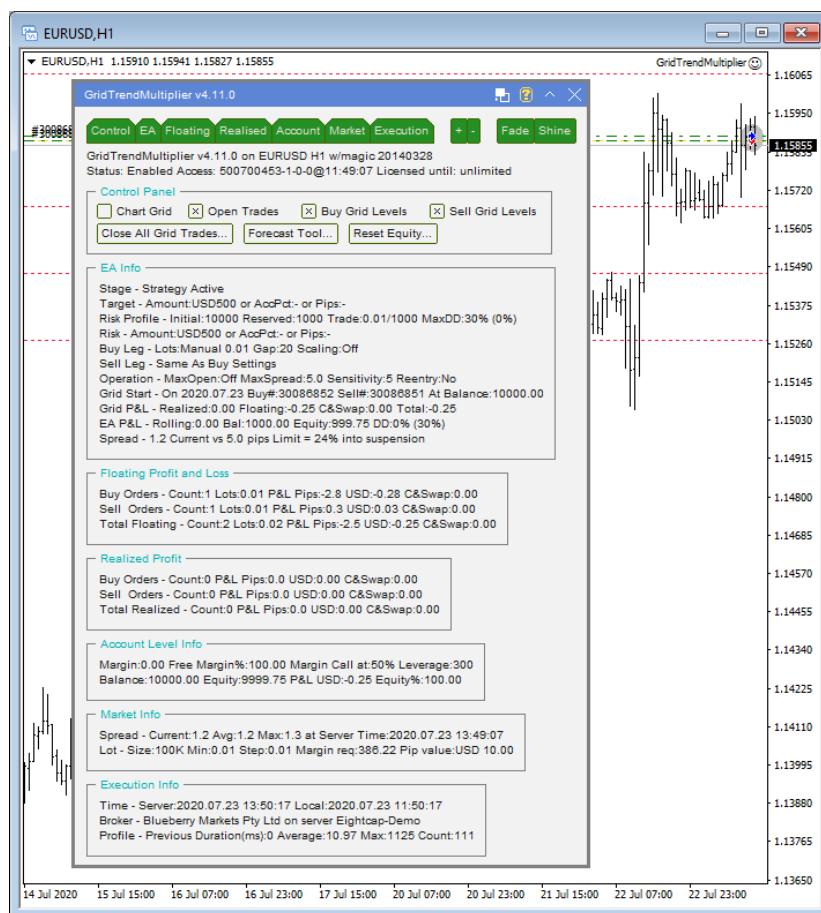


# Expert4x GridTrendMultiplier



## EA for MT5

July 23, 2020



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# Chapter

# 1

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## Copyright Notices

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# Chapter 2

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## Getting Started with the GridTrendMultiplier EA

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*Getting Started* provides a guided exploration of the GTM 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 GTM EA.

### 2.1 Installing the GridTrendMultiplier EA

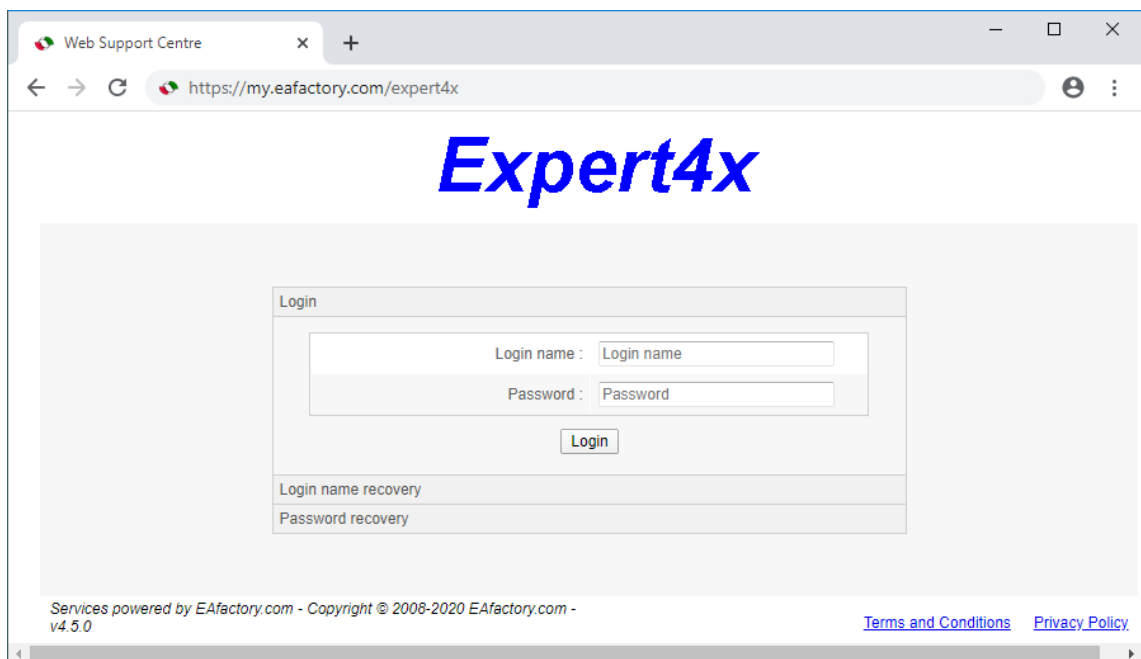
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The GTM EA comes with a setup application to provide a wizard based installation process to the selected MT5 terminal.

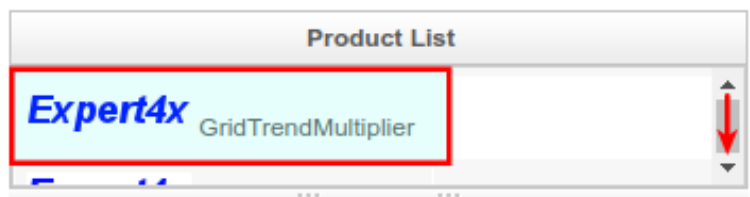
#### Before you start...

- Ensure that you have the login credentials to the Web Support Centre.
- Ensure that you have an MT5 terminal version 5.00 build 2530 or later installed.

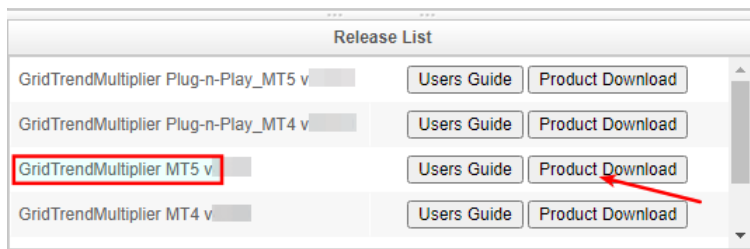
1. Exit MT5 if it was running.
2. Log in to the [Web Support Centre](https://my.eafactory.com/expert4x).



3. Scroll down and click on the GridTrendMultiplier EA in the **Product List**.

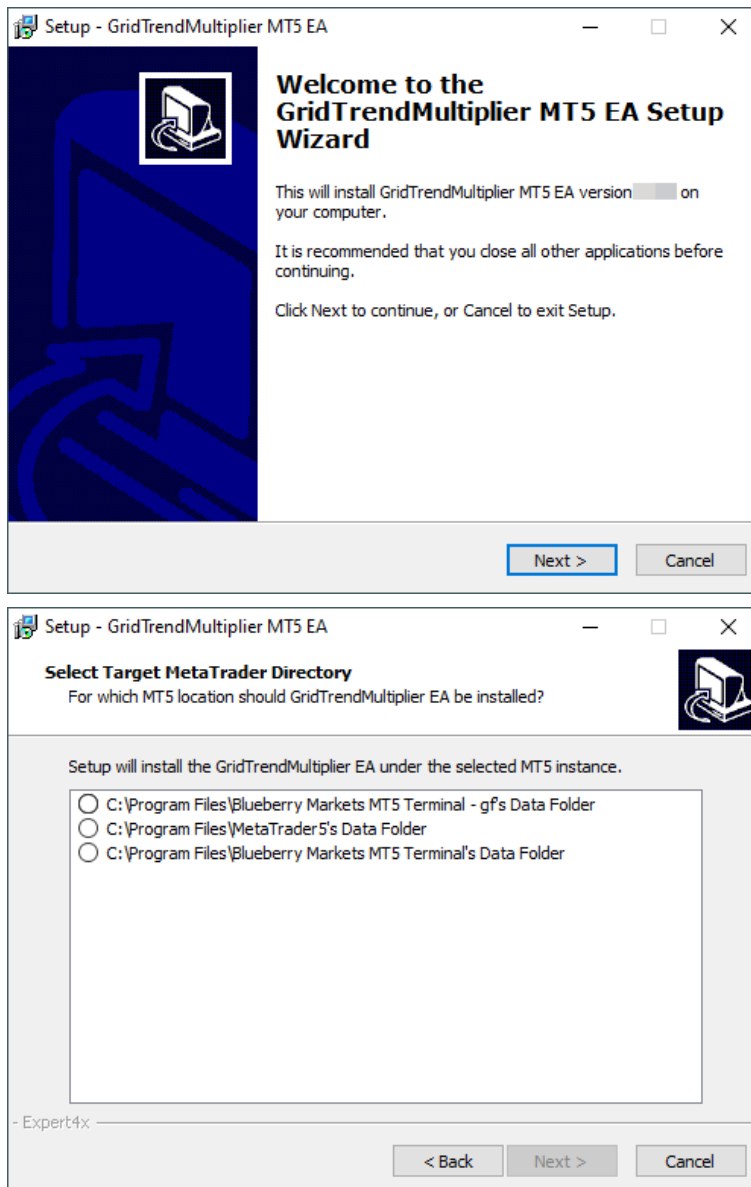


4. Click on the **Product Download** button to download the EA setup.



- Run the setup application. Select the MT5 instance during setup to where you want the service installed.
- When setup completes start up MT5. The GTM EA entry should appear under the **Expert Advisors** node in the **Navigator** window (**View > Navigator**)

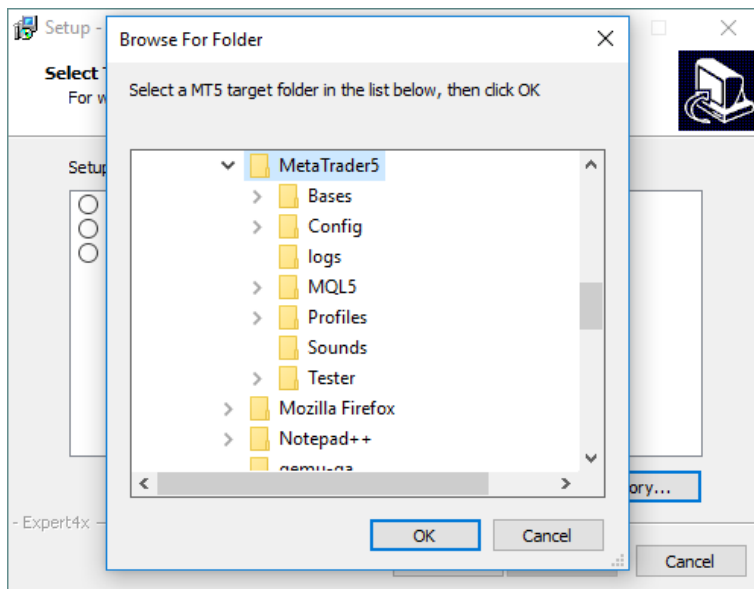
These pictures highlight the steps how to install the ea.



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

**Note:**

For some earlier version Windows version the list may not contain all the MT5 instances. In this case use the **Add target directory...** button to navigate and pick up the desired folder.

