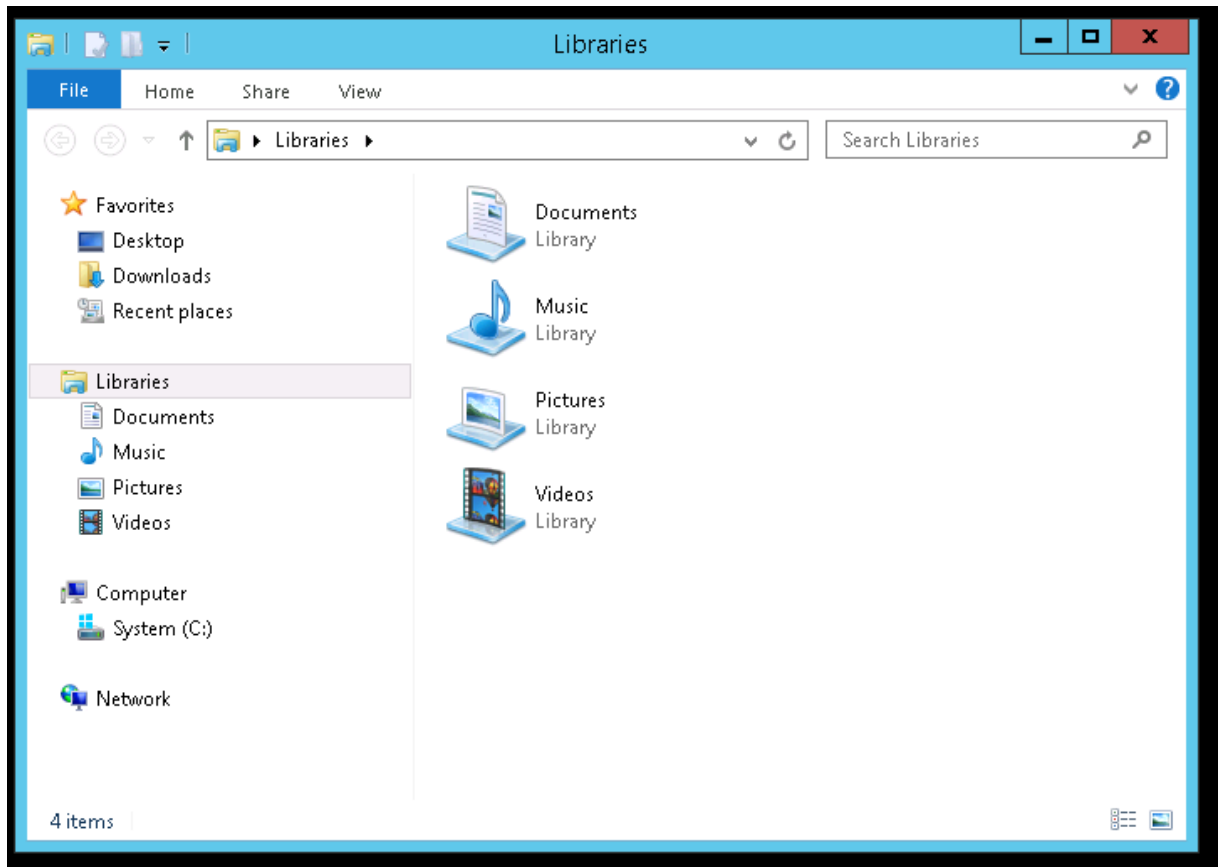
## 5.23 How to download an EA setup in VPS environment

In this topic we guide you through the EA setup application download in VPS environment.

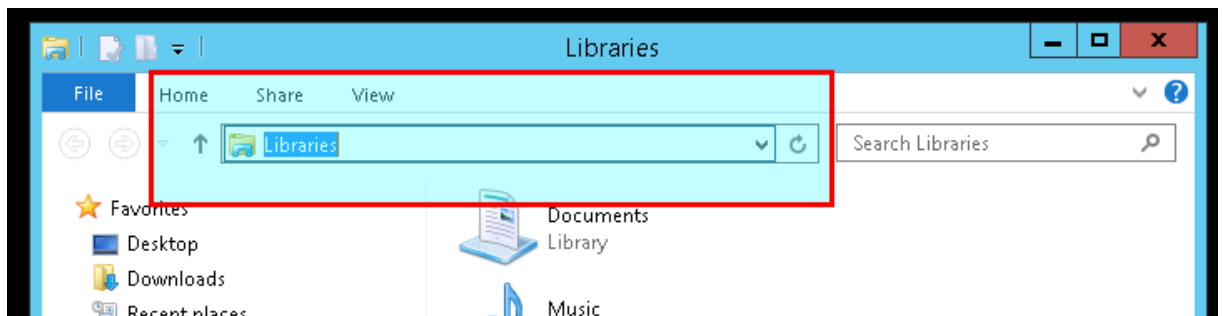
### 1. Start the **File Explorer**: Click the **File Explorer**



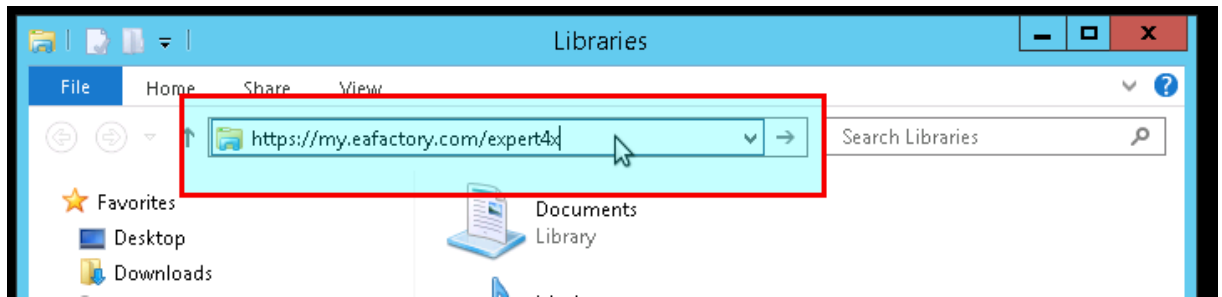
2. The **File Explorer** started.



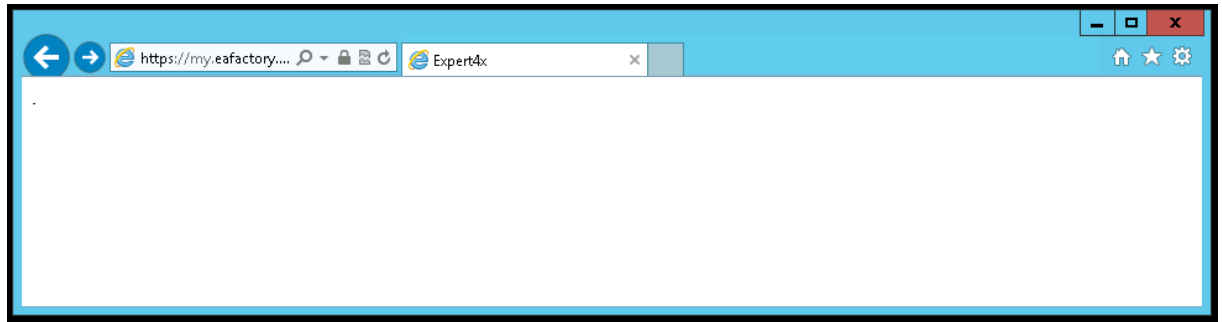
3. Select the address bar section



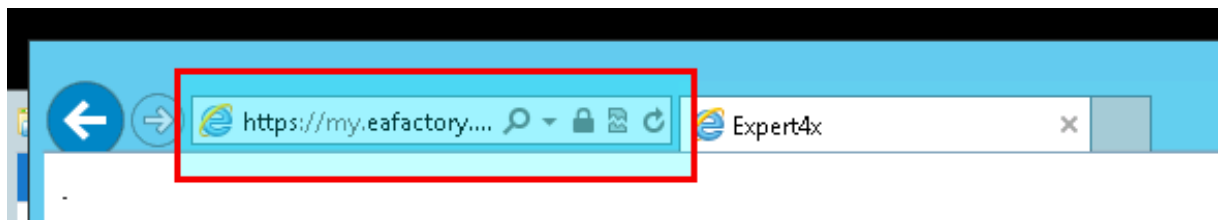
4. Type in: <https://my.eafactory.com/expert4x> and press Enter to start the Internet Explorer



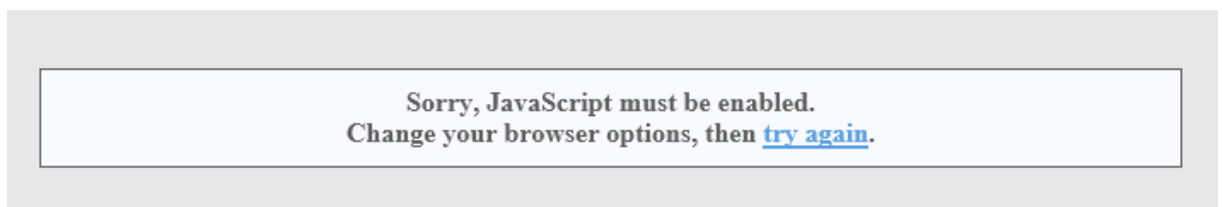
Did you get blank screen? As you see below:



If yes, please select the address bar in the Internet Explorer and type in: <https://my.eafactory.com/UserInterface/index.zul?p=1>



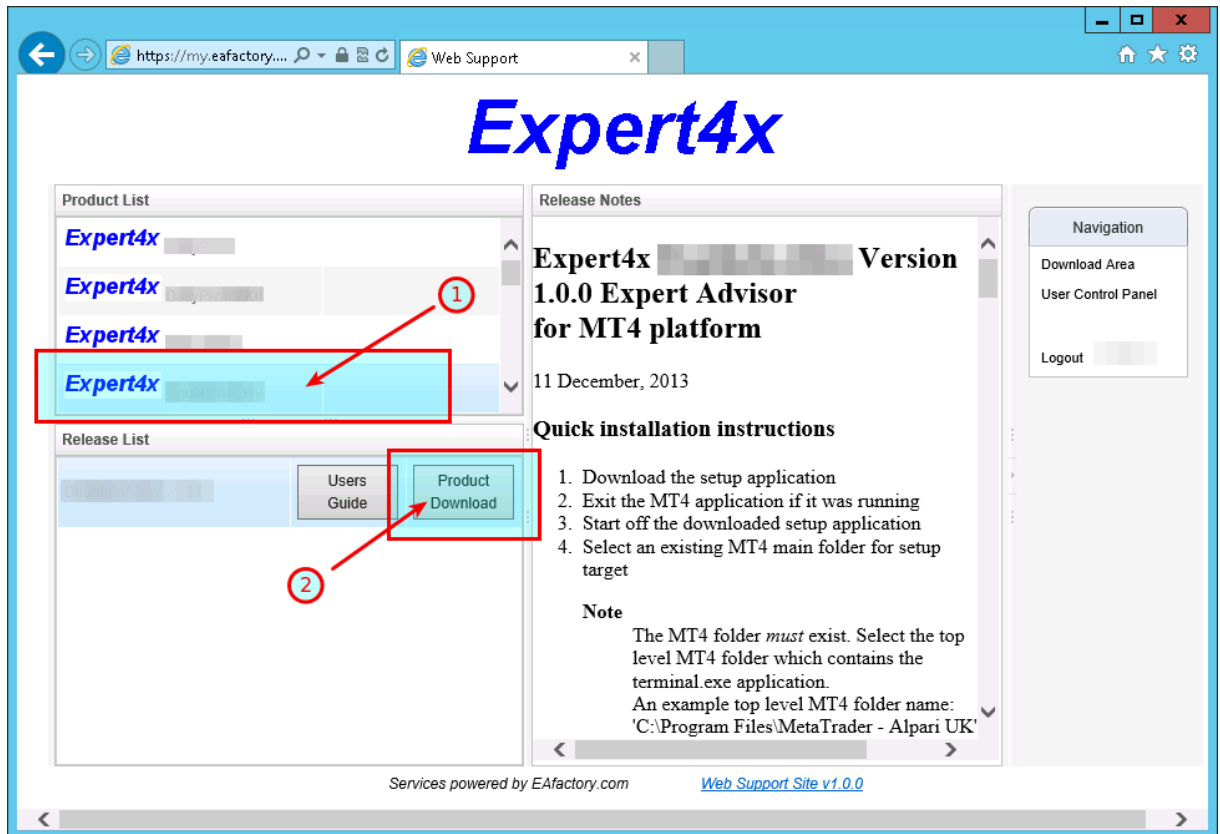
If you got this message below you may need to adjust temporary your [Internet security settings](#).