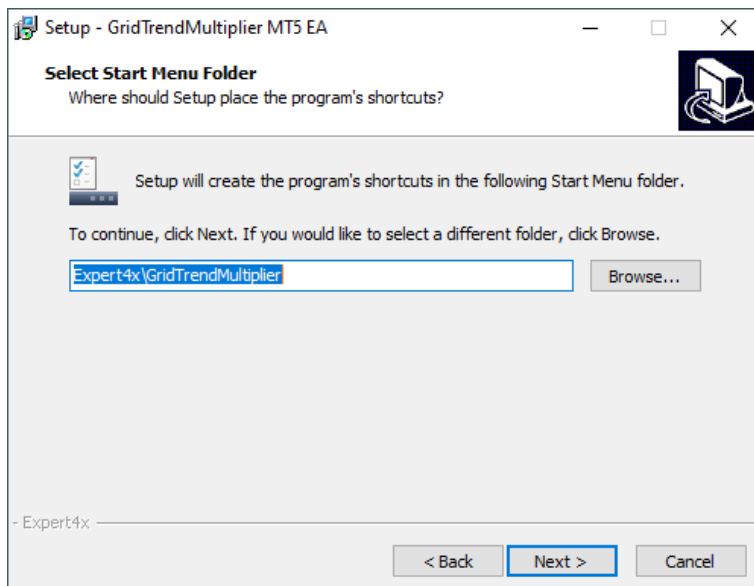


C:\Program Files\BrokerSpecificName\

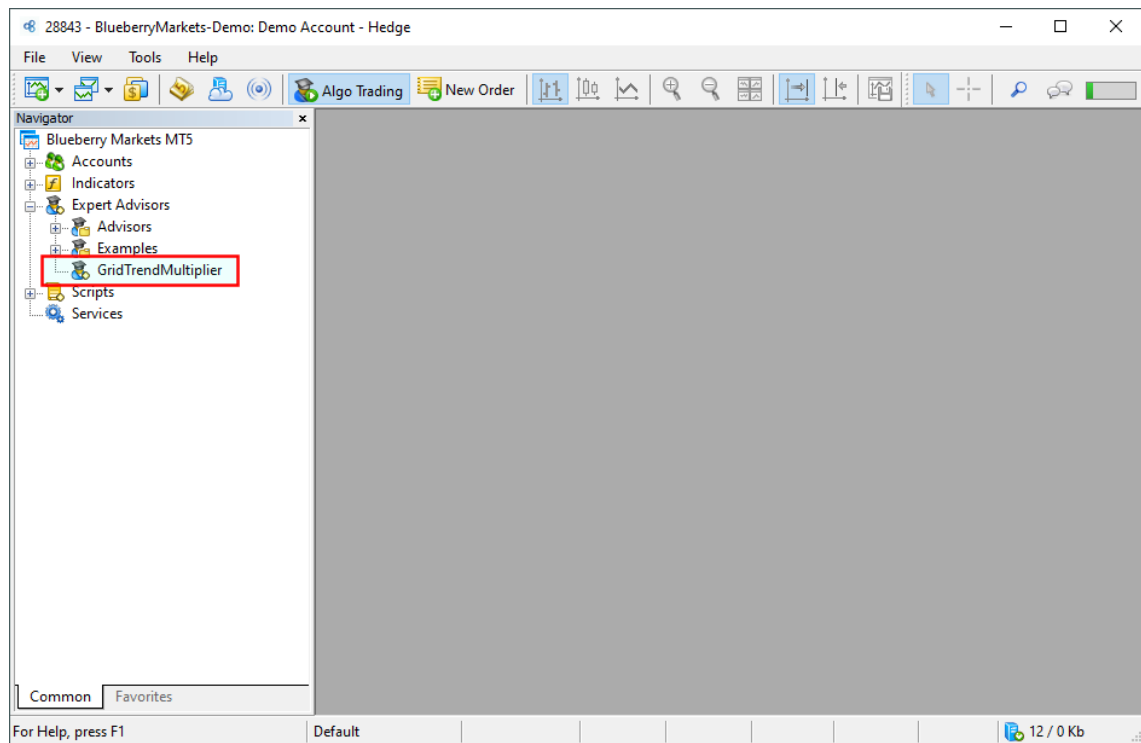
but you may have selected something else while performing the MetaTrader installation. As a hint, the following shows you the default path to the main MT5 directory for some brokers:

Broker	Default Path
Blueberry Markets broker	C:\Program Files\Blueberry Markets MT5 Terminal
ICMarkets broker	C:\Program Files\ICMarkets - MetaTrader 5
ActivTrades broker	C:\Program Files\MetaTrader 5 - ActivTrades
Admiral Markets broker	C:\Program Files\Admiral Markets MT5
Pepperstone broker	C:\Program Files\Pepperstone MetaTrader 5

Always select the main MT5 folder itself for installation target, not any of its sub-directories.



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



So everything is set up for the first activation of the GridTrendMultiplier Expert Advisor .

## 2.2 GridTrendMultiplier Expert Advisor First Time Activation

---

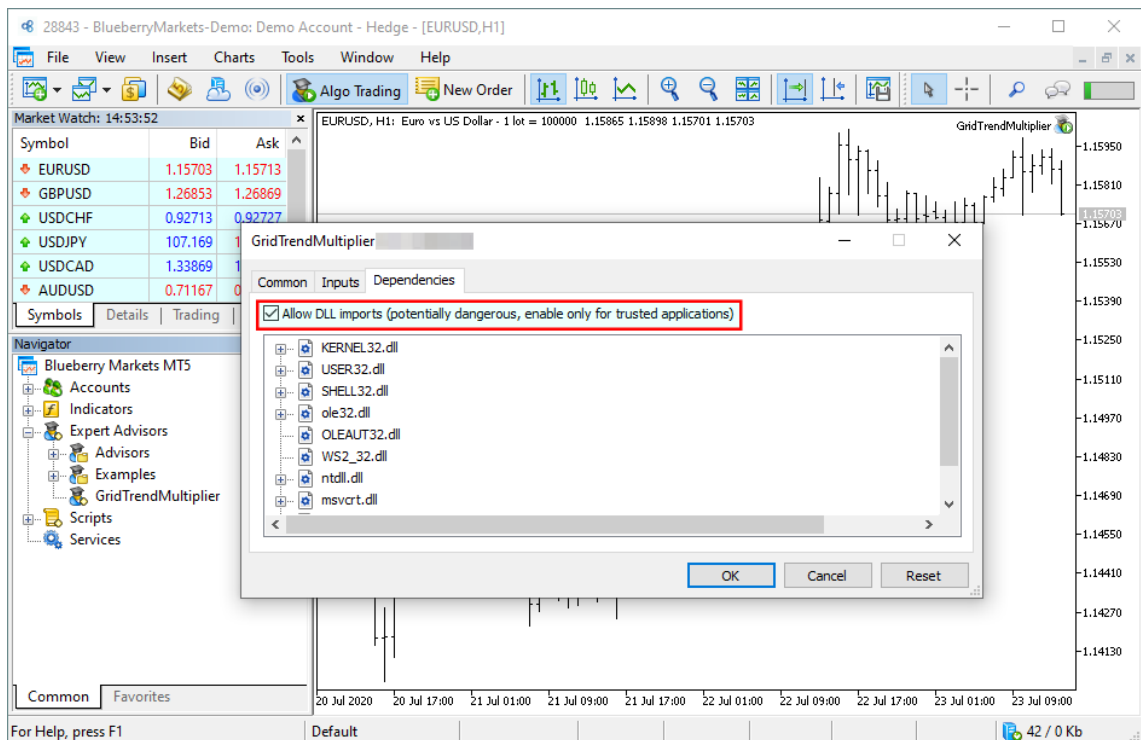
Step by step guide to get the EA up and running on a chart for the first time.