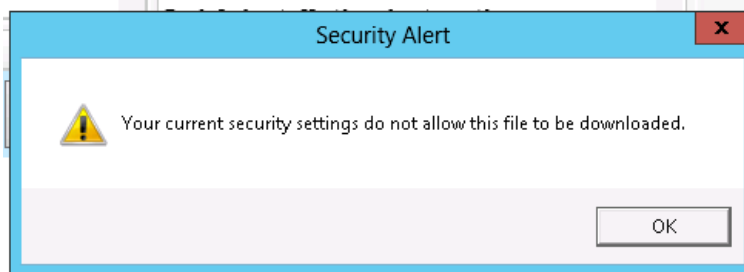
5. When the Web support Site is appeared please log in



6. Select the EA name from the **Product List** and click **Product Download** in the **Release List**

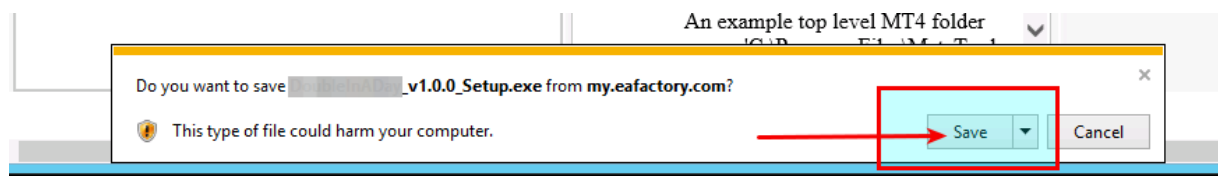


If you got this message below you may need to adjust temporary your Internet security settings to [enable downloads](#).



#### Warning messages related to the download

- Do you want to save Wave ForexLiberator EA\_v3.0.0\_Setup.exe ...?



Click **Save** to resolve this warning

- If you use Internet Explorer 9.0 you may get this message:

**Wave ForexLiberator EA\_v3.0.0\_Setup.exe is not commonly downloaded and could harm your computer**

This message is a new features in Internet Explorer 9.0. IE 9.0 has increased user security.

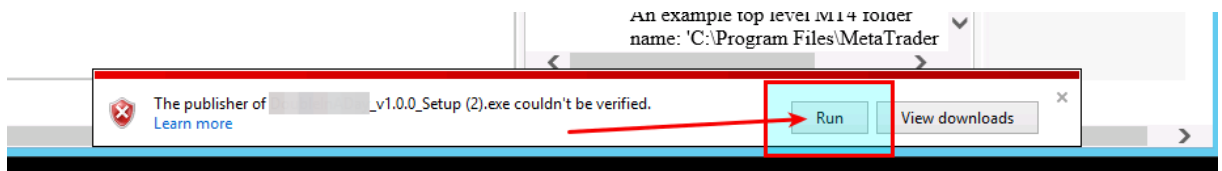
*"When you download a program from the Internet, SmartScreen Filter will check the program against a list of programs that are downloaded by a significant number of other Internet Explorer users and a list of programs that are known to be unsafe. If the program you're downloading isn't on either list, SmartScreen Filter will display a warning that the file*

isn't "commonly downloaded." It doesn't necessarily mean the website is fraudulent or that the program is malware, but you probably shouldn't download or install the program unless you trust the website and the publisher."

Source: <http://windows.microsoft.com/en-US/windows7/SmartScreen-Filter-frequently-asked-questions-IE9?SignedIn=1>

These are the steps if you'd like to continue installing the Wave ForexLiberator EA EA:

- a. Click the **Action** button in the displayed message
  - b. In the dialog box click the **down arrow** to the left of More options, and click **Run anyway**
7. After the successful download the Internet Explorer may show this message



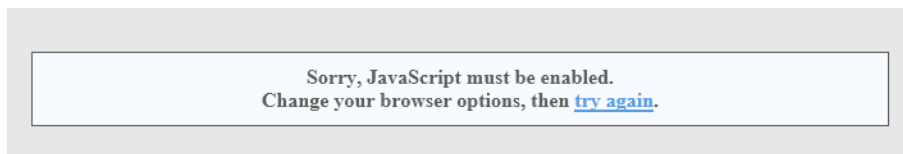
To start the installation process after the download click **Run**

8. [Clean up after the download](#) in the Internet Explorer

## 5.23.1 How to enable JavaScript in your Internet Explorer

### Issue

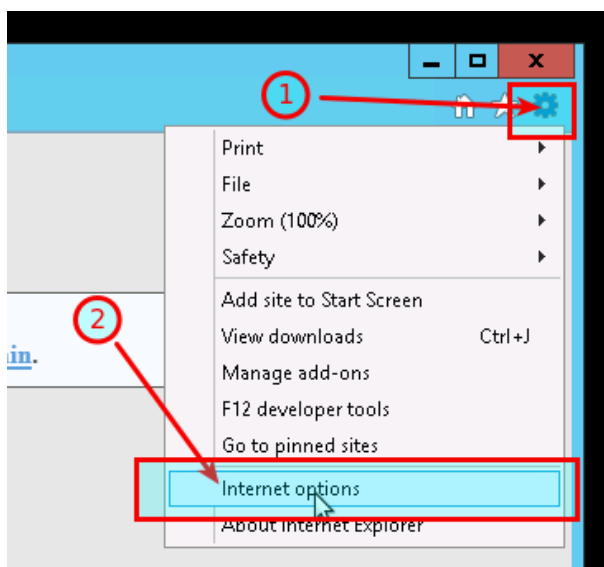
I tried to load the [Web Support Centre](#) in the **Internet Explorer** But the following error message popped up.



### JavaScripts are disabled in the Internet Explorer

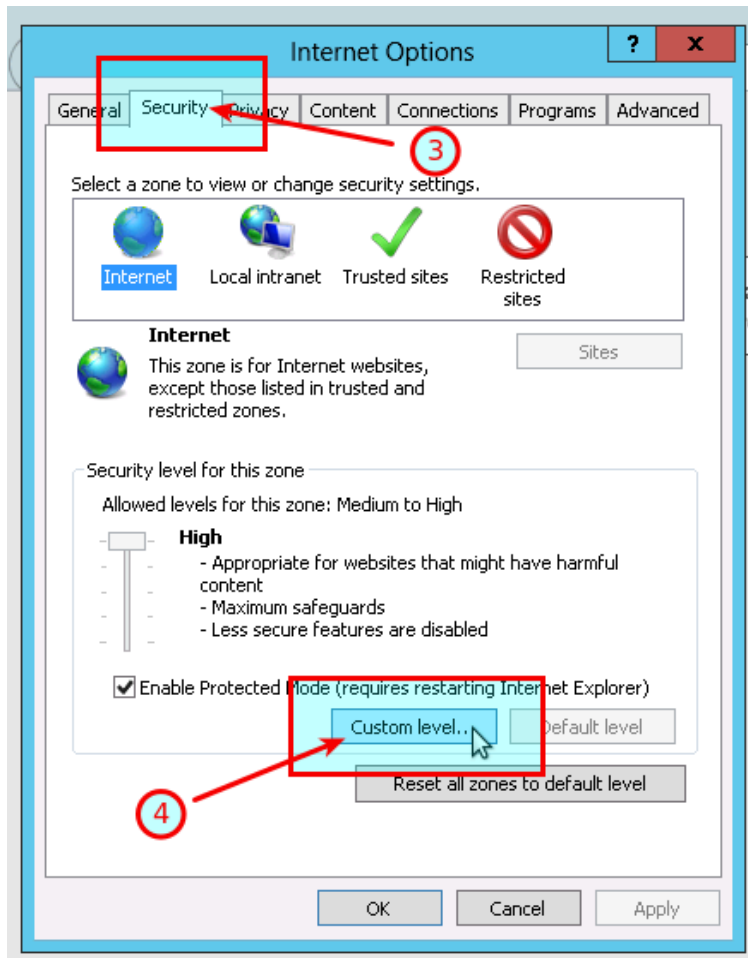
To load the [Web Support Centre](#) you may need to enable the usage of JavaScript in the **Internet Explorer**

1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



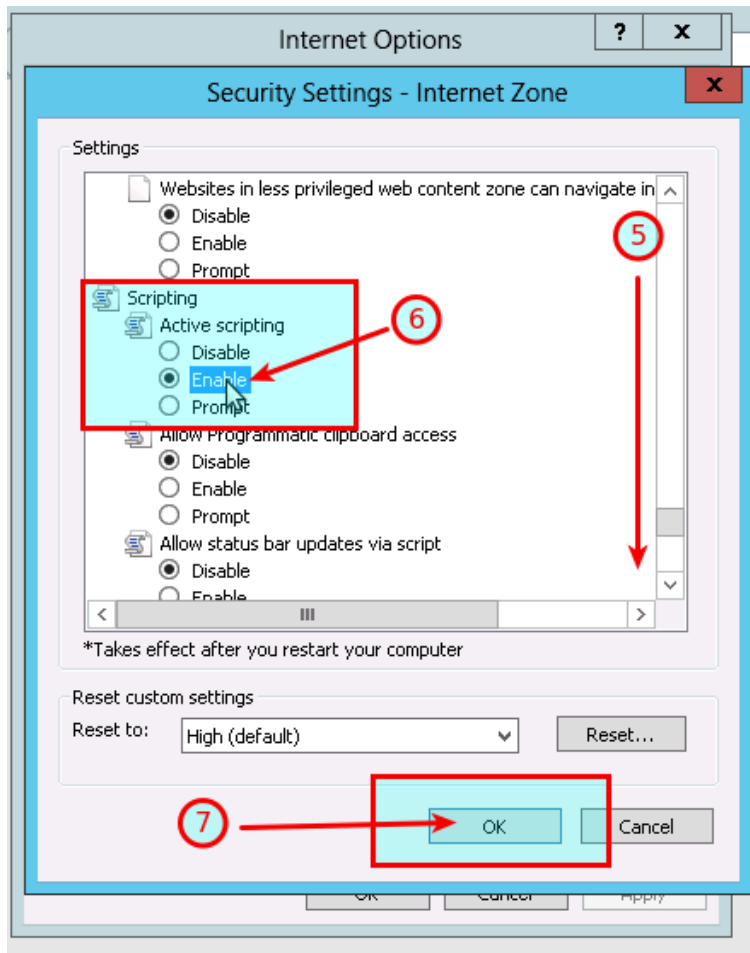
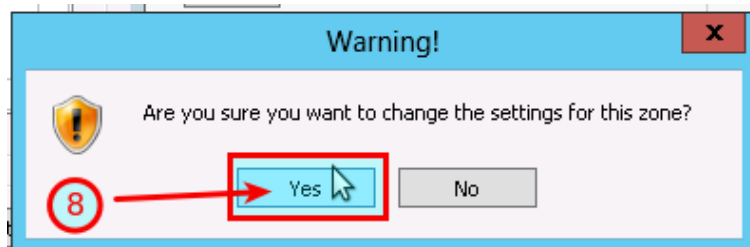
3. Go to the **Security** tab

#### 4. Select **Custom level**



#### 5. Scroll down until you see **Scripting**

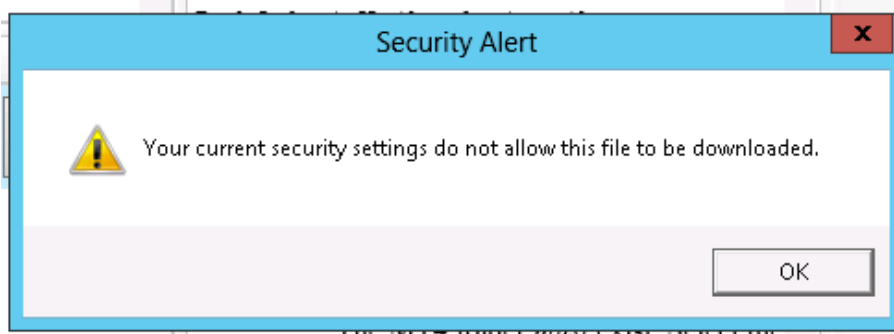
#### 6. Under the **Active scripting** select **Enable**

7. Click **OK**8. Click **OK**9. Refresh the <https://my.eafactory.com/UserInterface/index.zul?p=1> page and login

## 5.23.2 How to Enable Download in your Internet Explorer

### Issue

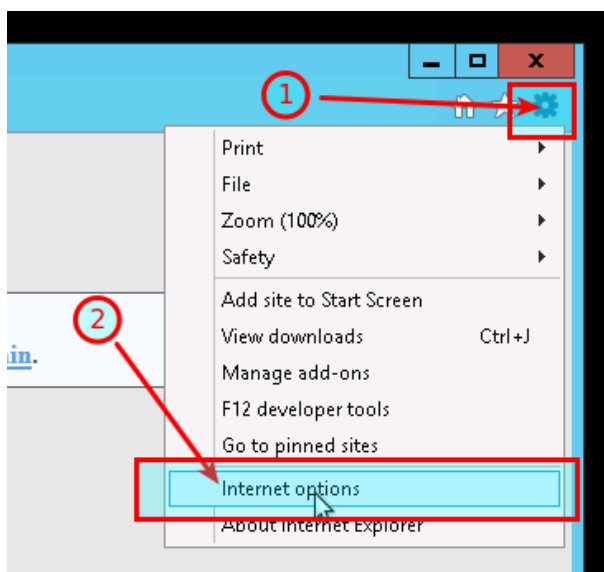
I tried to download the EA setup application in the **Internet Explorer** But the following error message popped up.



## File download is disabled in the Internet Explorer

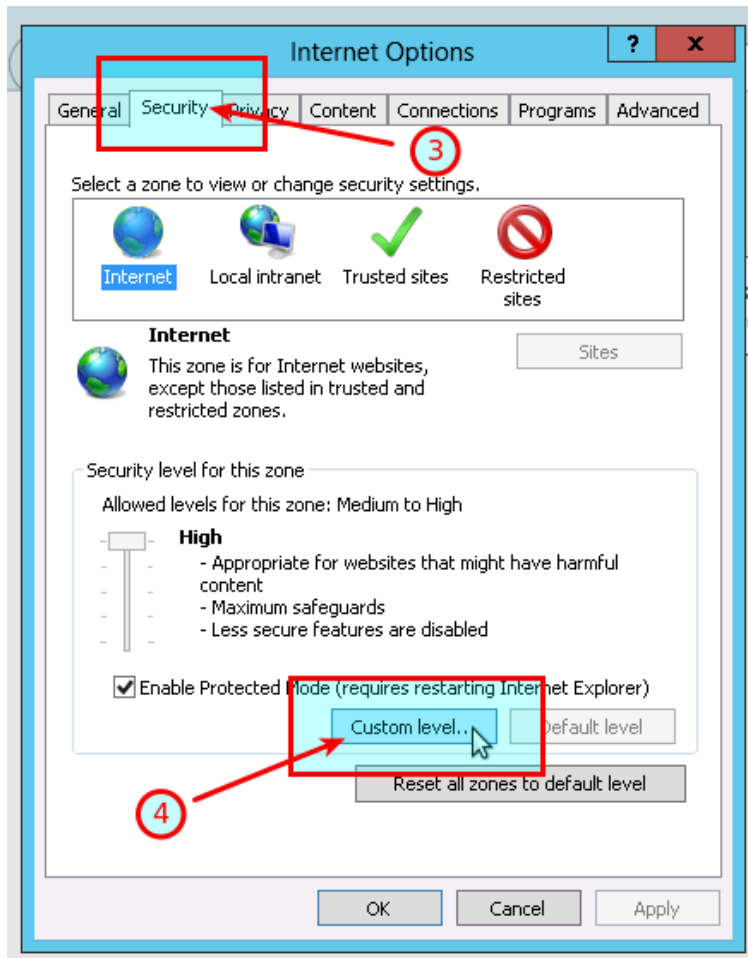
To download a file you may need to enable the Download in the **Internet Explorer**

1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



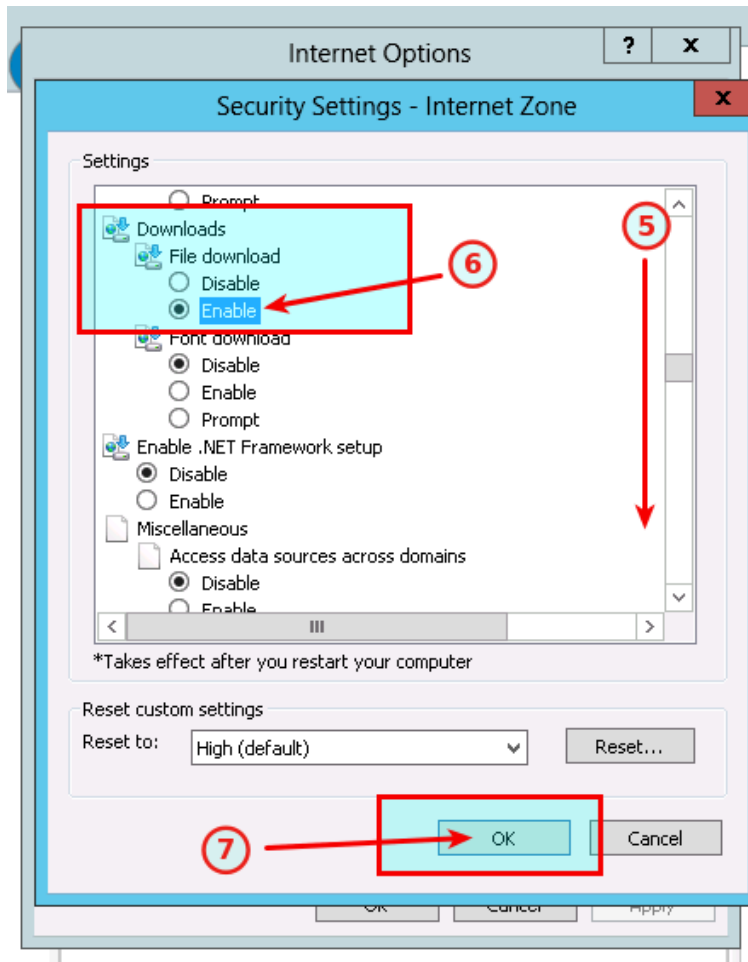
3. Go to the **Security** tab

#### 4. Select **Custom level**

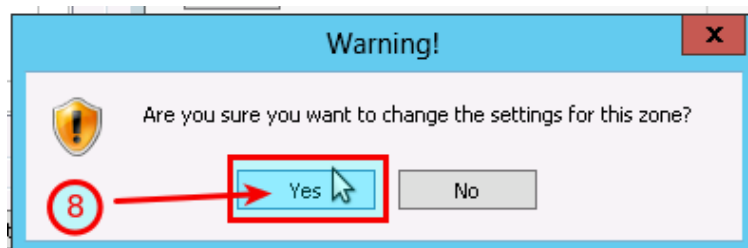


5. Scroll down until you see **Downloads**
6. Under the **File download** select **Enable**

7. Click **OK**



8. Click **OK**



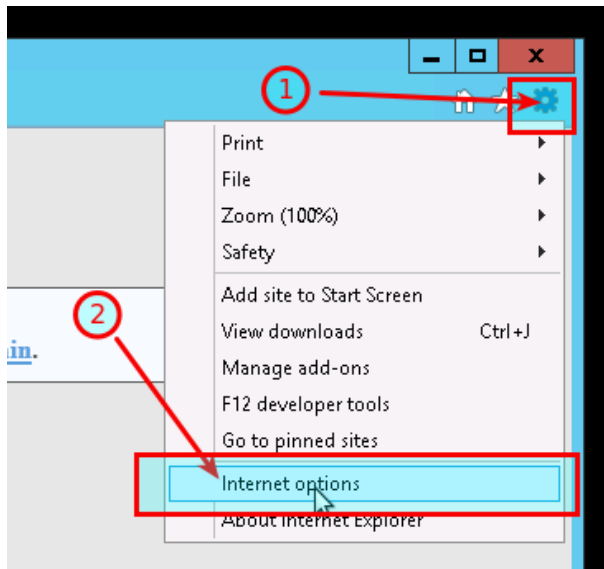
9. click the **Product Download** button again

### 5.23.3 Clean up after the download in the Internet Explorer

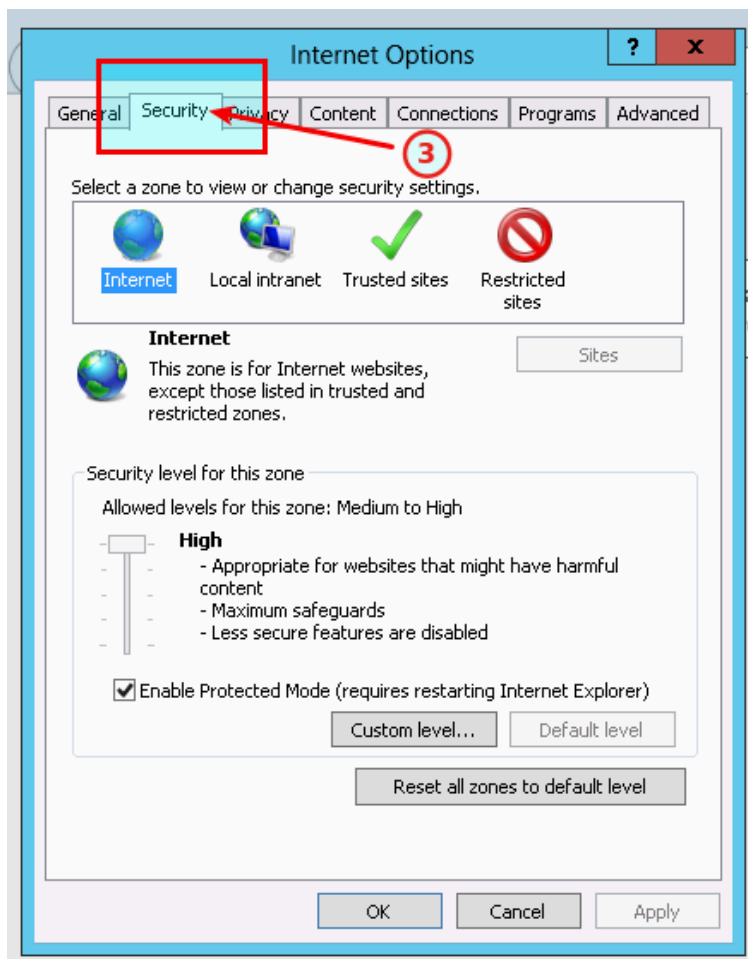
In this topic we guide you through how to clean up after download in VPS environment.