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

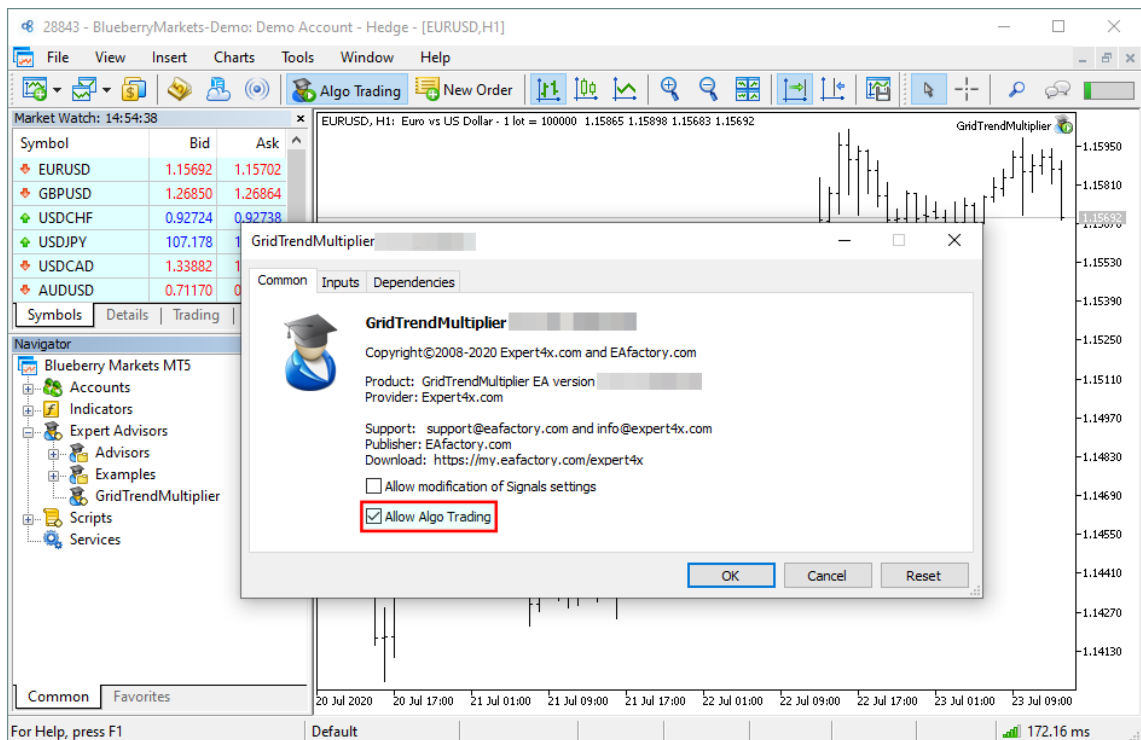
### Attach the EA to a chart

1. Drag & drop the GridTrendMultiplier 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**:



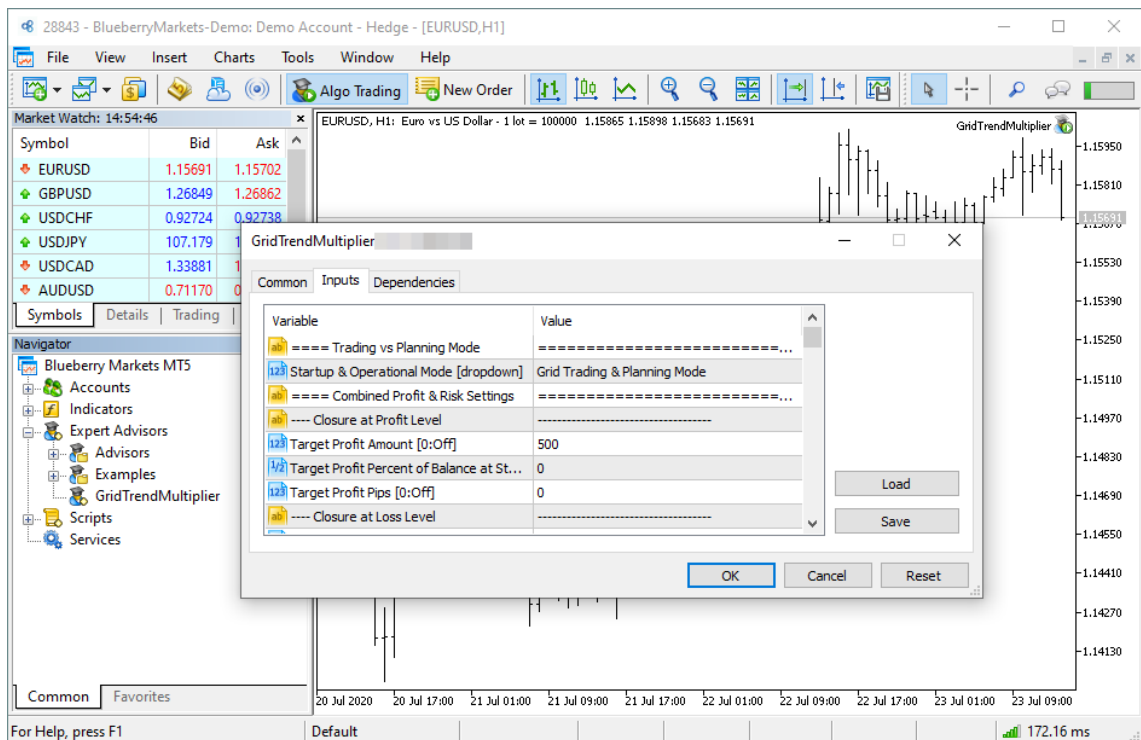
**Note:**

Ensure that the

- **Allow DLL imports** and
- **Allow Automated Trading**

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

3. Select the **Inputs** tab:

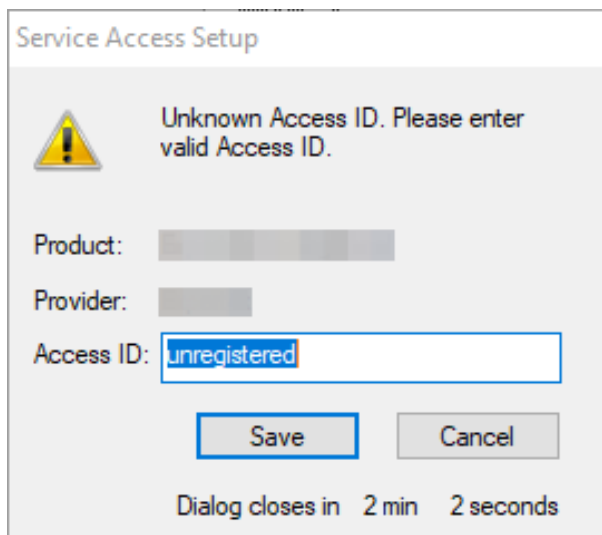


This lists the parameters of the EA where the operational aspect of the GridTrendMultiplier EA can be set up. For more details see the [GridTrendMultiplier EA Configuration Guide](#) – for now click on the **OK** button and let the EA start up with default settings.

#### Note:

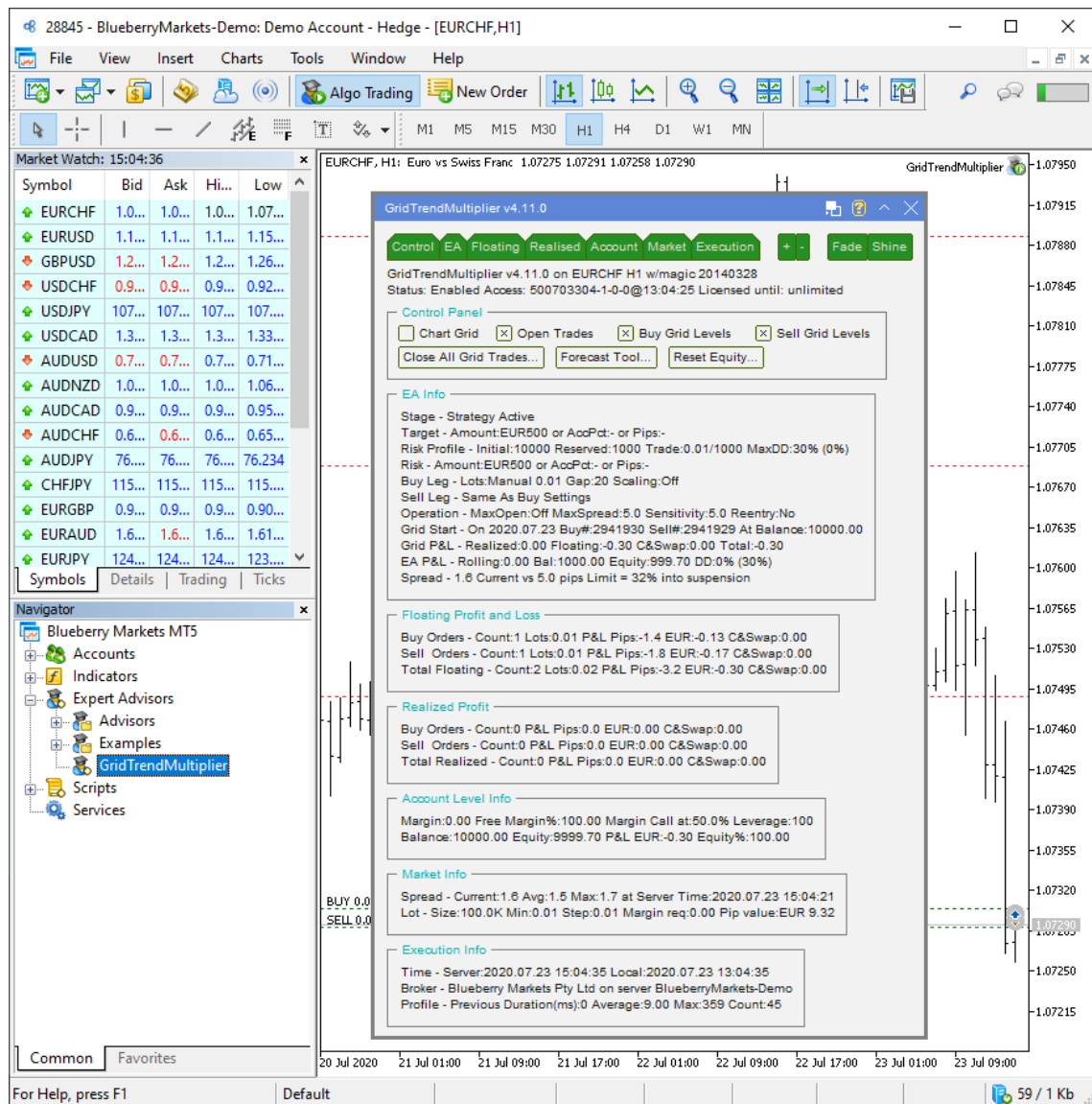
At the very first time the EA may prompt for the Access ID to verify that the usage of product is licensed.

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:



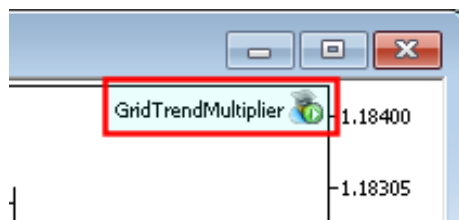
### The GridTrendMultiplier EA is up and running

After successful authentication the GridTrendMultiplier EA starts up.



The GridTrendMultiplier Expert Advisor has been attached to the chart. The smiley face in the top-right corner shows that the initialisation of the GridTrendMultiplier 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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### 3.1 Operating System Requirements

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In order to operate the GridTrendMultiplier 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 512MB (0.5GB), however 1024MB (1GB) 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

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The EA is compatible with MetaQuotes MetaTrader platform version 5.00 build 2530 or higher. In general this is referred to as MT5 terminal, build 2530 or newer.

### 3.4 Forex Broker Requirements

---

The GridTrendMultiplier EA is compatible with both 4 and 5-digit data feeds based brokers. The GridTrendMultiplier 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

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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 FIFO Support

---

By default the GridTrendMultiplier EA may open and close positions out of order of the First-In-First-Out (FIFO) sequence. If your broker does not allow for this and requires to comply with the FIFO rule then please ensure that you select the *Apply FIFO Adjustments* value for the EA parameter [Lot Adjustment for FIFO](#).

**Important:** On broker accounts mandating the FIFO this configuration option must be set before the first start of the EA. Late re-configuration of this option may result in FIFO related trading issues. In this case the only resolution could be to close off all the trades of the ongoing grid and start a new grid from scratch.

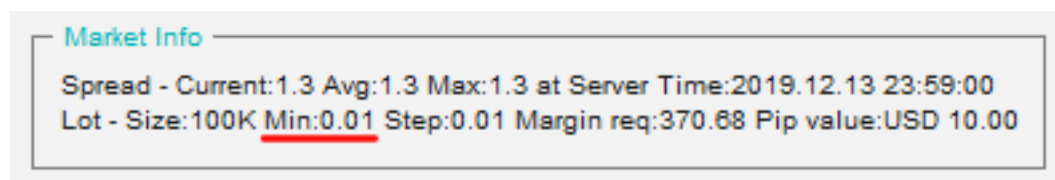
### 3.7 Account Type and Minimum Lot Size Requirements

---

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

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

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# Chapter

# 4

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## GridTrendMultiplier EA Configuration Guide

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The GridTrendMultiplier EA configuration guide.

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

### 4.1 Configuration and Operation Principles

---

The GridTrendMultiplier EA operational overview.

The GridTrendMultiplier EA manages only those tickets (a.k.a positions) on the account which belong to the GridTrendMultiplier EA: every order submitted to the account is marked with the *MagicNumber* and, in return, only those tickets on the account will be considered by the GridTrendMultiplier EA which are marked with this *MagicNumber*.

In general it is recommended to run on an account one EA at a time. This helps understanding the ongoing trades and troubleshoot situation if and when needed.

While this maybe feasible for demo accounts this may not be feasible for live accounts where there could be the need to execute multiple expert advisors on the same account at the same time.

Using multiple expert advisors on the same account is only viable if each and all expert advisor will follow the above *MagicNumber* principle and they manage only their own tickets on the account.

**IMPORTANT: If you plan to use multiple expert advisors (other than the GridTrendMultiplier 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.**

If you plan to use multiple GridTrendMultiplier EA's on the same account at the same time please ensure that the *MagicNumber* is set to different and unique number for each chart of the same market.

Here are few examples:

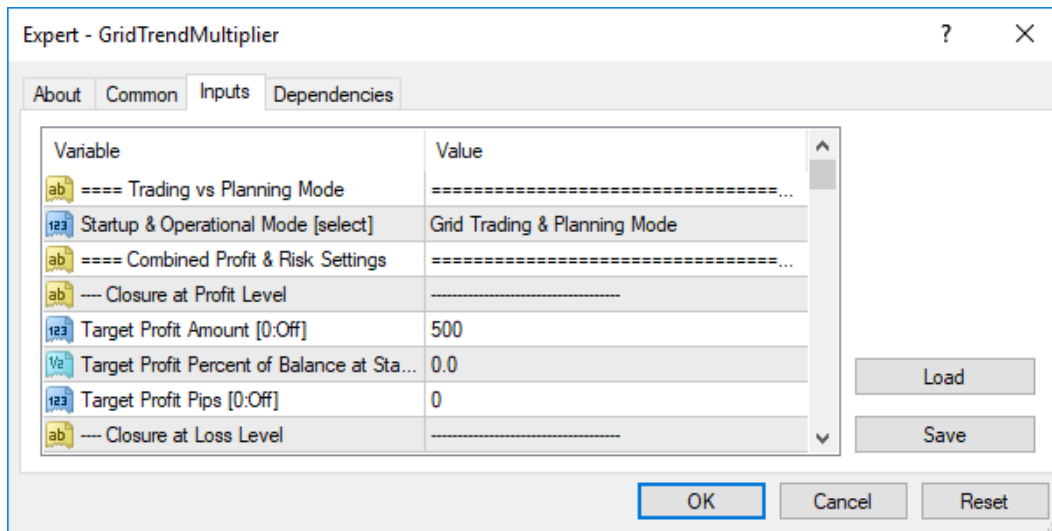
Market	MagicNumber
EURUSD chart 1	5000
EURUSD chart 2	5001
EURUSD chart 3	5002
GBPUSD chart 1	5010
GBPUSD chart 2	5011
GBPUSD chart 3	5012
USDCAD single chart	EA default or any other
USDCHF single chart	EA default or any other

### 4.2 GridTrendMultiplier EA Parameter Descriptions

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The GridTrendMultiplier EA parameter descriptions.

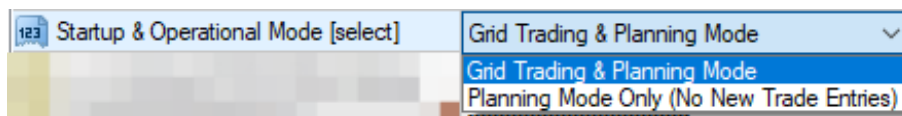
## 4.2.1 Trading vs Planning Mode



### Startup & Operation Mode

#### Startup & Operation Mode

Selects the desired level of trading available when the Forecast Tool is used for planning and analysis. If one wants to analyze a new market which does not have an ongoing grid then the Planning Mode Only allows to use the Forecast Tool on that market without entering any actual trades.



Startup & Operation Mode	Description
Grid Trading & Planning Mode	The EA performs start of new grids and grid trades as normal according to its configuration. On top of the running grid trades the Forecast Tool is available to visualize the impact of future price point. The Forecast Tool takes into consideration the starting point of the existing buy and sell grids and their open positions.
Planning Mode Only (No New Trade Entries)	The EA does not enter any new trades, nor exit any existing grid trades in this mode. The Forecast Tools is available for planning and analysis purposes while no trading is performed. If there were any existing grid trades on the pair of the chart then those are considered by the Forecast Tool.

## 4.2.2 Combined Profit & Risk Settings

Variable	Value
==== Combined Profit & Risk Settings	=====
--- Closure at Profit Level	-----
Target Profit Amount [0:Off]	500
Target Profit Percent of Balance at Sta...	0.0
Target Profit Pips [0:Off]	0
--- Closure at Loss Level	-----
Max Loss Amount [0:Off]	500
Max Loss Percent of Balance at Start [...]	0.0
Max Loss Pips [0:Off]	0
--- Closure at Price Level	-----
Close Grid On or Above Price [0:Off]	0.0
Close Grid On or Below Price [0:Off]	0.0
--- Closure by Optimum Restart	-----
Optimum Restart Minimum Ticket Coun...	0
--- Balance of Buy & Sell Grid Trades	-----
Max Gap of Buy vs Sell Open Trades, ...	0
Max Gap Resolution [dropdown]	Trade With Trend Only
--- Position Sizing	-----
Equity Amount Reserved for This EA [>0]	1000.0
Maximum Drawdown Allowed, Percent ...	30.0
Position Sizing Method [dropdown]	Manual Lot Size
Position Risk Percent [>0]	3.0

Buttons: Load, Save, OK, Cancel, Reset

### Closure at Profit Level

#### Target Profit Amount

Combined buy and sell profit target as an amount of balance increase by the EA trades. The EA will keep trading the buy and sell grids, cash-in at grid levels, until the overall profit of cashed-in and floating buy and sell trades reaches the value of [Target Profit Amount](#). When this combined target is reached then all open buy and sell trades get closed off and (if [Reentry After Grid Closure](#) is set to Enabled) a new cycle of grid trades is started off.

**Note:** This feature can be configured in combination of any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

#### Example:

- [Target Profit Amount](#) is set to 100

The EA trades buy and sell grids until the sum of the closed and floating tickets' profit reaches 100.

#### Target Profit Percent

Combined buy and sell profit target as a percentage of balance increase by the EA trades. The EA will keep trading the buy and sell grids, cash-in at grid levels, until the overall profit of cashed-in and floating buy and sell trades reaches the percent growth of account balance. When this combined target is reached then all open buy and sell trades get closed off and (if [Reentry After Grid Closure](#) is set to Enabled) a new cycle of grid trades is started off.



**Note:** This feature can be configured in combination of any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

**Example:**

- [Target Profit Percent](#) is set to 2
- Account balance is 5000

The EA trades buy and sell grids until the sum of the closed and floating tickets' profit reaches  $5000 \times 2\% = 100$ .

## Target Profit Pips

Combined buy and sell profit target in pips by the EA trades. The EA will keep trading the buy and sell grids, cash-in at grid levels, until the overall profit of cashed-in and floating buy and sell trades reaches this number of pips. When this combined target is reached then all open buy and sell trades get closed off and (if [Reentry After Grid Closure](#) is set to Enabled) a new cycle of grid trades is started off.

**Note:** This feature can be configured in combination of any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

**Example:**

- [Target Profit Pips](#) is set to 100

The EA trades buy and sell grids until the sum of the closed and floating tickets' profit reaches 100 pips.

**Note:** In the case of 5-digit data feed (a.k.a fractional pips) 1 pips is equal to 10 points. The EA expects this input in pips, not in points.

## Closure at Loss Level

### Max Loss Amount

Combined buy and sell maximum loss as an amount of balance decrease by the EA trades. The EA will keep trading the buy and sell grids, cash-in at grid levels, until the overall loss of cashed-in and floating buy and sell trades reaches the value of [Max Loss Amount](#). When this combined loss is reached then all open buy and sell trades get closed off and (if [Reentry After Grid Closure](#) is set to Enabled) a new cycle of grid trades is started off.

**Note:** This feature can be configured in combination of any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

**Example:**

- [Max Loss Amount](#) is set to 100

The EA trades buy and sell grids until the sum of the closed and floating tickets' loss reaches 100.

### Max Loss Percent

Combined buy and sell maximum loss as a percentage of balance decrease by the EA trades. The EA will keep trading the buy and sell grids, cash-in at grid levels, until the overall loss of cashed-in and floating buy and sell trades reaches the percent drop of account balance. When this combined loss is reached then all open buy and sell trades get closed off and (if [Reentry After Grid Closure](#) is set to Enabled) a new cycle of grid trades is started off.

**Note:** This feature can be configured in combination of any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

**Example:**

- [Max Loss Percent](#) is set to 2
- Account balance is 5000

The EA trades buy and sell grids until the sum of the closed and floating tickets' loss reaches  $5000 \times 2\% = 100$ .

## Max Loss Pips

combined buy and sell maximum loss in pips by the EA trades. The EA will keep trading the buy and sell grids, cash-in at grid levels, until the overall loss of cashed-in and floating buy and sell trades reaches this number of pips. When this combined loss is reached then all open buy and sell trades get closed off and (if [Reentry After Grid Closure](#) is set to Enabled) a new cycle of grid trades is started off.

**Note:** This feature can be configured in combination of any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

### Example:

- [Max Loss Pips](#) is set to 100

The EA trades buy and sell grids until the sum of the closed and floating tickets' loss reaches 100 pips.

**Note:** In the case of 5-digit data feed (a.k.a fractional pips) 1 pips is equal to 10 points. The EA expects this input in pips, not in points.

## Closure at Price Level

### Close Grid On or Above Price

The upper price limit for running the grid. When the actual price reaches or goes above this level the EA closes off all open grid trades, regardless of the overall grid profit and loss value. After the grid closure the EA does not start up a new grid even if the price goes back below this [Close Grid On or Above Price](#).

**Note:** After a grid closeout due to reaching this limit, the EA remembers not to start up a new grid. However, if the EA (or the MT4 terminal) gets restarted the EA will no longer remember the closeout and may start up a new grid if the price is below this limit.

When this [Close Grid On or Above Price](#) is configured with a price value then the EA automatically disables the [Reentry After Grid Closure](#) feature.

**Note:** This feature can be configured in combination with any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

### Examples:

- [Close Grid On or Above Price](#) is set to 0

There is no upper price limit to running the grid trades, i.e. this feature is turned off.

- [Close Grid On or Above Price](#) is set to 1.2345

The EA trades buy and sell grids until the actual price reaches, or is above, the 1.2345 value. When the 1.2345 is reached the EA closes off all open grid trades and no new grid is started off (until after the EA gets restarted).

### Close Grid On or Below Price

The lower price limit for running the grid. When the actual price reaches or goes below this level the EA closes off all open grid trades, regardless of the overall grid profit and loss value. After the grid closure the EA does not start up a new grid even if the price goes back above this [Close Grid On or Below Price](#).

**Note:** After a grid closeout due to reaching this limit, the EA remembers not to start up a new grid. However, if the EA (or the MT4 terminal) gets restarted the EA will no longer remember the closeout and may start up a new grid if the price is above this limit.

When this [Close Grid On or Below Price](#) is configured with a price value then the EA automatically disables the [Reentry After Grid Closure](#) feature.

**Note:** This feature can be configured in combination with any other grid exit trigger at the [Combined Profit & Risk Settings](#) section. The EA will track each of them independently and will trigger the close-out when any one of the exit conditions is fulfilled.

### Examples:

- [Close Grid On or Below Price](#) is set to 0

There is no lower price limit to running the grid trades, i.e. this feature is turned off.

- [Close Grid On or Below Price](#) is set to 1.2345

The EA trades buy and sell grids until the actual price reaches, or is below, the 1.2345 value. When the 1.2345 is reached the EA closes off all open grid trades and no new grid is started off (until after the EA gets restarted).

## Closure by Optimum Restart

### Optimum Restart Minimum Ticket Count

A long running grid may develop over time distant buy and sell open trades. It could be beneficial to close off the ongoing grid at an optimum price point to allow for a new grid. The optimum price point would be somewhere between the open buys and sells, depending on their overall lot sizes. This parameter allows the EA to close off the ongoing grid if the number of open buy and sell positions together reached this minimum count value while the buy side and the sell side losses are at about the same amount.

#### Example:

- [Optimum Restart Minimum Ticket Count](#) is set to 10

The EA trades buy and sell grids and the total number of open buy and sell trades reaches 10. From that point on the EA monitors the amount of losses of the open trades on the buy side as well as on the sell side, independently from each other. Once the buy side floating losses and the sell side floating losses become similar then the EA closes off all the open trades, on both the buy and the sell side.



**Attention:** It may take some time before the buy side and the sell side loss amounts would become similar and the grid

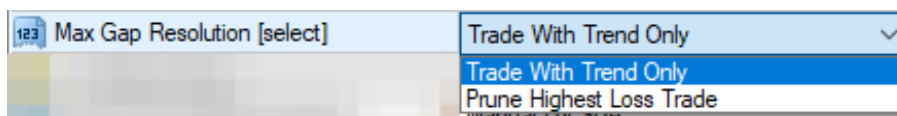
## Balance of Buy & Sell Grid Trades

### Max Gap of Buy vs Sell Open Trades

Keeps the difference between the number of open trades on the buy and sell side within a limit. This parameter sets the maximum gap allowed as a difference before one of the resolution actions applied, as selected at the [Max Gap Resolution](#).

### Max Gap Resolution

The type of action to be performed when the maximum gap between the open buy and sell trades is breached.



Max Gap Resolution	Description
Trade With Trend Only	The EA allows for new trade only in that direction which has the less number of open grid trades. By enlarge this means that the new trades will be entered in the direction of a prevailing trend.
Prune Highest Loss Trade	The EA allows for new trade in any direction, but also closes off the previous open trade with the highest loss amount in the direction with the higher number of open trades when the max gap is breached.

#### Examples:

- [Max Gap of Buy vs Sell Open Trades](#) is set to 6
- [Max Gap Resolution](#) is set to *Trade With Trend Only*
- There are more open buy trades in place than open sell trades.

The EA trades buy and sell grids until the gap between the number of open buy and sell trades reaches 6. Because there are more open buy trades than sell trades, only an upcoming new sell trade entry is considered and will be performed, but no upcoming buy trade is considered. In a falling market this will allow for sell trades but not for buy trades.

- [Max Gap of Buy vs Sell Open Trades](#) is set to 6
- [Max Gap Resolution](#) is set to *Prune Highest Loss Trade*
- There are more open buy trades in place than open sell trades.

The EA trades buy and sell grids and the gap between the number of open buy and sell trades exceeds 6. Because there are more open buy trades than sell trades, the EA identifies the open buy trade with the highest amount of loss and closes it off.

## Position Sizing

### Equity Amount Reserved for This EA

The amount of money allocated for this EA for trading purposes. This reserved amount should be less than the account equity. Also, when multiple EAs are running on the account, their total reserved amounts should be less than the account equity.

**Example:** I want the EA to trade \$2000 part or share of the account equity.

Here is an EA configuration to achieve the above:

1. [Equity Amount Reserved for This EA](#) = 2000

### Maximum Drawdown Allowed

The drawdown level, as a percentage of the [Equity Amount Reserved for This EA](#), when the EA should stop further trading.

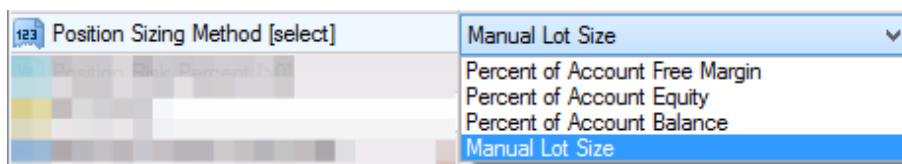
**Example:** I want the EA to trade \$2000 part of the account equity and stop trading when the drawdown becomes 30% or more of this \$2000.