1. In the Inter Explorer click **Tools** icon

## 2. Select Internet options

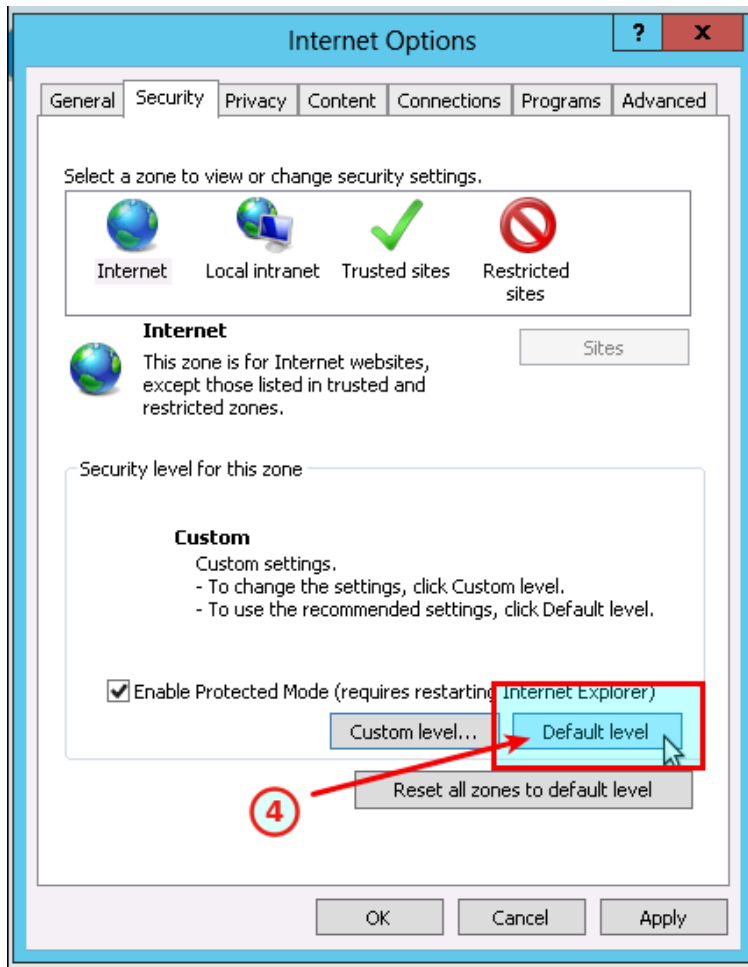


## 3. Go to the Security tab

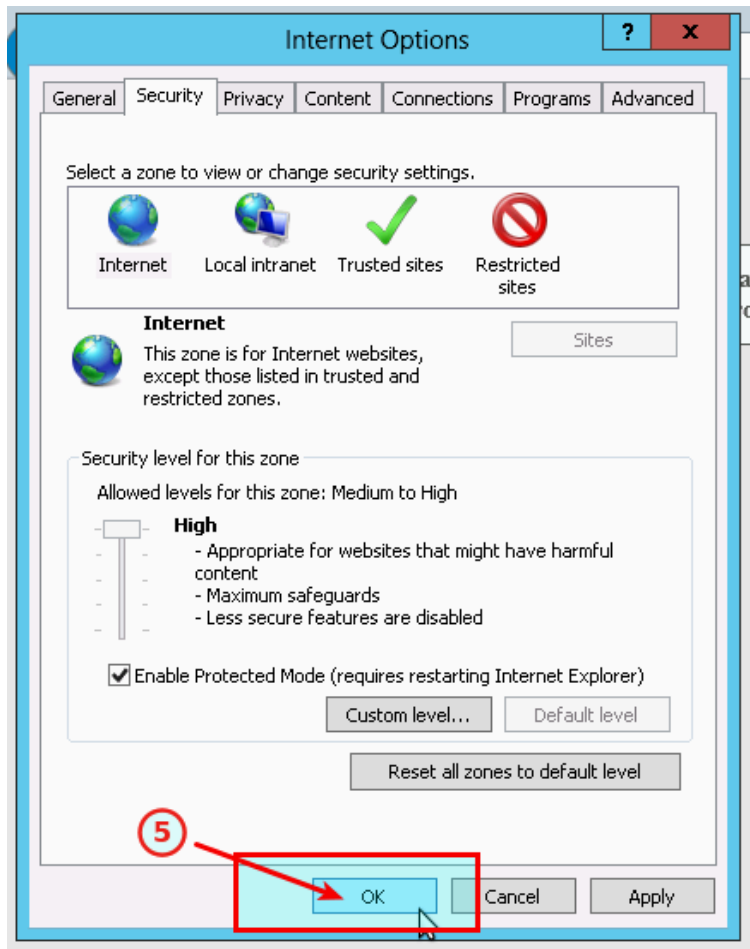




#### 4. Click the **Default level**



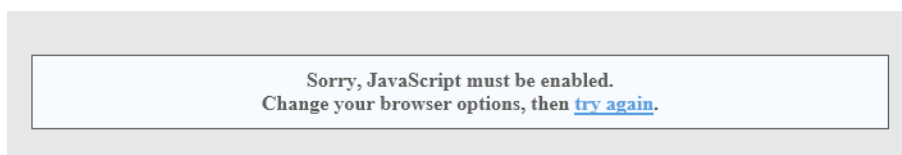
## 5. Click OK



## 5.24 How to enable JavaScript in your Internet Explorer

### Issue

I tried to load the [Web Support Centre](#) in the **Internet Explorer** But the following error message popped up.

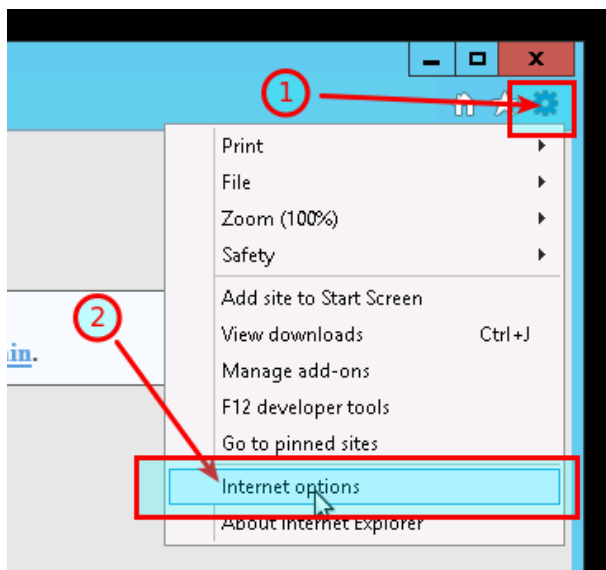


### JavaScripts are disabled in the Internet Explorer

To load the [Web Support Centre](#) you may need to enable the usage of JavaScript in the **Internet Explorer**

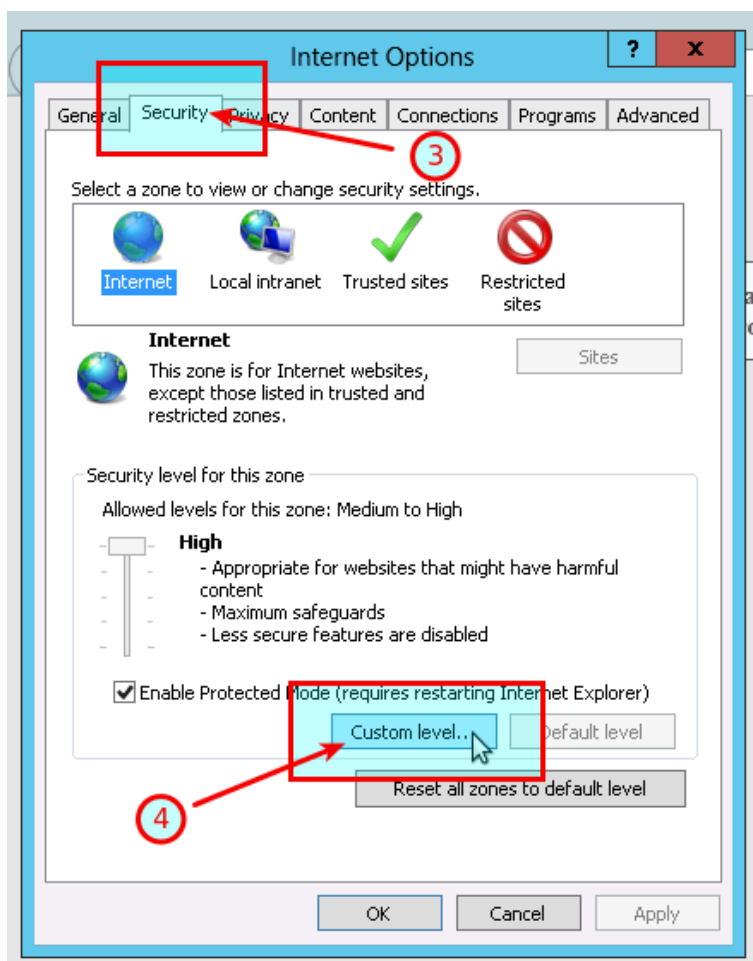
1. In the Inter Explorer click **Tools** icon

## 2. Select Internet options



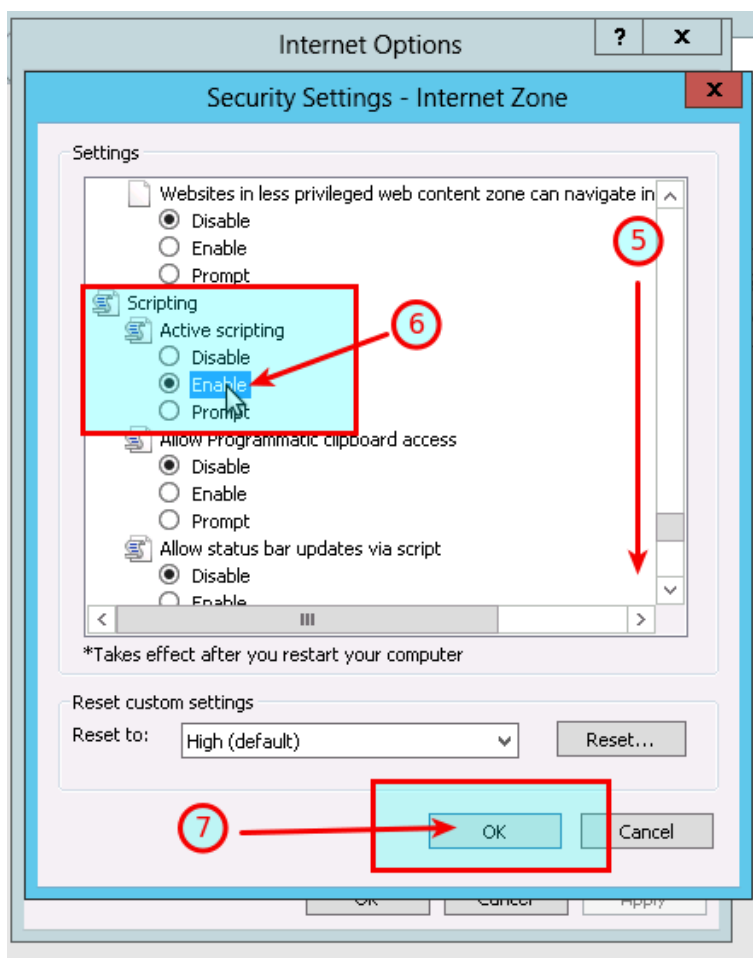
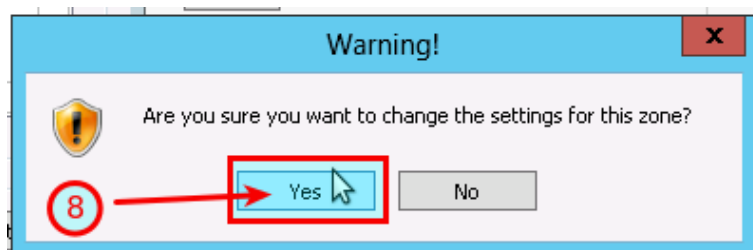
## 3. Go to the Security tab

## 4. Select Custom level



## 5. Scroll down until you see Scripting

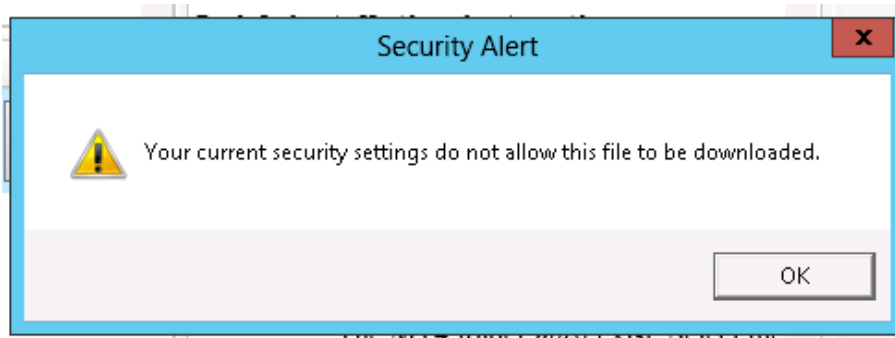
## 6. Under the Active scripting select Enable

7. Click **OK**8. Click **OK**9. Refresh the <https://my.eafactory.com/UserInterface/index.zul?p=1> page and login

## 5.25 How to Enable Download in your Internet Explorer

### Issue

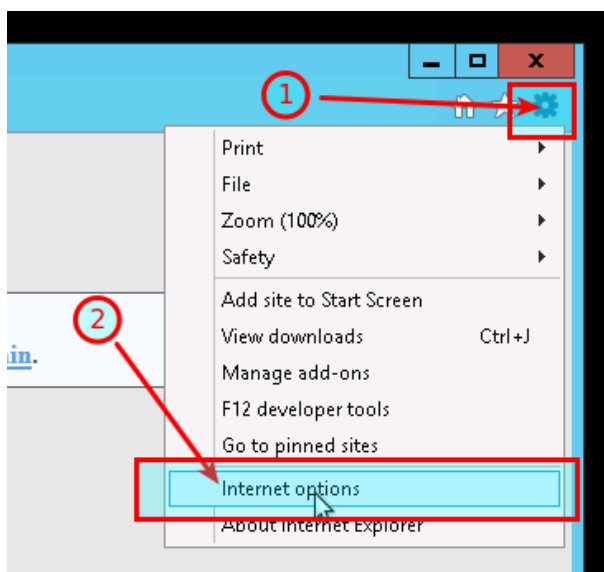
I tried to download the EA setup application in the **Internet Explorer** But the following error message popped up.