Here is an EA configuration to achieve the above:

1. [Equity Amount Reserved for This EA](#) = 2000
2. [Maximum Drawdown Allowed](#) = 30

### Position Sizing Method

The position sizing mechanism used for new trades at grid level entry.



Position Sizing Method	Description
<b>Percent of Account Free Margin</b>	<p>The lots for new position is calculated based on</p> <ul style="list-style-type: none"> <li>Free Margin available on account, and</li> <li><a href="#">Position Risk Percent</a>, and</li> <li><a href="#">BUY/SELL Gap Size</a>, and</li> <li><a href="#">Max Open Ticket Count</a></li> </ul> <p>The lots for the new position is calculated the following way:</p> <ol style="list-style-type: none"> <li>Composite SL is determined as: <a href="#">BUY/SELL Gap Size</a> x <a href="#">Max Open Ticket Count</a></li> <li>Risk amount is determined as: <a href="#">Position Risk Percent</a> of <i>Free Margin</i></li> <li>Lots determined as: <i>Composite SL</i> / Risk Amount</li> </ol>
<b>Percent of Account Equity</b>	<p>The lots for new position is calculated based on</p> <ul style="list-style-type: none"> <li>Equity available on account, and</li> <li><a href="#">Position Risk Percent</a>, and</li> <li><a href="#">BUY/SELL Gap Size</a>, and</li> <li><a href="#">Max Open Ticket Count</a></li> </ul> <p>The lots for the new position is calculated the following way:</p> <ol style="list-style-type: none"> <li>Composite SL is determined as: <a href="#">BUY/SELL Gap Size</a> x <a href="#">Max Open Ticket Count</a></li> <li>Risk amount is determined as: <a href="#">Position Risk Percent</a> of <i>Equity</i></li> <li>Lots determined as: <i>Composite SL</i> / Risk Amount</li> </ol>
<b>Percent of Account Balance</b>	<p>The lots for new position is calculated based on</p> <ul style="list-style-type: none"> <li>Balance available on account, and</li> <li><a href="#">Position Risk Percent</a>, and</li> <li><a href="#">BUY/SELL Gap Size</a>, and</li> <li><a href="#">Max Open Ticket Count</a></li> </ul> <p>The lots for the new position is calculated the following way:</p> <ol style="list-style-type: none"> <li>Composite SL is determined as: <a href="#">BUY/SELL Gap Size</a> x <a href="#">Max Open Ticket Count</a></li> <li>Risk amount is determined as: <a href="#">Position Risk Percent</a> of <i>Account Balance</i></li> <li>Lots determined as: <i>Composite SL</i> / Risk Amount</li> </ol>
<b>Manual Lot Size</b>	<p>The lots for the new position is not calculated by the EA, instead it is fixed and set to the user-defined value from <a href="#">BUY/SELL Lots for 'Manual Lot Size'</a>.</p>

The position sizing calculation takes place at the time of market entry, when all the entry criteria are met.

## Position Risk Percent

Determines the risk amount allocated to a new grid level trade as a percent of the broker account value. For more details see the [Position Sizing Method](#).

## 4.2.3 BUY/SELL Grid Settings

Expert - GridTrendMultiplier

About Common Inputs Dependencies

Variable	Value
==== BUY Grid Settings	=====
BUY Grid Trading Allowed [select]	Enabled
BUY Initial Entry Price [0:Off]	0.0
BUY Lots for 'Manual Lot Size'	0.1
BUY Gap Size [>0]	20
BUY Stop Loss Pips [0:Off]	0
BUY Take Profit [0:Off]	0
--- BUY Counter Trend Scaling	-----
BUY Counter-Trend Scaling After Grid ...	0
BUY Counter-Trend Gap Scaling Perc...	0
BUY Counter-Trend Lot Scaling Down ...	0
--- BUY Trading Boundary	-----
BUY No New Buy On or Below Price [...]	0.0
BUY No New Buy On or Above Price [...]	0.0
==== SELL Grid Settings	=====
Automatic vs Manual Sell Settings [sel...	Automatic Sell Settings: Copied from Buy (I...
SELL Grid Trading Allowed [select]	Enabled

Load Save

OK Cancel Reset

Expert - GridTrendMultiplier

About Common Inputs Dependencies

Variable	Value
==== SELL Grid Settings	=====
Automatic vs Manual Sell Settings [sel...	Automatic Sell Settings: Copied from Buy (I...
SELL Grid Trading Allowed [select]	Enabled
SELL Initial Entry Price [0:Off]	0.0
SELL Lots for 'Manual Lot Size'	0.1
SELL Gap Size [>0]	20
SELL Stop Loss Pips [0:Off]	0
SELL Take Profit [0:Off]	0
--- SELL Counter Trend Scaling	-----
SELL Counter-Trend Scaling After Grid...	0
SELL Counter-Trend Gap Scaling Perc...	0
SELL Counter-Trend Lot Scaling Down...	0
--- SELL Trading Boundary	-----
SELL No New Sell On or Below Price [...]	0.0
SELL No New Sell On or Above Price [...]	0.0

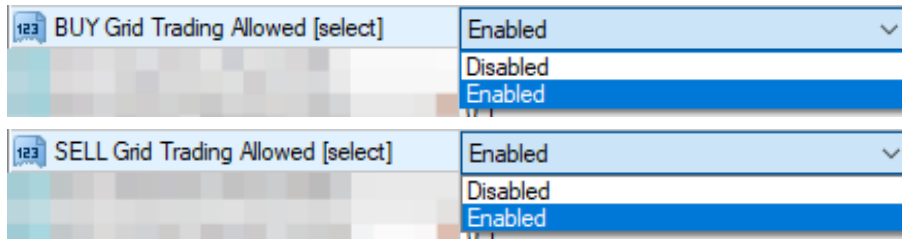
Load Save

OK Cancel Reset

### BUY/SELL Grid Trading Allowed

#### BUY/SELL Grid Trading Allowed

Turns on or off the trade of the grid in the BUY or SELL direction.



## BUY/SELL Initial Entry Price

### BUY/SELL Initial Entry Price

When the EA is started off when no open grid trades are on the account, the EA enters the very first grid trade only when the actual market price reaches this initial entry price. For any subsequent grid trade, for the current grid or starting a new grid after a closure, or when the account already has open grid trades when the EA is started off, this initial entry price has no effect, does not cause the EA to wait with trades.

## BUY/SELL Lots for 'Manual Lot Size'

### BUY/SELL Lots for 'Manual Lot Size'

Sets the lot size for new positions to this user-defined value when the *Manual Lot Size* option is selected for [Position Sizing Method](#).

## BUY/SELL Gap Size

### BUY/SELL Gap Size

Defines the gap between grid levels in pips. The [BUY/SELL Gap Size](#) value should be minimum of 10 pips or more, and no fractional pips should be entered. To avoid confusion the [BUY/SELL Gap Size](#) must always be at least twice of the [Level Sensitivity](#) value, or more.

## BUY/SELL Stop Loss

### BUY/SELL Stop Loss

Stop loss in pips for new buy or sell orders. No fractional pip value to be entered, e.g. for 200 pips stop loss this parameter value should be set to 200 regardless of 4 or 5-digit broker feed. Value 0 (zero) turns off stop loss for new orders.

**Note:** This [BUY/SELL Stop Loss](#) facility is provided for safety purposes. Should the connection to the broker go down, or during power outage the server side can have this stop loss set up to limit potential losses until normal EA operation resumes.

## BUY/SELL Take Profit

### BUY/SELL Take Profit

Take profit in pips for new buy or sell orders. No fractional pip value to be entered, e.g. for 200 pips take profit this parameter value should be set to 200 regardless of 4 or 5-digit broker feed. Value 0 (zero) turns off the take profit for new orders.

When this [BUY/SELL Take Profit](#) is configured with higher than zero value, the entered trade is going to get closed off at the configured take profit pips distance, instead of the next grid level. This means that all the trade entries are executed at the grid levels as per [grid gap size](#) (observing the potential [grid gap scaling](#)), however the exit of the open trades are triggered only when they reach their [BUY/SELL Take Profit](#) pips target.

## BUY/SELL Counter-Trend Scaling

## BUY/SELL Counter-Trend Scaling After Grid Level

When market price goes against the direction of the grid trades the [BUY/SELL Gap Size](#) and the lots for new entries are scaled by the EA for levels specified by the [BUY/SELL Counter-Trend Scaling After Grid Level](#) value. Value zero (0) turns off the scaling feature of the EA, and the scaling can start from level 2 or beyond.

**Note:** The lot scaling is applied to both the *Manual Lot Size* and the *Percent of Account ...* lot sizing options. See [Position Sizing](#).

See examples at [BUY/SELL Counter-Trend Gap Scaling Percent](#) and [BUY/SELL Counter-Trend Lot Scaling Down Percent](#).

## BUY/SELL Counter-Trend Gap Scaling Percent

When market price goes against the direction of the grid trades the [BUY/SELL Gap Size](#) is scaled up by [BUY/SELL Counter-Trend Gap Scaling Percent](#) factor for levels specified by the [BUY/SELL Counter-Trend Scaling After Grid Level](#) value.

Below shows the gaps to be used for a BUY grid trading direction when

- [BUY Gap Size](#) is set to 80 pips
- [BUY Counter-Trend Scaling After Grid Level](#) is set to 2
- [BUY Counter-Trend Gap Scaling Percent](#) is set to 50%

Grid Level	Effective Gap Pips
Up 4	80
Up 3	80
Up 2	80
Up 1	80
Start	80
Down 1	80
Down 2	80
Down 3	120
Down 4	180
Down 5	270

## BUY/SELL Counter-Trend Lot Scaling Down Percent

When market price goes against the direction of the grid trades the effective lot size for new entries is scaled down by [BUY/SELL Counter-Trend Lot Scaling Down Percent](#) factor for levels specified by the [BUY/SELL Counter-Trend Scaling After Grid Level](#) value.

**Note:** The lot scaling is applied to both the *Manual Lot Size* and the *Percent of Account ...* lot sizing options. See [Position Sizing](#).

Below shows the lots to be used for a BUY grid trading direction when

- [BUY Lots for 'Manual Lot Size'](#) is set to 0.10 lots
- [BUY Counter-Trend Scaling After Grid Level](#) is set to 2
- [BUY Counter-Trend Lot Scaling Down Percent](#) is set to 50%

Grid Level	Lots Entered
Up 4	0.10
Up 3	0.10
Up 2	0.10
Up 1	0.10
Start	0.10



Grid Level	Lots Entered
Down 1	0.10
Down 2	0.10
Down 3	0.05
Down 4	0.03
Down 5	0.01

## BUY/SELL Trading Boundary

### BUY/SELL No New Buy/Sell On or Below Price

The minimum price limit to enter new grid trades. When the actual price approaches or goes below this level the EA does not open new trades at the corresponding grid levels. Once the actual price reverses back above this minimum price limit the EA resumes opening new grid trades as per the normal grid trading rules.

#### Examples:

- [BUY No New Buy On or Below Price](#) is set to 0

There is no lower price limit to the buy grid trades, i.e. this feature is turned off for the BUY side.

**Important:** The SELL side has its own EA parameter to control the boundary of the sell grid, independent from the BUY side.

- [SELL No New Sell On or Below Price](#) is set to 1.2345

The EA trades sell grid until the next sell entry level approaches, or is below, the 1.2345 value. When the 1.2345 is approached the EA no longer enters new sell grid trades. Should the actual next sell entry level go back above the 1.2345 then the EA resumes entering new sell grid trades.

**Important:** The BUY side has its own EA parameter to control the boundary of the buy grid, independent from the SELL side.

### BUY/SELL No New Buy/Sell On or Above Price

The maximum price limit to enter new grid trades. When the actual price approaches or goes above this level the EA does not open new trades at the corresponding grid levels. Once the actual price reverses back below this maximum price limit the EA resumes opening new grid trades as per the normal grid trading rules.

#### Examples:

- [SELL No New Sell On or Above Price](#) is set to 0

There is no upper price limit to the sell grid trades, i.e. this feature is turned off.

**Important:** The BUY side has its own EA parameter to control the boundary of the buy grid, independent from the SELL side.

- [BUY No New Buy On or Above Price](#) is set to 1.2345

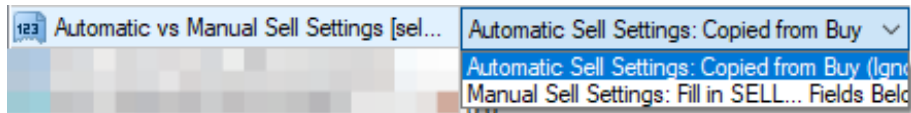
The EA trades buy grid until the next buy entry level approaches, or is above, the 1.2345 value. When the 1.2345 is approached the EA no longer enters new buy grid trades. Should the actual next buy entry level go back below the 1.2345 then the EA resumes entering new buy grid trades.

**Important:** The SELL side has its own EA parameter to control the boundary of the sell grid, independent from the BUY side.

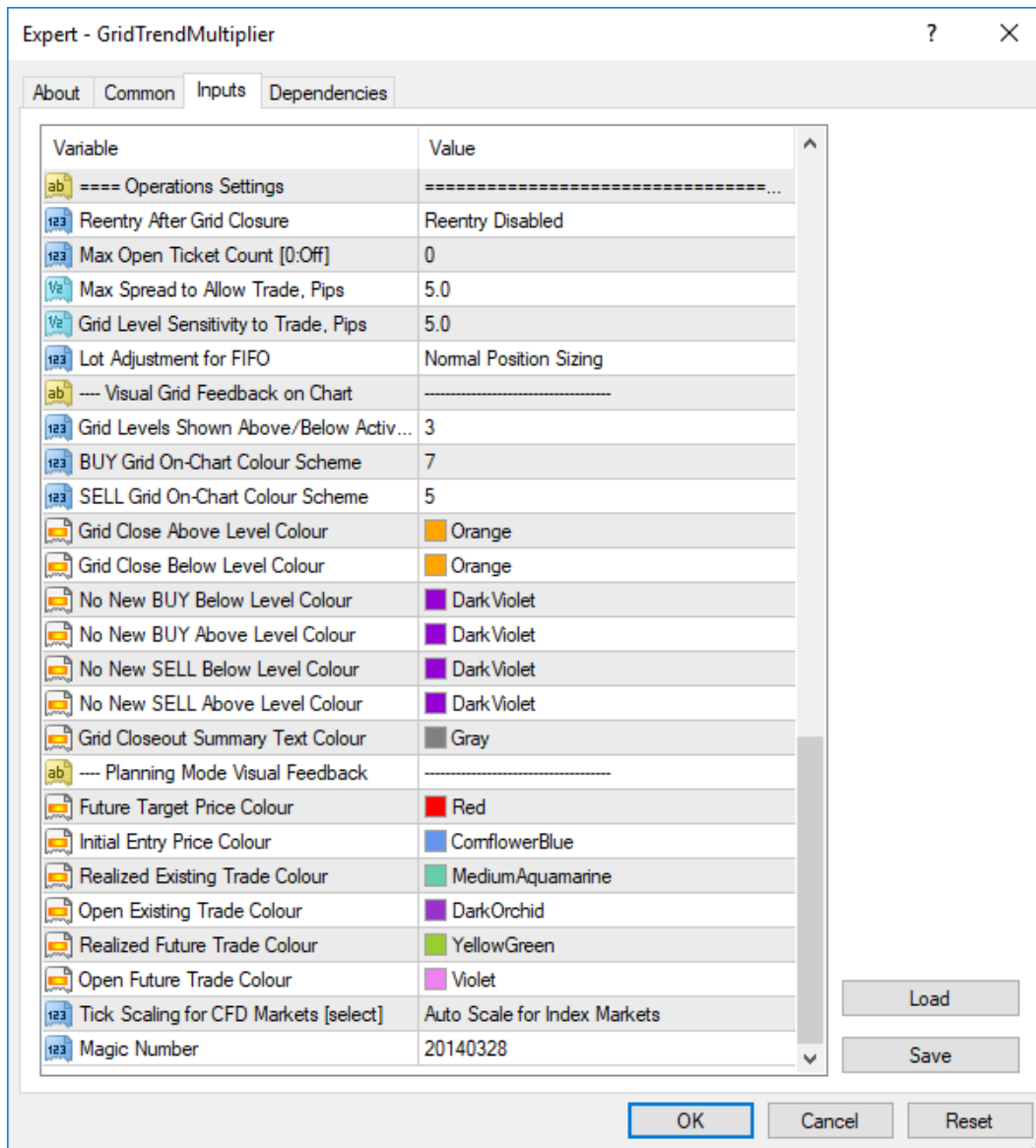
## Automatic vs Manual Sell Settings

### Automatic vs Manual Sell Settings

If sell grid settings should be the same as already configured for buy leg then set this to *Automatic vs Manual Sell Settings*. If the sell grid would have different settings compared to the buy grid then set this to *Manual Sell Settings* and use the subsequent *SELL xxxxx* parameters to configure the sell grid.



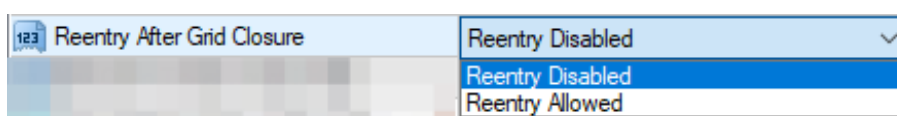
## 4.2.4 Operations Settings



### Reentry After Grid Closure

#### Reentry After Grid Closure

The EA performs the buy and sell grid trades until either the combined profit target or maximum losses reached. Upon that the EA closes off all ongoing trades. A new grid trading cycle is started off only if this [Reentry After Grid Closure](#) parameter is set to true.



### Max Open Ticket Count

## Max Open Ticket Count

Limits the maximum number of open buy and sell trades together. When the total number of open buy plus sell trades reaches this limit then the EA does not enter new trades, neither buy or sell. When the total number of open buy plus sell trades drops below this limit then the EA resumes entering new trades.

## Max Spread to Allow Trade

### Max Spread to Allow Trade

During market periods when the spread goes up beyond this [Max Spread to Allow Trade](#) value the EA stops trading activity, i.e. no new order is submitted nor existing order gets closed off. When spread falls below the [Max Spread to Allow Trade](#) value the EA resumes trading operations as normal.

## Level Sensitivity

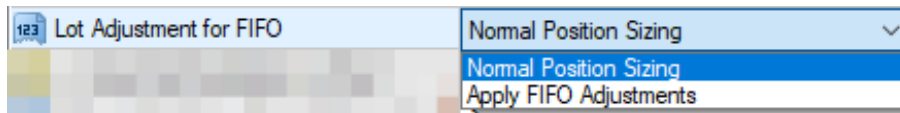
### Level Sensitivity

Allocates a pip range at the grid levels the price action must fall within to trigger order management actions. If the price crosses the grid level and falls within this range beyond the level then the EA will close off appropriate open tickets and open new tickets for the level. However if the price crosses the grid level and jumps over the range (e.g. price gapping at news announcements) then the EA will suppress any level specific order actions. This is to avoid unwanted effects of quick price movements that would put the integrity of the grid at risk. Next time when the price crosses the grid level “appropriately” the order management actions will be performed.

## Lot Adjustment for FIFO

### Lot Adjustment for FIFO

Activates a FIFO specific operation mode of the trade position sizing. The FIFO adjustment requires the use of manual lot sizing - see [Position Sizing](#).



Lot Adjustment for FIFO	Description
Normal Position Sizing	No FIFO specific lot adjustment takes place. New trade's lot sizing is determined by the <a href="#">Position Sizing</a> .
Apply FIFO Adjustments	<p>When the market price goes against the existing grid trade, i.e. during pullback, the EA alternates the lot size for the new trades around the configured manual lot size. This will result in a sequence of trades with lot sizes like 0.09, 0.11, 0.08, 0.12 etc based on a starting manual lot size of 0.10. This varying lot sizes will allow the closure of these trades in reversed order when the pullback turns around.</p> <p><b>Note:</b> The FIFO Adjustments requires the <i>Manual Lot Size</i> option to be selected for the <a href="#">Position Sizing</a>.</p> <p>The minimum lot size stepping allowed by the broker is used for the purpose of FIFO adjustments. Some brokers and markets allow for as small as 0.01 lot size stepping, but some only allow for 0.10 or even 1.00 lot stepping. The <i>Manual Lot Size</i> should always be above the broker required minimum lot size plus a couple of times the minimum lot size stepping.</p> <p><b>Important:</b> The FIFO adjustments will require the increase of the lot sizes used for the grid trades. The increased lot sizes result in higher account funding requirements, higher margin requirements and overall higher risks. Please ensure that your trading plan stays within your risk profile and is supported by your broker account funding levels at all times.</p>

**Examples:****1. Lot Adjustment for FIFO** is set to *Normal Position Sizing*

No FIFO specific lot adjustments take place. The lot for new grid trades is determined by the settings at [Position Sizing](#).

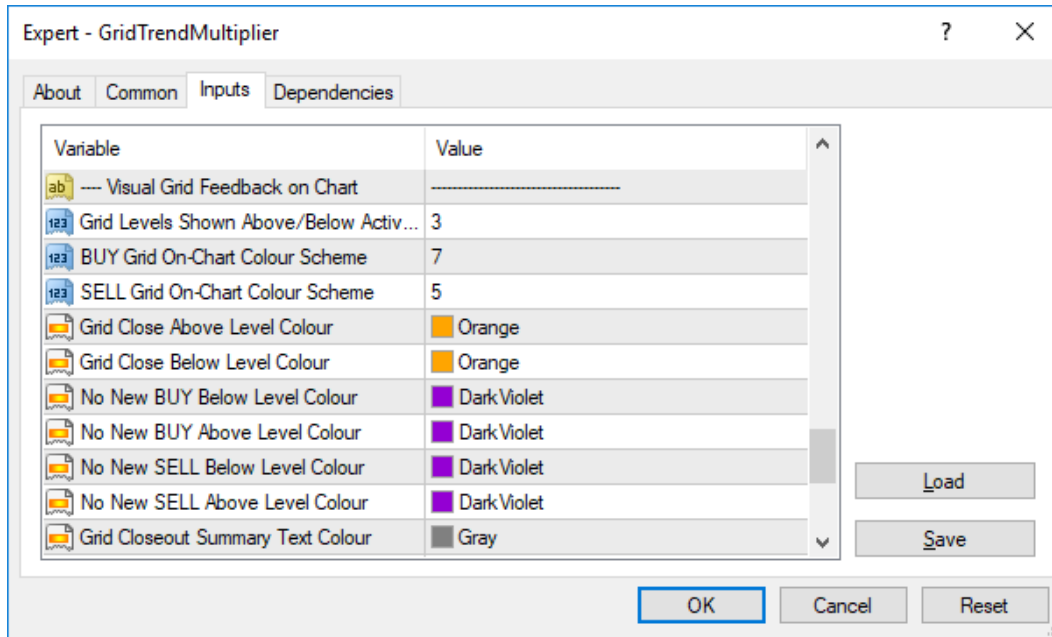
**2. Lot Adjustment for FIFO** is set to *Apply FIFO Adjustments*

- [Position Sizing](#) is set to *Manual Lot Size* (mandatory)
- Assuming a broker market with minimum lot size of 0.01 and stepping 0.01, catering for up to 18 counter-trend grid levels during price pullback.
- [BUY/SELL Lots for 'Manual Lot Size'](#) is set to 0.10

The grid trades in the BUY direction get the following lot size allocations:

Grid Level	Lots Entered
Up 1	Cash in & restart of grid.
<b>Start</b>	<b>0.10</b>
Down 1	0.09
Down 2	0.11
Down 3	0.08
Down 4	0.12
Down 5	0.07
Down 6	0.13
Down 7	0.06
Down 8	0.14
Down 9	0.05
Down 10	0.15
Down 11	0.04
Down 12	0.16
Down 13	0.03
Down 14	0.17
Down 15	0.02
Down 16	0.18
Down 17	0.01
Down 18	0.19
Down 19 and beyond	No position entered.