## File download is disabled in the Internet Explorer

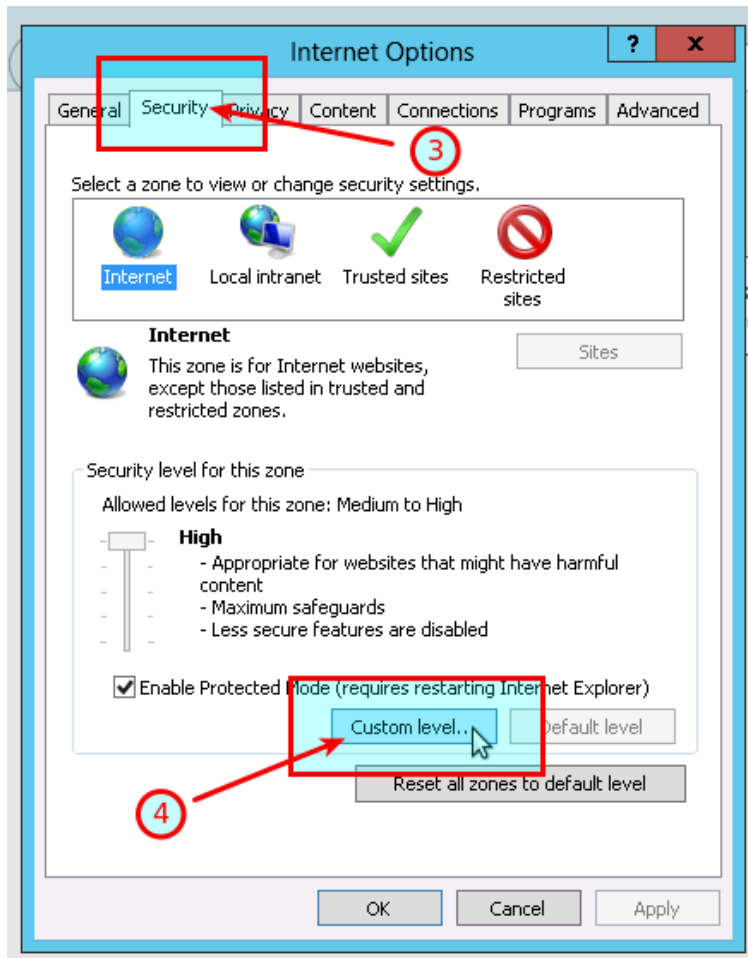
To download a file you may need to enable the Download in the **Internet Explorer**

1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



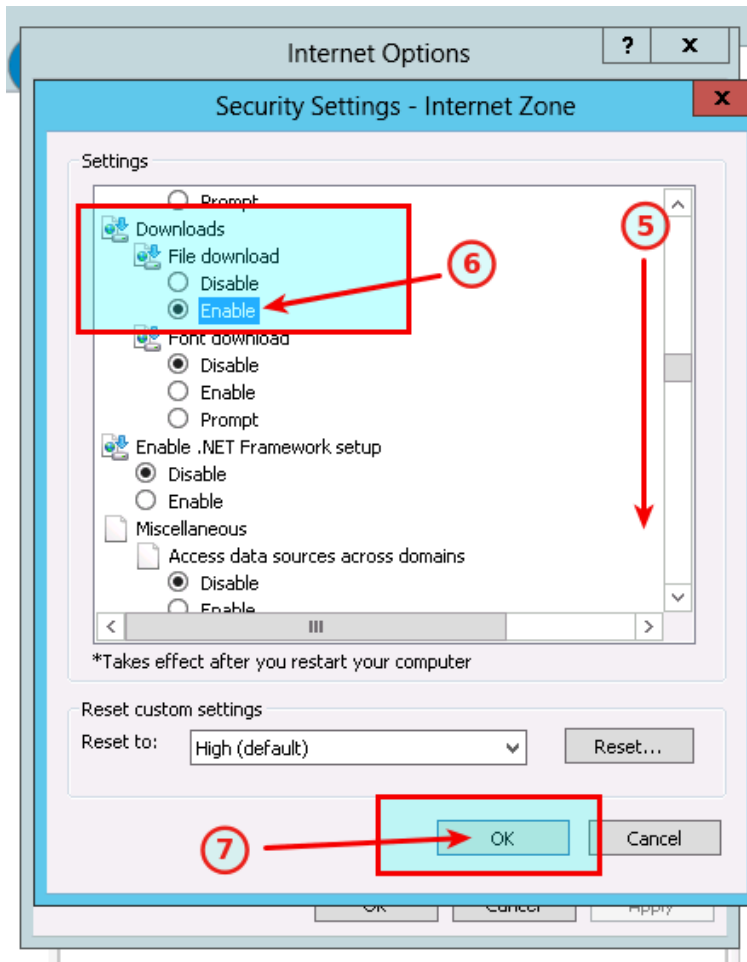
3. Go to the **Security** tab

#### 4. Select **Custom level**

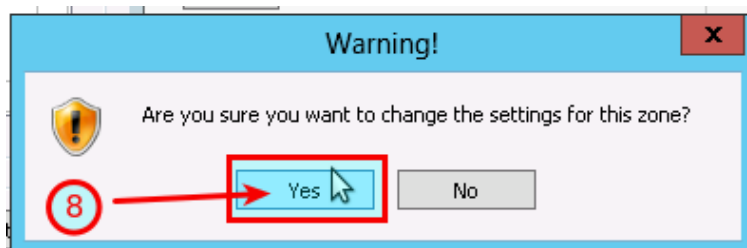


5. Scroll down until you see **Downloads**
6. Under the **File download** select **Enable**

7. Click **OK**



8. Click **OK**



9. click the **Product Download** button again

# Chapter

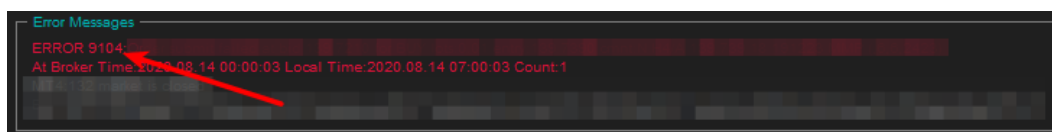
# 6

## Operational Messages

The Wave ForexLiberator EA operational messages and resolution guide.

### Expert Advisors Operational Messages

Observe the message number displayed in **red** in the EA dashboard. Find that EA code in the table below and click on that number to see the details and possible resolutions:



EA Code	Severity	Message	Description
1001	Error	Setup problem: DLL imports not allowed. Tick Allow DLL imports in Common tab of the properties window.	Configuration setting is missing to allow the EA to use dynamically loaded libraries (DLLs). Enable the load of DLLs and restart the EA. <a href="#">More...</a>
1002	Error	Incomplete EA installation: Run setup application for MT5 instance "<MT5DataPath>'s Data Folder"	Product installation is not complete or damaged. Run the setup application for the MT5 terminal instance as displayed. <a href="#">More...</a>
1006	Error	MT5 Expert Advisors are disabled: click AutoTrading icon on MT5 toolbar to execute the EA.	EA does not perform its operations, not monitoring nor reacting to price movements of the market. <a href="#">More...</a>
1007	Error	Live trading is not allowed (🎓 sign): press F7 and tick Allow live trading box on Common tab.	The EA is unable to perform trading operations, there is a 🎓 sign in the top right corner of the chart. <a href="#">More...</a>
1008	Error	Authentication failed or interrupted (<Stopped>, <Status>, <Response>, <Reason>, <FlipOverCount>, <Latency>)	The EA is not able to authenticate the user access to the service at its start up time. <a href="#">More...</a>
1121	Error	Order close failed at bid <Bid> for #<TicketNo> <TicketType> cmnt:<TicketComment> (<AttemptNo>, <TicketCount>/<TotalTicketCount>, <Latency>ms)	Attempt to close an open trade returned with error. <a href="#">More...</a>
1163	Warning	Connection - Down X times Last time...	The MT5 lost connection to the broker's server. <a href="#">More...</a>
2101	Error	Initialization failed	Initialization failed <a href="#">More...</a>
2118	Error	Service access disabled (<AccessID>, <ConfirmationID>) - shutting down...	The user quits the authentication process, or the EA is not able to authenticate the user access to the service. <a href="#">More...</a>

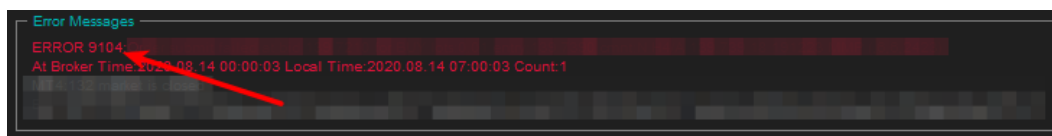


## 6.1 Operational Messages

Expert Advisor Operational Messages.

### Expert Advisors Operational Messages

Observe the message number displayed in **red** in the EA dashboard. Find that EA code in the table below and click on that number to see the details and possible resolutions:



EA Code	Severity	Message	Description
1001	Error	Setup problem: DLL imports not allowed. Tick Allow DLL imports in Common tab of the properties window.	Configuration setting is missing to allow the EA to use dynamically loaded libraries (DLLs). Enable the load of DLLs and restart the EA. <a href="#">More...</a>
1002	Error	Incomplete EA installation: Run setup application for MT5 instance "<MT5DataPath>'s Data Folder"	Product installation is not complete or damaged. Run the setup application for the MT5 terminal instance as displayed. <a href="#">More...</a>
1006	Error	MT5 Expert Advisors are disabled: click AutoTrading icon on MT5 toolbar to execute the EA.	EA does not perform its operations, not monitoring nor reacting to price movements of the market. <a href="#">More...</a>
1007	Error	Live trading is not allowed (🛑 sign): press F7 and tick Allow live trading box on Common tab.	The EA is unable to perform trading operations, there is a 🛑 sign in the top right corner of the chart. <a href="#">More...</a>
1008	Error	Authentication failed or interrupted (<Stopped>, <Status>, <Response>, <Reason>, <FlipOverCount>, <Latency>)	The EA is not able to authenticate the user access to the service at its start up time. <a href="#">More...</a>
1121	Error	Order close failed at bid <Bid> for #<TicketNo> <TicketType> cmnt:<TicketComment> (<AttemptNo>, <TicketCount>/<TotalTicketCount>, <Latency>ms)	Attempt to close an open trade returned with error. <a href="#">More...</a>
1163	Warning	Connection - Down X times Last time...	The MT5 lost connection to the broker's server. <a href="#">More...</a>
2101	Error	Initialization failed	Initialization failed <a href="#">More...</a>
2118	Error	Service access disabled (<AccessID>, <ConfirmationID>) - shutting down...	The user quits the authentication process, or the EA is not able to authenticate the user access to the service. <a href="#">More...</a>

### 6.1.1 Message 1001

Code	Severity	Message	Description
1001	Error	Setup problem: DLL imports not allowed. Tick Allow DLL imports in Common tab of the properties window.	Configuration setting is missing to allow the EA to use dynamically loaded libraries (DLLs). Enable the load of DLLs and restart the EA. <a href="#">More...</a>

## Setup problem: DLL imports not allowed

### Issue

The EA is not able to start up when gets attached to a chart because some of its dependencies could not be loaded into memory. The EA requires some dynamically loaded libraries (DLL) to be loaded into memory from disks. When the EA configuration settings do not allow the load of DLLs then the EA cannot start up and reports this error message.