## Visual Grid Feedback on Chart



### Grid Levels Shown Above/Below Active Grid

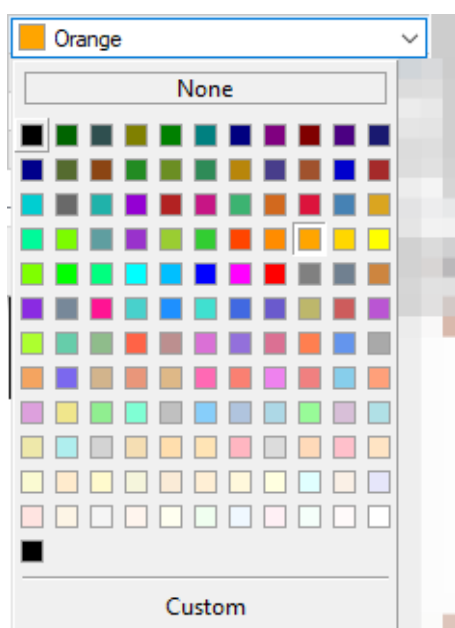
The number of grid levels to be displayed on the chart above and below the current active grid levels. Controls how many grid levels get visualized on the chart marking future trade activities.

### BUY/SELL Grid On-Chart Colour Scheme

Offers various grid level visualization profiles on the chart in terms of colours to be used for grid levels. Value zero (0) turns off grid visualization on the chart, other value in the range of 1 to 7 provides different colour scheme for the grid levels.

### Grid Close Above Level Colour

The colour of the horizontal line on the chart marking the upper limit for grid trades if configured at [Close Grid On or Above Price](#) parameter.



## Grid Close Below Level Colour

The colour of the horizontal line on the chart marking the lower limit for grid trades if configured at [Close Grid On or Below Price](#) parameter.

## No New BUY/SELL Below Level Colour

The colour of the horizontal line on the chart marking the lower limit for BUY grid trades if configured at [No New Buy On or Below Price](#) parameter.

## No New BUY/SELL Above Level Colour

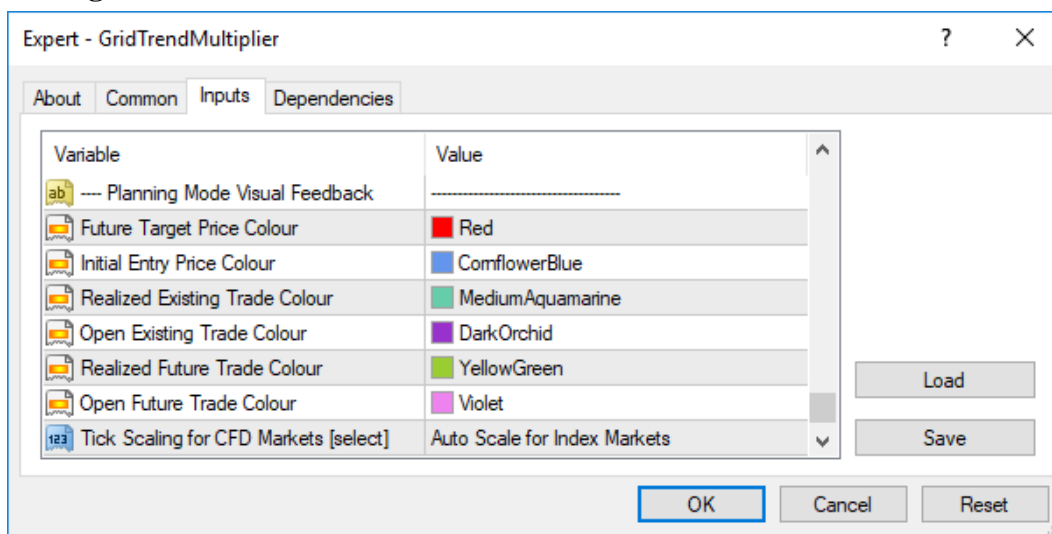
The colour of the horizontal line on the chart marking the upper limit for SELL grid trades if configured at [No New Sell On or Above Price](#) parameter.

## Grid Closeout Summary Text Colour

The colour of the text on the chart describing in a single line summary of the grid closure. The grid gets closed off when one of the exit conditions configured at the section *Combined Profit & Risk Settings* gets fulfilled.

## Planning Mode Visual Feedback

### Planning Mode Visual Feedback



Selects the colours for the various graphical elements presented by the Forecast Tool in the chart.

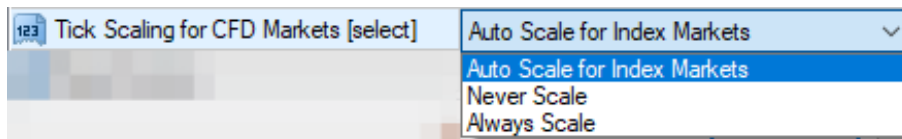
Planning Mode Visual Feedback	Description
Future Target Price Colour	The colour of the price marker for the planned grid closeout. Drag&Drop this marker in the chart to highlight the planned closeout price for the grid.
Initial Entry Price Colour	The colour of the price marker for the planned grid start. Drag&Drop this marker in the chart to highlight the planned entry price for the new grid.
Realized Existing Trade Colour	Colour represents trades which are already open as part of the ongoing grid, and get closed before the planned closeout at the future price.
Open Existing Trade Colour	Colour represents trades which are already open as part of the ongoing grid, and remain open by the planned closeout at the future price.

Planning Mode Visual Feedback	Description
Realized Future Trade Colour	Colour represents trades to be entered and also closed off as price moves to the planned closeout at the future price.
Open Future Trade Colour	Colour represents trades to be entered but remaining open as price moves to the planned closeout at the future price.

## 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	26123.90	26023.90	The EA scales the 100 'pips' parameter to market price of 100.00 US dollar units (i.e. 100.00 points)

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
FOREX pair with 0.0001 unit	EURUSD	100	Auto Scale for Index Markets Alternative: Never Scale	1.1 <u>3</u> 412	1.1 <u>2</u> 412	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	128 <u>8</u> .23	128 <u>7</u> .23	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	<u>5</u> 6.752	<u>5</u> 5.752	The EA maps the 100 'pips' parameter to 100 cent units
Oil market with \$1.00 unit	USOil	10	Always Scale	<u>5</u> 6.752	<u>4</u> 6.752	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	<u>2</u> .9245	<u>1</u> .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	2 <u>1</u> 60	2 <u>0</u> 60	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	<u>2</u> .843	<u>1</u> .843	The EA maps the 100 'pips' parameter to 100 cent units

### Magic Number Parameter



## 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 and belong to the chart of the EA. In the case of multiple EA's running on the same market ensure that they get unique *Magic Number* allocations to avoid cross-impact between the EA instances handling the orders. See [Configuration and Operation Principles section](#) for more explanation and setup examples.

### Related information

[Configuration and Operation Principles](#)

The GridTrendMultiplier EA operational overview.

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# Chapter 5

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## Knowledgebase

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### 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](#).

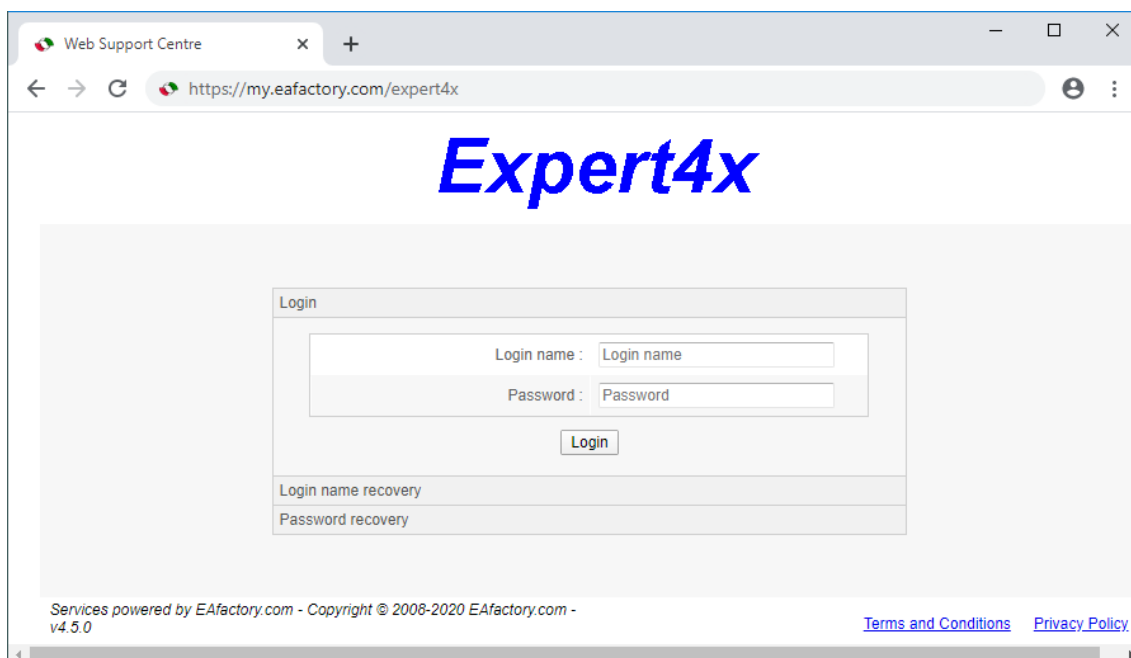
### 5.2 How to Download the Setup Application

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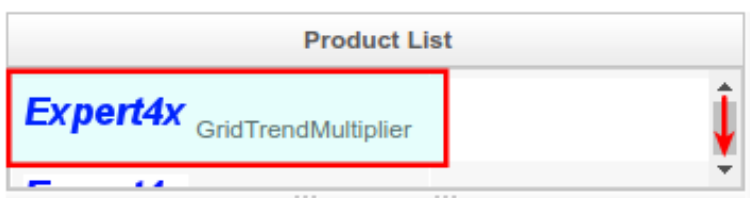
#### Question

How to download the GridTrendMultiplier EA Setup application?

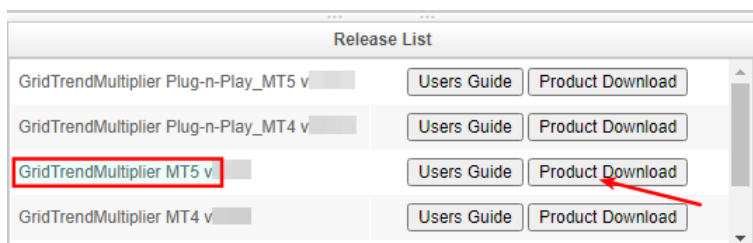
1. Log in to the [Web Support Centre](#).



2. Scroll down and click on the GridTrendMultiplier EA in the **Product List**.



3. Click on the **Product Download** button to download the EA setup.



## 5.3 How to Install the GridTrendMultiplier EA

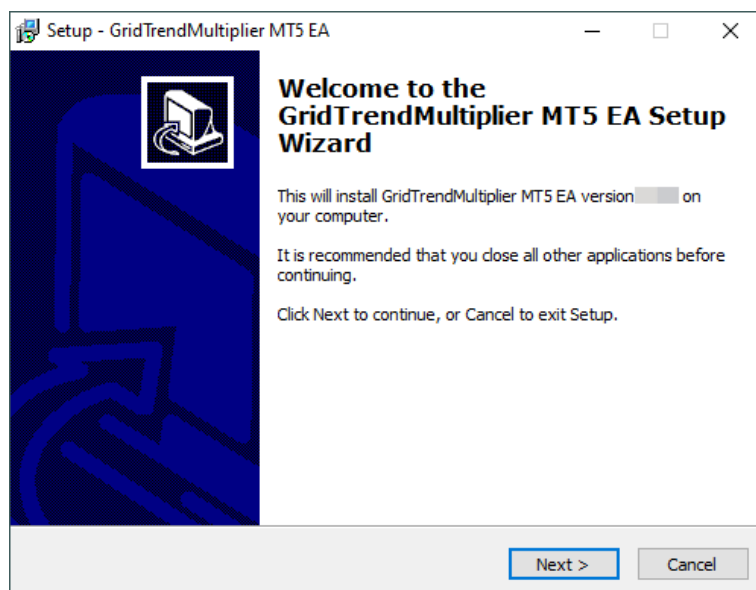
The GTM EA comes with a setup application to provide a wizard based installation process to the selected MT5 terminal.