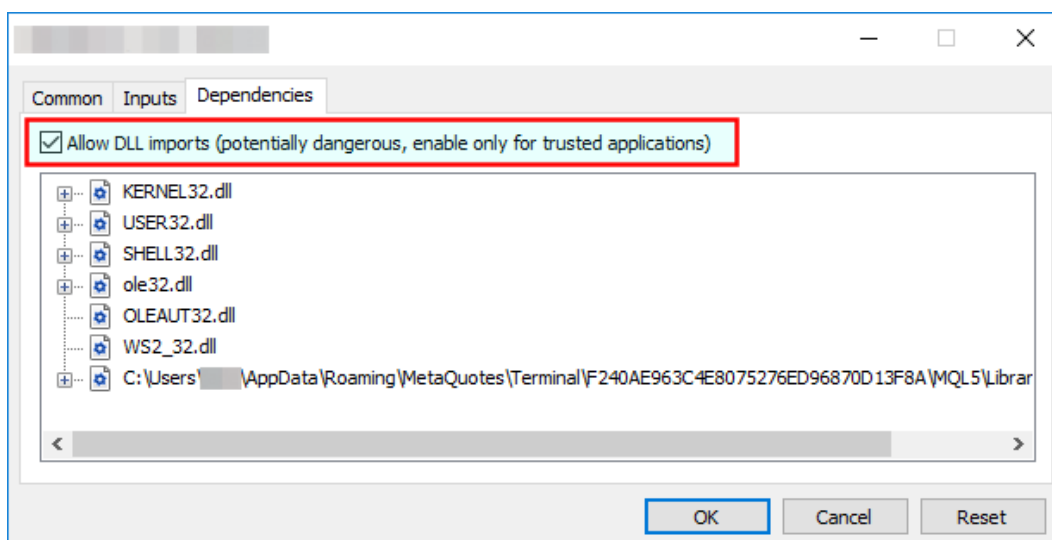
### Possible root cause

- The EA configuration does not allow for the load of DLLs.

### Resolution

Enable the load of DLLs in the EA configuration dialog.

- Attach the EA to a chart, or if already attached then select the chart and
  - In case of an EA: press F7
  - In case of an indicator: press Ctrl+I and double-click the name of the indicator in the list.
- Go to the **Dependencies** tab of the **Property** window.
- Tick the checkbox **Allow DLL imports**.
- Click **OK**.



## 6.1.2 Message 1002

Code	Severity	Message	Description
1002	Error	Incomplete EA installation: Run setup application for MT5 instance "<MT5DataPath>'s Data Folder"	Product installation is not complete or damaged. Run the setup application for the MT5 terminal instance as displayed. <a href="#">More...</a>

## Incomplete Installation

### Issue

The EA is not able to start up when gets attached to a chart because some of its dependencies could not be found on the file system.

### Possible root cause

- The EA setup application was not able to perform all its steps, not completed in full.
- The product was installed manually and some of the steps were missed.
- The MT5 instance's file system got damaged, some files got corrupted or deleted.

### Resolution

Download the EA setup application and execute it to get the product installed for the MT5 instance:

1. Download the setup application from [Web Support Centre](#).
2. Execute the setup application to get the product installed. For installation guide refer to any of the following:
  - [Getting Started with the Wave ForexLiberator EA](#)
  - [Step-by-step Installation of EAs and Indicators](#)

## 6.1.3 Message 1006

Code	Severity	Message	Description
1006	Error	MT5 Expert Advisors are disabled: click AutoTrading icon on MT5 toolbar to execute the EA.	EA does not perform its operations, not monitoring nor reacting to price movements of the market. <a href="#">More...</a>

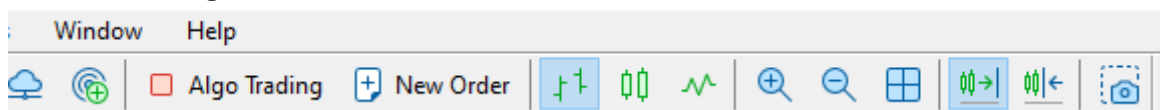
## EA AutoTrading Disabled

### Issue

The EA is not responding to price movements, not performing its logic upon data ticks coming in from the broker. The MT5 toolbar button **AutoTrading** is disabled.

### Possible root cause

- The **AutoTrading** button on the MT5 toolbar is disabled.



### Resolution

Press the **AutoTrading** button on the MT5 toolbar.



## 6.1.4 Message 1007

Code	Severity	Message	Description
1007	Error	Live trading is not allowed (🎓 sign): press F7 and tick Allow live trading box on Common tab.	The EA is unable to perform trading operations, there is a 🎓 sign in the top right corner of the chart. <a href="#">More...</a>

## Live Trading Not Allowed

### Issue

The EA is unable to perform trading operations, there is a 🎓 sign in the top right corner of the chart.

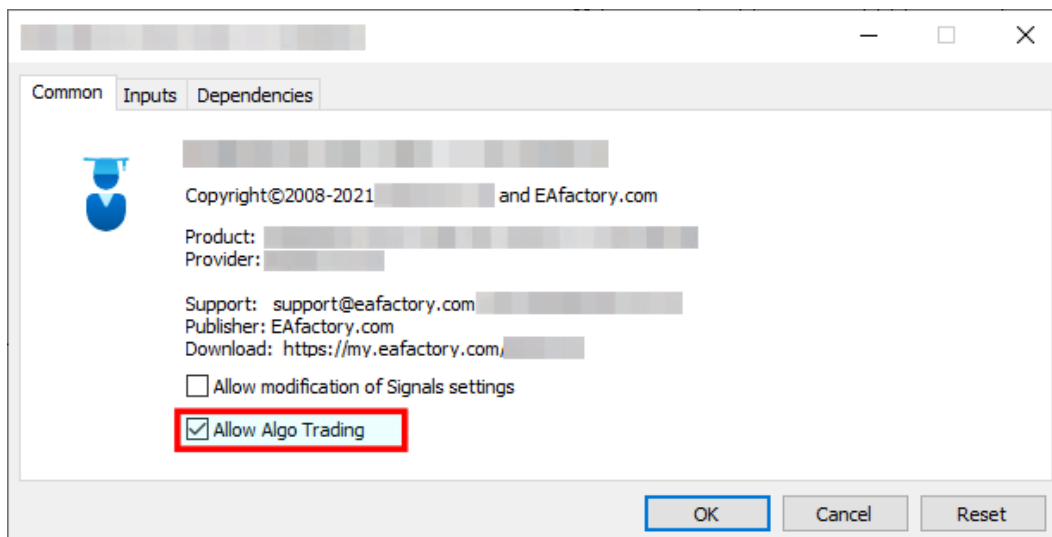
### Possible root cause

- The **Allow live trading** checkbox is not ticked at the EA properties window.

### Resolution

Enable live trading in the EA properties window.

- Go to the chart and press F7.
- Go to the **Common** tab of the Expert properties window.
- Tick the checkbox **Allow live trading**.
- Click **OK**



## 6.1.5 Message 1008

Code	Severity	Message	ToDo
1008	Error	Authentication failed or interrupted (<Stopped>, <Status>, <Response>, <Reason>, <FlipOverCount>, <Latency>)	The EA is not able to authenticate the user access to the service at its start up time. <a href="#">More...</a>

## Failed Authentication

### Issue

The EA is not able to authenticate the user access to the service at attach or restart time and does not start up.

### Possible root cause

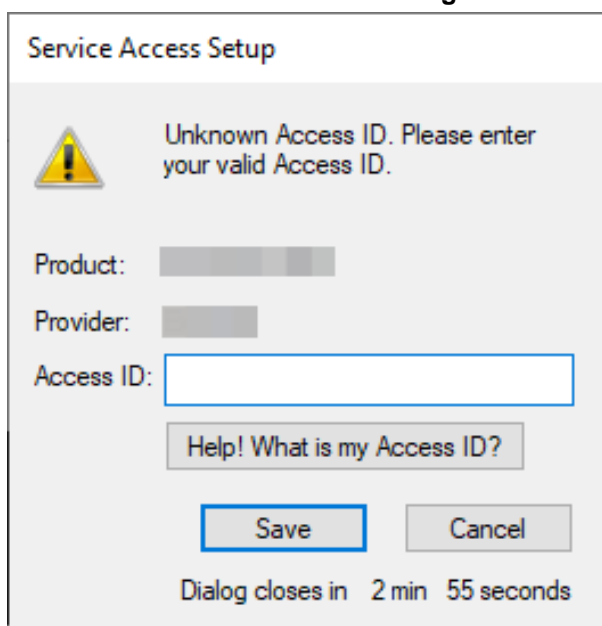
- The EA could not connect to the authentication server.

- The user quit the authentication process.
- There is a typo in the **Access ID** entered by the user.
- The Wave ForexLiberator EA is not yet purchased by the user.
- The Wave ForexLiberator EA was purchased, but not yet activated by the user.
- The Wave ForexLiberator EA was purchased or a trial started, but the licensed period (e.g. calendar days) has lapsed.
- The Wave ForexLiberator EA was purchased, but the licensed usage limit (e.g. number of parallel accesses) is breached by the user.

### Resolution

Double check the following items to find resolution to the issue.

1. Ensure that the computer has working Internet connection. For example, go to the [Web Support Centre](#) and see if the page loads with no issues. When the Internet connection is working, restart the EA by pressing F7 and clicking the **OK** button of the **Expert** property window.
2. Ensure you enter the correct Access ID, case sensitive, without any typo, and click the **Save** button of the **Service Access Settings** authentication window.



3. Ensure you have purchased the product. Log in to the [Web Support Centre](#) and select the Wave ForexLiberator EA from the product list. If the product is **not** available for download then it is yet to be purchased at the [Web Support Centre](#).
4. Count the number of computers you are running the Wave ForexLiberator EA on. If it is more than what the purchased EA licence copies allow then either shut down on the excess number of the computers all the running Wave ForexLiberator instances, or purchase more licence at the [Web Support Centre](#).

## 6.1.6 Message 1121

Code	Severity	Message	Description
1121	Error	Order close failed at bid <Bid> for #<TicketNo> <TicketType> cmnt:<TicketComment> (<AttemptNo>, <TicketCount>/<TotalTicketCount>, <Latency>ms)	Attempt to close an open trade returned with error. <a href="#">More...</a>

### Attempt to Close an Open Trade Failed

#### Issue

The EA requested to close an open trade but it returned back with error. The operation may or may not have closed out the open trade.

#### Possible root cause

- The trade got closed off in the meantime by the broker server due to reaching its take profit or stop loss limits.
- The trade got closed off by another EA.
- The trade got closed off manually.
- The price quote changed slipping the close order outside of allowed range.
- The MT5 terminal lost its connection to the broker server.

#### Resolution

Typically this issue is temporary and the EA recovers from this issue automatically over the subsequent incoming data feed ticks. When this issue is reported only a few times there is no need for further attention. In order to double check that the trade got eventually closed off follow these steps:

1. Take a note of the ticket number reported by the message something like as #12345678.
2. Go to the **History** tab of the **Toolbox** window (press Ctrl+T).
3. Search for the ticket number noted above, in the column **Order**.

If the ticket is found in the **History** tab then it got closed off subsequently with success, and no further action is needed.

In the case of connection problems, refer to the Knowledgebase topic [No Updates to Chart](#) for resolution.

#### Related information

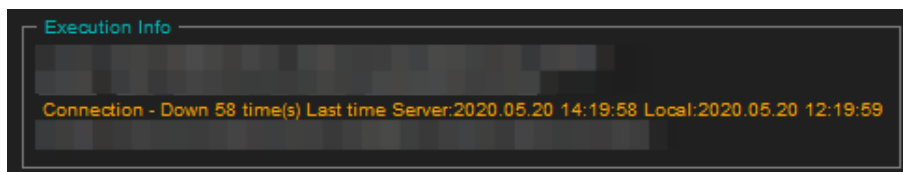
[No Updates to Chart](#) on page 72

## 6.1.7 Message 1163

Code	Severity	Message	Description
1163	Warning	Connection - Down X times Last time...	The MT5 lost connection to the broker's server. <a href="#">More...</a>

### Issue

The Wave ForexLiberator EA got attached to a chart and the EA is up and running. The EA monitors the connection between the MT5 terminal and the broker server. When the MT5 loses connection to the broker server then the EA presents this Connection Down message in its dashboard - see the orange message as an example:



In the above screenshot the last connection issue happened at 14:19 broker server time (chart time).

This means that somewhere along the Internet connection path from your computer to the broker server, including your home networks, the Internet and your brokers remote networks, there was some temporary issue resulting in data transfer interruption.

During this time the Wave ForexLiberator EA cannot receive price feed from the broker, i.e. no ticks are coming in. This also means that, due to the lack of price feed and ticks, the EA is not activated and cannot perform trading or managing open trades. When the MT5 re-establishes the connection to the broker server and price feed comes in again then the EA automatically resumes its trading operations.

### Resolution

In order to minimize the downtime, please ensure the following:

1. Your computer is connected to your home networks over a wire, i.e. cabled to your modem or router. Note that wireless connectivity is more prone to connection issues.
2. Use a cable based Internet service provider, if feasible. Wireless based Internet service providers, like mobile or cellular based Internet providers could have more connectivity issues.
3. [Turn off the sleep or hibernation mode](#) on your computer. When your computer goes into sleep or hibernation the Internet connection would be lost.
4. If in doubt, restart your home networks: shutdown your computer, turn off your modem or router, wait 10 seconds then turn back on the modem/router then your computer.

**Note:** Even the best Internet connection could see a handful of connection issues on a daily basis. When you see more than a handful, like into 100 or more a day then your attention is needed.

#### Related information

[No Updates to Chart](#) on page 72

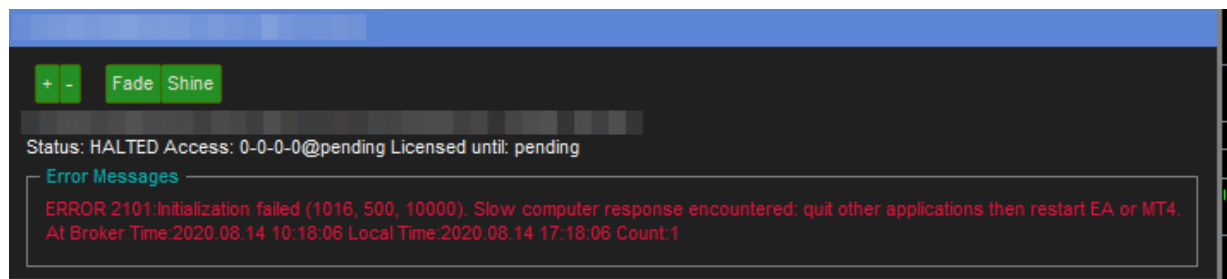
## 6.1.8 Message 2101

Code	Severity	Message	Description
2101	Error	Initialization failed	Initialization failed <a href="#">More...</a>

### Initialization failed

#### Issue

The EA dashboard shows that Initialization failed.



#### Possible root cause

- Your computer slowed down for some reason, and the EA could not start up in a timely manner.
- The EA shut down itself in order to reduce the load on your computer, and allow you to gain back responsiveness of the computer, so you can free up some resources.

#### Resolution

Sometimes this can be associated with heavy swap usage by the operating system, which could be caused by RAM shortage, or cycles of hibernation (close the lid of the laptop). The best way to clean this up is to simply to reboot your computer: exit the MT5, shut your computer down and boot it up again. Do not start up any other application just the MT5 and see if the EA can start up now, after the reboot.

## 6.1.9 Message 2118

Code	Severity	Message	ToDo
2118	Error	Service access disabled (<AccessID>, <ConfirmationID>) - shutting down...	The user quits the authentication process, or the EA is not able to authenticate the user access to the service. <a href="#">More...</a>

### Aborted Authentication

#### Issue

The EA is not able to authenticate the user access to the service at attach or restart time and does not start up.

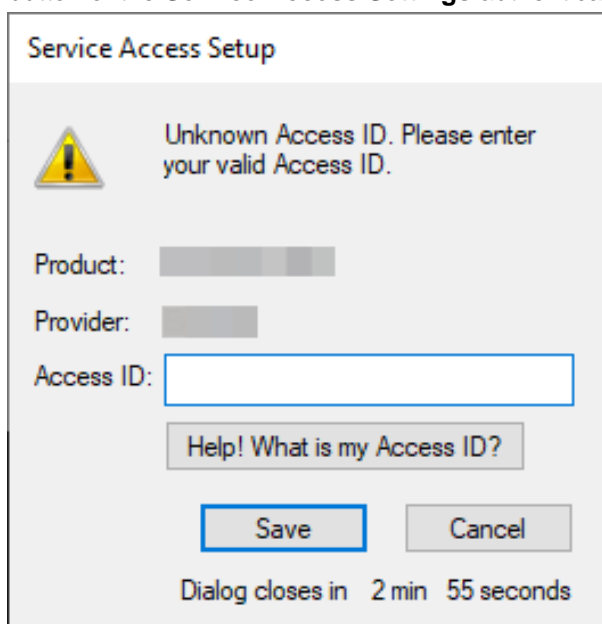
#### Possible root cause

- The user quit the authentication process.
- The EA could not connect to the authentication server.
- There is a typo in the **Access ID** entered by the user.
- The Wave ForexLiberator EA is not yet purchased by the user.
- The Wave ForexLiberator EA was purchased, but not yet activated by the user.
- The Wave ForexLiberator EA was purchased or a trial started, but the licensed period (e.g. calendar days) has elapsed.
- The Wave ForexLiberator EA was purchased, but the licensed usage limit (e.g. number of parallel accesses) is breached by the user.

#### Resolution

Double check the following items to find resolution to the issue.

1. Ensure that the computer has working Internet connection. For example, go to the [Web Support Centre](#) and see if the page loads with no issues. When the Internet connection is working, restart the EA by pressing F7 and clicking the **OK** button of the **Expert** property window.
2. Ensure you enter the correct Access ID, case sensitive, without any typo, and click the **Save** button of the **Service Access Settings** authentication window.



3. Ensure you have purchased the product. Log in to the [Web Support Centre](#) and select the Wave ForexLiberator EA from the product list. If the product is **not** available for download then it is yet to be purchased at the [Web Support Centre](#).



4. Count the number of computers you are running the Wave ForexLiberator EA on. If it is more than what the purchased EA licence copies allow then either shut down on the excess number of the computers all the running Wave ForexLiberator instances, or purchase more licence at the [Web Support Centre](#).

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# Chapter 7

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## Support

Please contact [support@eafactory.com](mailto:support@eafactory.com) if you require any further assistance. Please copy [info@expert4x.com](mailto:info@expert4x.com) on your email.

# Index

## Numerics

- 1001
  - Message [105](#)
- 1002
  - Message [106](#)
- 1006
  - Message [107](#)
- 1007
  - Message [107](#)
- 1008
  - Message [108](#)
- 1121
  - Message [109](#)
- 1163
  - Message [110](#)
- 2101
  - Message [111](#)
- 2118
  - Message [112](#)

## A

- Access ID
  - Knowledgebase [73](#)
- Account Type Requirements
  - System Requirements [15](#)
- Activation
  - Access ID [9](#), [61](#), [65](#)
  - Attach [9](#), [61](#), [65](#)
  - First Time Activation [9](#), [61](#), [65](#)
  - MT5 Common Tab [9](#), [61](#), [65](#)
  - MT5 Inputs Tab [9](#), [61](#), [65](#)
  - Service Access Settings [9](#), [61](#), [65](#)
- Algo Trading Disabled
  - EA Not Starting Up [69](#)
- Allow buy & Sell the Same Pair at the Same Time
  - Parameters [25](#)
- Allow Buy & Sell the Same Pair at the Same Time
  - Parameters [24](#), [24](#)
- Allow DLL Imports
  - Backtest [77](#), [79](#)
- AutoTrading Disabled
  - EA Not Starting Up [69](#), [71](#)

## B

- Backtest
  - Allow DLL Imports [77](#), [79](#)
  - No Result [76](#), [77](#), [79](#)
  - No Trades [79](#)
- BASKET OF TRADES MANAGEMENT
  - Parameters [25](#)
- Broker GMT Offset
  - Knowledgebase [70](#)
- BUY:Approx. Closeout Price Level Colour
  - Parameters [34](#), [35](#)

## C

- Clean up after the download in the Internet Explorer
  - Download [95](#)
  - Knowledgebase [95](#)
- Closeout Summary Text Colour
  - Parameters [34](#), [34](#)
- Closeout Text Display
  - Parameters [34](#), [34](#)
- Combined Profit & Risk Settings
  - parameters [37](#)
- Computer Always-on
  - Knowledgebase [78](#)
- Configuration
  - Configuration Principles [16](#)
  - Operation Principles [16](#)
- Configuration Principles
  - Configuration [16](#)
- Connection Down Message
  - Knowledgebase [77](#)
- Copyright Notices
  - Copyright Notices [5](#)

## D

- Direction of Initial Trade Entry
  - Parameters [17](#), [17](#)
- DLL Imports Not Allowed
  - Knowledgebase [76](#)
  - Visual Mode [76](#)
- Download
  - Clean up after the download in the Internet Explorer [95](#)
  - How to enable Download in your Internet Explorer [92](#), [100](#)
  - How to enable JavaScript in your Internet Explorer [90](#), [98](#)
  - VPS [86](#)

## E

- EA Non-standard Installation
  - Knowledgebase [84](#)
- EA Not Starting Up
  - Algo Trading Disabled [69](#)
  - AutoTrading Disabled [69](#), [71](#)
- EA Standard Installation
  - Knowledgebase [82](#)
- ECN/STP Broker Accounts
  - System Requirements [15](#)
- Entry Window From Hour/Minute
  - Parameters [33](#)
- Entry Window Until Hour/Minute
  - Parameters [33](#)
- Example - Balanced Amount Pruning
  - Parameters [54](#)
- Example - Closure at Pips Profit
  - Parameters [53](#)
- Example - Closure at Portfolio Loss
  - Parameters [54](#)

Example - Closure at Portfolio Profit  
Parameters [53](#)

Example - Closure at Profit Amount  
Parameters [53](#)

Example - Entry with TP and Hidden TP  
Parameters [40](#)

Example - Entry with TP Only  
Parameters [40](#)

Example - Entry with TP, Hidden TP and Trailing  
Parameters [41](#)

Example - FIFO Trading  
Parameters [55](#)

Example - First & Last Trades Pruning  
Parameters [54](#)

Example - Gap Pruning  
Parameters [55](#)

Example - Initial Lots Adjustment Up & Down  
Parameters [45](#)

Example - Initial Lots Adjustment Upward Only  
Parameters [45](#)

Example - Normal Entry  
Parameters [39](#)

Example - Reverse Entry  
Parameters [40](#)

Example - Same Initial Lots All the Time  
Parameters [45](#)

Example - Same Position Size All the Time  
Parameters [46](#)

Example - Scale Lots Down by Amount  
Parameters [49](#)

Example - Scale Lots Down by Multiplier  
Parameters [47](#)

Example - Scale Lots Up by Amount  
Parameters [48](#)

Example - Scale Lots Up by Multiplier  
Parameters [47](#)

Example - Scale Price Gap Down by Rate  
Parameters [44](#)

Example - Scale Price Gap Up by Rate  
Parameters [43](#)

Example - Skip Topup and Scale Up by Amount  
Parameters [51](#)

Example - Skip Topup and Scale Up by Multiplier  
Parameters [50](#)

Example - Skip Topups and Scale Down by Amount  
Parameters [52](#)

Example - Skip Topups and Scale Down by Multiplier  
Parameters [50](#)

Example - Stop Trading After Portfolio Closure  
Parameters [54](#)

Example - Stop Trading of Certain Pairs  
Parameters [43](#)

Example - Trade Max 1 Pair Involving the Same Currency  
Parameters [42](#)

Example - Trade Not More Than 2 Out of Multiple Markets  
Parameters [41](#)

## F

First Time Activation  
Activation [9](#), [61](#), [65](#)

Forex Broker Requirements  
System Requirements [14](#)

Friday Trade Entry  
Parameters [33](#)

## G

Gap Pruning From This Scale of Initial Gap  
Parameters [29](#), [30](#)

Gap Scaling Rate  
Parameters [17](#), [18](#)

Gap Scaling Start Level  
Parameters [17](#), [18](#)

GMT Offset Of Broker  
Parameters [32](#)

Gray Sign  
Knowledgebase [69](#)

## H

Hardware Requirements  
System Requirements [14](#)

HEDGE TRADES MANAGEMENT  
Parameters [24](#)

Hedging Support Requirements  
Hedging Mode [14](#), [15](#)  
Netting Mode [14](#), [15](#)  
System Requirements [14](#)

How to download an EA setup in VPS environment  
Knowledgebase [86](#)

How to Download MT5  
Knowledgebase [57](#)

How to Download the Setup Application from the Web  
Support Centre  
Knowledgebase [57](#)

How to Edit the EA Input Values  
Knowledgebase [74](#)

How to enable Download in your Internet Explorer  
Downloadn [92](#), [100](#)  
Knowledgebase [92](#), [100](#)

How to enable JavaScript in your Internet Explorer  
Downloadn [90](#), [98](#)  
Knowledgebase [90](#), [98](#)

How to Upgrade the EA  
Knowledgebase [60](#)

## I

Indicator Non-standard Installation  
Knowledgebase [84](#)

Indicator Standard Installation  
Knowledgebase [82](#)

Initial Lots Adjustment: Base Account Equity Amount  
Parameters [21](#)

Initial Lots Adjustment: Initial Lots Adjustment  
Parameters [22](#)

Initial Lots Adjustment: Required Equity Change  
Parameters [21](#)

Initial Lots Adjustment: Base Account Equity Amount  
Parameters [17](#)

Initial Lots Adjustment: Initial Lots Adjustment  
Parameters [17](#)

Initial Lots Adjustment: Required Equity Change  
Parameters [17](#)

INITIAL TRADE MANAGEMENT  
Parameters [22](#)

Initial Trade Trailing Stop

Parameters [23](#)

Initial: Hidden TP

Parameters [22](#), [23](#)

Initial: Stop Loss

Parameters [22](#)

Initial: Take Profit

Parameters [22](#), [22](#)

Install

Non-standard Installation [84](#)

Standard Installation [82](#)

Wave ForexLiberator EA [6](#), [58](#)

## K

Knowledgebase

Access ID [73](#)

Broker GMT Offset [70](#)

Clean up after the download in the Internet Explorer [95](#)

Computer Always-on [78](#)

Connection Down Message [77](#)

DLL Imports Not Allowed [76](#)

EA Non-standard Installation [84](#)

EA Not Starting Up [71](#)

EA Standard Installation [82](#)

Gray Sign [69](#)

How to download an EA setup in VPS environment [86](#)

How to Download MT5 [57](#)

How to Download the Setup Application from the Web Support Centre [57](#)

How to Edit the EA Input Values [74](#)

How to enable Download in your Internet Explorer [92](#), [100](#)

How to enable JavaScript in your Internet Explorer [90](#), [98](#)

How to Upgrade the EA [60](#)

Indicator Non-standard Installation [84](#)

Indicator Standard Installation [82](#)

No Trades [75](#), [77](#), [80](#)

No Trades Due to Trade Disabled [75](#)

No Updates to Chart [72](#)

Not Enough Memory For Bar History Or Indicator [74](#)

Sadface [72](#), [78](#)

Step-by-step Installation Guide [81](#)

Visual Mode Checkbox Missing in Strategy Tester [80](#)

What is My Account Leverage [70](#)

## L

Look Back Bars

Parameters [17](#), [17](#)

Lots for Initial Trade Entry

Parameters [17](#), [19](#)

## M

Magic Number

Parameters [34](#), [39](#)

Maximum Currency Exposure

Parameters [25](#), [28](#)

Maximum Topup Trades per Market per Direction

Parameters [25](#)

Maximum Topup Trades per Pair per Direction

Parameters [28](#)

Maximum Traded Markets

Parameters [25](#)

Maximum Traded Pairs

Parameters [28](#)

Message [104](#), [104](#), [105](#), [105](#)

1001 [105](#)

1002 [106](#)

1006 [107](#)

1007 [107](#)

1008 [108](#)

1121 [109](#)

1163 [110](#)

2101 [111](#)

2118 [112](#)

MetaTrader (MT5) Requirements and Settings

System Requirements [14](#)

Minimum Gap Size

Parameters [17](#), [19](#)

Minimum Lot Size Requirements

System Requirements [15](#)

MISCELLANEOUS

Parameters [34](#)

Monday ... Sunday Trade Entry

Parameters [33](#), [33](#)

Monday Trade Entry

Parameters [33](#)

## N

No Trades

Knowledgebase [77](#)

No Trades Due to Trade Disabled

Knowledgebase [75](#)

No Trades Since

Knowledgebase [75](#), [80](#)

No Updates to Chart

Knowledgebase [72](#)

Non-FIFO Support Requirements

System Requirements [15](#)

Not Enough Memory For Bar History Or Indicator

Knowledgebase [74](#)

## O

Operating System Requirements

System Requirements [14](#)

Operation Principles

Configuration [16](#)

## P

Pair Name Prefix & Suffix

Parameters [34](#), [36](#)

Pair: Target Closure \$ Amount

Parameters [25](#), [25](#)

Pair: Target Profit Pips Closure

Parameters [25](#), [26](#)

Pairs to Get Out

Parameters [25](#), [27](#)

Pairs to Trade

Parameters [25](#), [27](#)

## parameters

Combined Profit & Risk Settings [37](#)Tick Scaling for CFD Markets [37](#)

## Parameters

Allow buy & Sell the Same Pair at the Same Time [25](#)Allow Buy & Sell the Same Pair at the Same Time [24](#), [24](#)BASKET OF TRADES MANAGEMENT [25](#)BUY:Approx. Closeout Price Level Colour [34](#), [35](#)Closeout Summary Text Colour [34](#), [34](#)Closeout Text Display [34](#), [34](#)Direction of Initial Trade Entry [17](#), [17](#)Entry Window From Hour/Minute [33](#)Entry Window Until Hour/Minute [33](#)Example - Balanced Amount Pruning [54](#)Example - Closure at Pips Profit [53](#)Example - Closure at Portfolio Loss [54](#)Example - Closure at Portfolio Profit [53](#)Example - Closure at Profit Amount [53](#)Example - Entry with TP and Hidden TP [40](#)Example - Entry with TP Only [40](#)Example - Entry with TP, Hidden TP and Trailing [41](#)Example - FIFO Trading [55](#)Example - First & Last Trades Pruning [54](#)Example - Gap Pruning [55](#)Example - Initial Lots Adjustment Up & Down [45](#)Example - Initial Lots Adjustment Upward Only [45](#)Example - Normal Entry [39](#)Example - Reverse Entry [40](#)Example - Same Initial Lots All the Time [45](#)Example - Same Position Size All the Time [46](#)Example - Scale Lots Down by Amount [49](#)Example - Scale Lots Down by Multiplier [47](#)Example - Scale Lots Up by Amount [48](#)Example - Scale Lots Up by Multiplier [47](#)Example - Scale Price Gap Down by Rate [44](#)Example - Scale Price Gap Up by Rate [43](#)Example - Skip Topup and Scale Up by Amount [51](#)Example - Skip Topup and Scale Up by Multiplier [50](#)Example - Skip Topups and Scale Down by Amount [52](#)Example - Skip Topups and Scale Down by Multiplier [50](#)Example - Stop Trading After Portfolio Closure [54](#)Example - Stop Trading of Certain Pairs [43](#)Example - Trade Max 1 Pair Involving the Same Currency [42](#)Example - Trade Not More Than 2 Out of Multiple Markets [41](#)Friday Trade Entry [33](#)Gap Pruning From This Scale of Initial Gap [29](#), [30](#)Gap Scaling Rate [17](#), [18](#)Gap Scaling Start Level [17](#), [18](#)GMT Offset Of Broker [32](#)HEDGE TRADES MANAGEMENT [24](#)Initial Lots Adjustment: Base Account Equity Amount [21](#)Initial Lots Adjustment: Initial Lots Adjustment [22](#)Initial Lots Adjustment: Required Equity Change [21](#)Initial Lots Adjustment: Base Account Equity Amount [17](#)Initial Lots Adjustment: Initial Lots Adjustment [17](#)Initial Lots Adjustment: Required Equity Change [17](#)INITIAL TRADE MANAGEMENT [22](#)Initial Trade Trailing Stop [23](#)Initial: Hidden TP [22](#), [23](#)Initial: Stop Loss [22](#)Initial: Take Profit [22](#), [22](#)Look Back Bars [17](#), [17](#)Lots for Initial Trade Entry [17](#), [19](#)Magic Number [34](#), [39](#)Maximum Currency Exposure [25](#), [28](#)Maximum Topup Trades per Market per Direction [25](#)Maximum Topup Trades per Pair per Direction [28](#)Maximum Traded Markets [25](#)Maximum Traded Pairs [28](#)Minimum Gap Size [17](#), [19](#)MISCELLANEOUS [34](#)Monday ... Sunday Trade Entry [33](#), [33](#)Monday Trade Entry [33](#)Pair Name Prefix & Suffix [34](#), [36](#)Pair: Target Closure \$ Amount [25](#), [25](#)Pair: Target Profit Pips Closure [25](#), [26](#)Pairs to Get Out [25](#), [27](#)Pairs to Trade [25](#), [27](#)Portfolio: Closure at Maximum Loss \$ Amount [25](#), [26](#)Portfolio: Closure at Profit \$ Amount [25](#), [26](#)Portfolio: Reentry After Closure [25](#), [26](#)Price Gap [17](#), [18](#)PRUNING OF TRADES [29](#)Reference Time Selection [31](#), [31](#)Saturday Trade Entry [33](#)SELL:Approx. Closeout Price Level Colour [34](#), [35](#)Start Pruning at Trade Count in a Pair Direction [29](#), [29](#)Sunday Trade Entry [33](#)Thursday Trade Entry [33](#)Tick Scaling for CFD Markets [34](#)TIME OF DAY FOR INITIAL ENTRY [31](#)Topup Lots Change by Lots [17](#), [20](#)Topup Lots Multiplier [17](#), [19](#)Topup TP Mode [25](#), [28](#)Topup Trades to Skip, Count [17](#), [21](#)TRADE ENTRY [17](#)Trade Pair Pruning Approach [29](#), [29](#)Trailing SL [22](#), [23](#), [23](#)Trailing Start at Profit [22](#), [23](#), [23](#)Trailing Stepping [22](#), [23](#), [24](#)Tuesday Trade Entry [33](#)Wednesday Trade Entry [33](#)

Portfolio: Closure at Maximum Loss \$ Amount

Parameters [25](#), [26](#)

Portfolio: Closure at Profit \$ Amount

Parameters [25](#), [26](#)

Portfolio: Reentry After Closure

Parameters [25](#), [26](#)

Price Gap

Parameters [17](#), [18](#)

PRUNING OF TRADES

Parameters [29](#)

## R

Reference Time Selection

Parameters [31](#), [31](#)

**S**

- Sadface
  - Knowledgebase [72, 78](#)
- Saturday Trade Entry
  - Parameters [33](#)
- SELL:Approx. Closeout Price Level Colour
  - Parameters [34, 35](#)
- Start Pruning at Trade Count in a Pair Direction
  - Parameters [29, 29](#)
- Step-by-step Installation Guide
  - Knowledgebase [81](#)
- Sunday Trade Entry
  - Parameters [33](#)
- Support
  - Support [114](#)
- System Requirements
  - Account Type Requirements [15](#)
  - ECN/STP Broker Accounts [15](#)
  - Forex Broker Requirements [14](#)
  - Hardware Requirements [14](#)
  - Hedging Support Requirements [14](#)
  - MetaTrader (MT5) Requirements and Settings [14](#)
  - Minimum Lot Size Requirements [15](#)
  - Non-FIFO Support Requirements [15](#)
  - Operating System Requirements [14](#)

**T**

- Thursday Trade Entry
  - Parameters [33](#)
- Tick Scaling for CFD Markets
  - parameters [37](#)
  - Parameters [34](#)
- TIME OF DAY FOR INITIAL ENTRY
  - Parameters [31](#)
- Topup Lots Change by Lots
  - Parameters [17, 20](#)
- Topup Lots Multiplier
  - Parameters [17, 19](#)
- Topup TP Mode
  - Parameters [25, 28](#)
- Topup Trades to Skip, Count
  - Parameters [17, 21](#)
- TRADE ENTRY
  - Parameters [17](#)
- Trade Pair Pruning Approach
  - Parameters [29, 29](#)
- Trailing SL
  - Parameters [22, 23, 23](#)
- Trailing Start at Profit
  - Parameters [22, 23, 23](#)
- Trailing Stepping
  - Parameters [22, 23, 24](#)
- Tuesday Trade Entry
  - Parameters [33](#)

**V**

- Visual Mode
  - DLL Imports Not Allowed [76](#)
- Visual Mode Checkbox Missing in Strategy Tester
  - Knowledgebase [80](#)

**VPS**

- Download [86](#)

**W**

- Wave ForexLiberator EA
  - Installation [6, 58](#)
- Wednesday Trade Entry
  - Parameters [33](#)
- What is My Account Leverage
  - Knowledgebase [70](#)