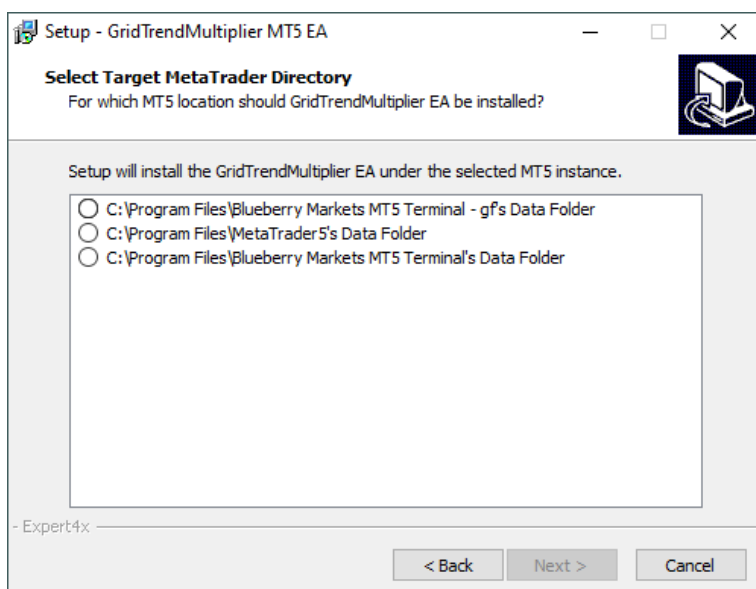
### Before you start...

- Ensure that you have the login credentials to the Web Support Centre.
- Ensure that you have an MT5 terminal version 5.00 build 2530 or later installed.

1. Exit MT5 if it was running.
2. Select the desired service and download the setup application with the latest version.
3. Run the setup application. Select the MT5 instance during setup to where you want the service installed.
4. When setup completes start up MT5. The GTM 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.

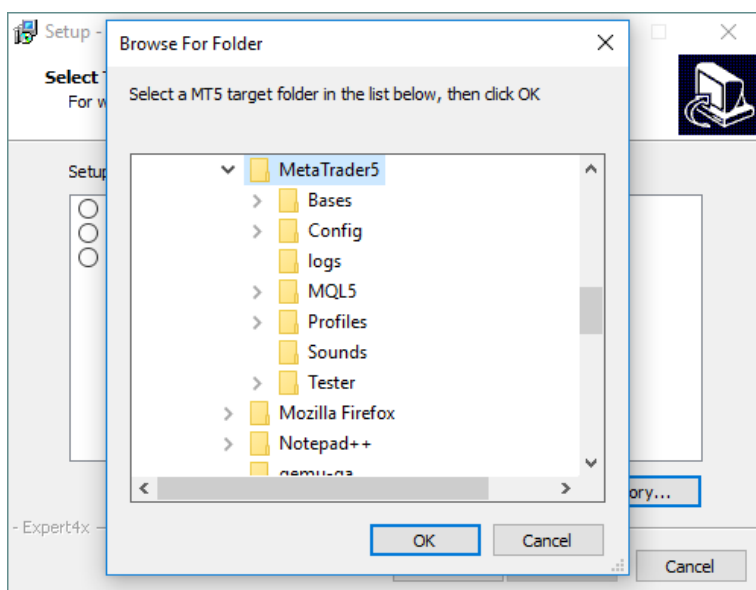




The setup application lists the available MT5 instances. Select one of them for installation target and click on the **Next**.

**Note:**

For some earlier version Windows version the list may not contain all the MT5 instances. In this case use the **Add target directory...** button to navigate and pick up the desired folder.

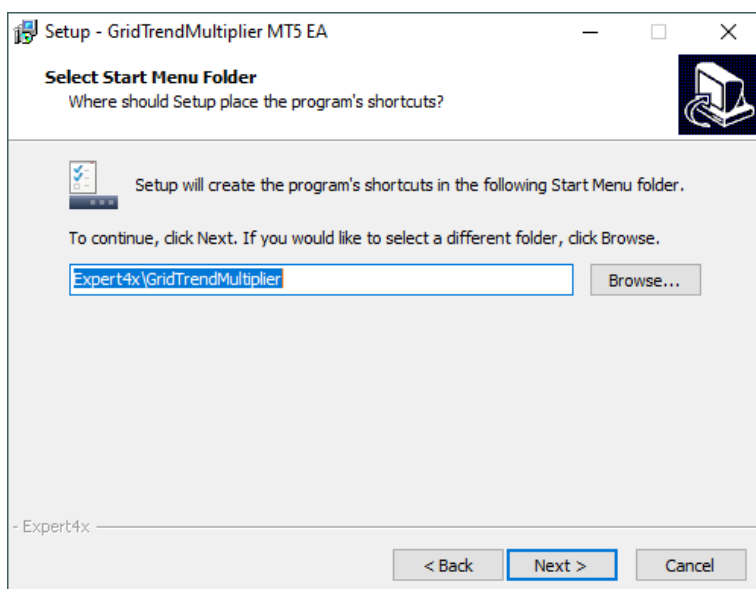


C:\Program Files\BrokerSpecificName\

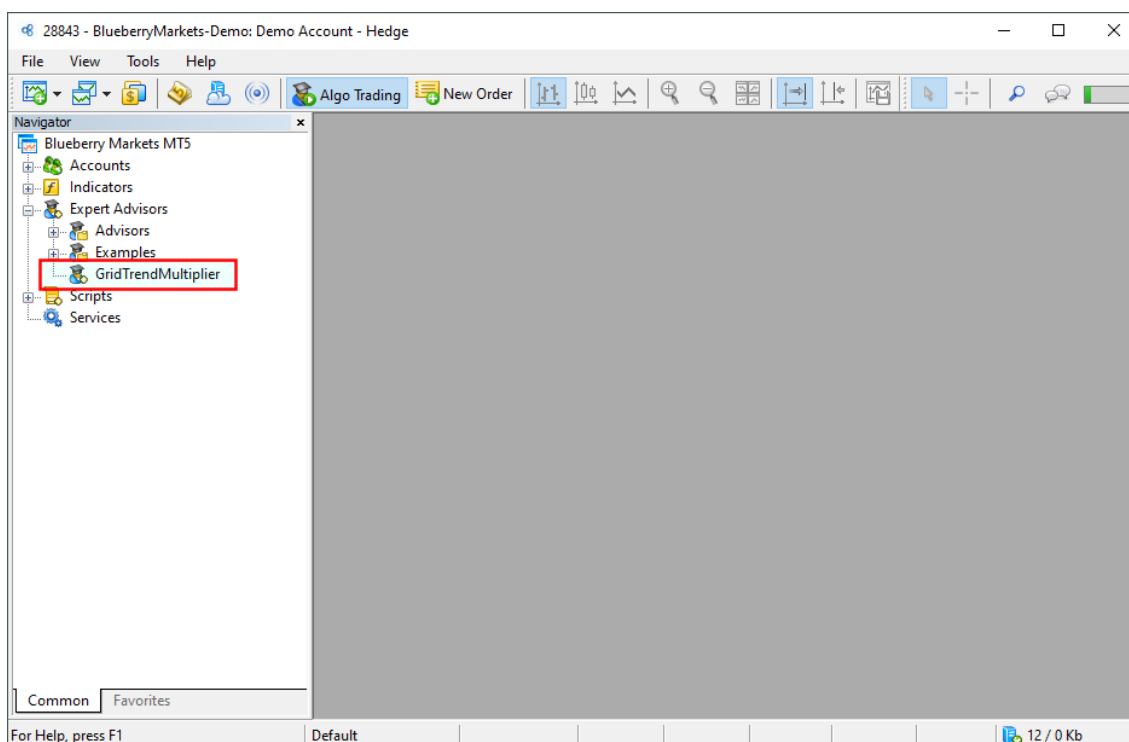
but you may have selected something else while performing the MetaTrader installation. As a hint, the following shows you the default path to the main MT5 directory for some brokers:

Broker	Default Path
Blueberry Markets broker	C:\Program Files\Blueberry Markets MT5 Terminal
ICMarkets broker	C:\Program Files\ICMarkets - MetaTrader 5
ActivTrades broker	C:\Program Files\MetaTrader 5 - ActivTrades
Admiral Markets broker	C:\Program Files\Admiral Markets MT5
Pepperstone broker	C:\Program Files\Pepperstone MetaTrader 5

Always select the main MT5 folder itself for installation target, not any of its sub-directories.



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



So everything is set up for the first activation of the GridTrendMultiplier Expert Advisor .

## 5.4 How to Upgrade the EA

### Question

How to upgrade the GridTrendMultiplier EA?

### Answer

In order to upgrade the EA please follow these steps:

1. Download the latest GridTrendMultiplier 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 GridTrendMultiplier EA setup application. Follow through all of the wizard pages to complete the EA installation.
4. Start up the MT5 terminal.

The upgraded GridTrendMultiplier 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](#)

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

#### Related information

[How to Download the Setup Application](#)

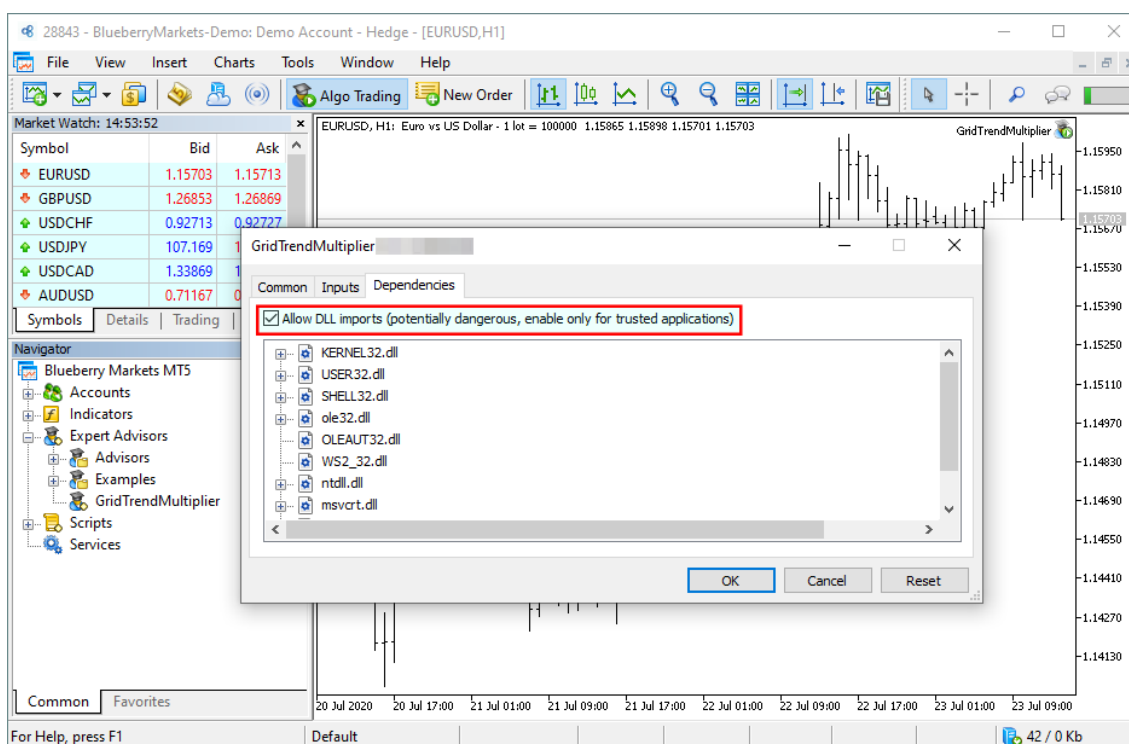
## 5.5 How to Attach the GridTrendMultiplier Expert Advisor to a Chart

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

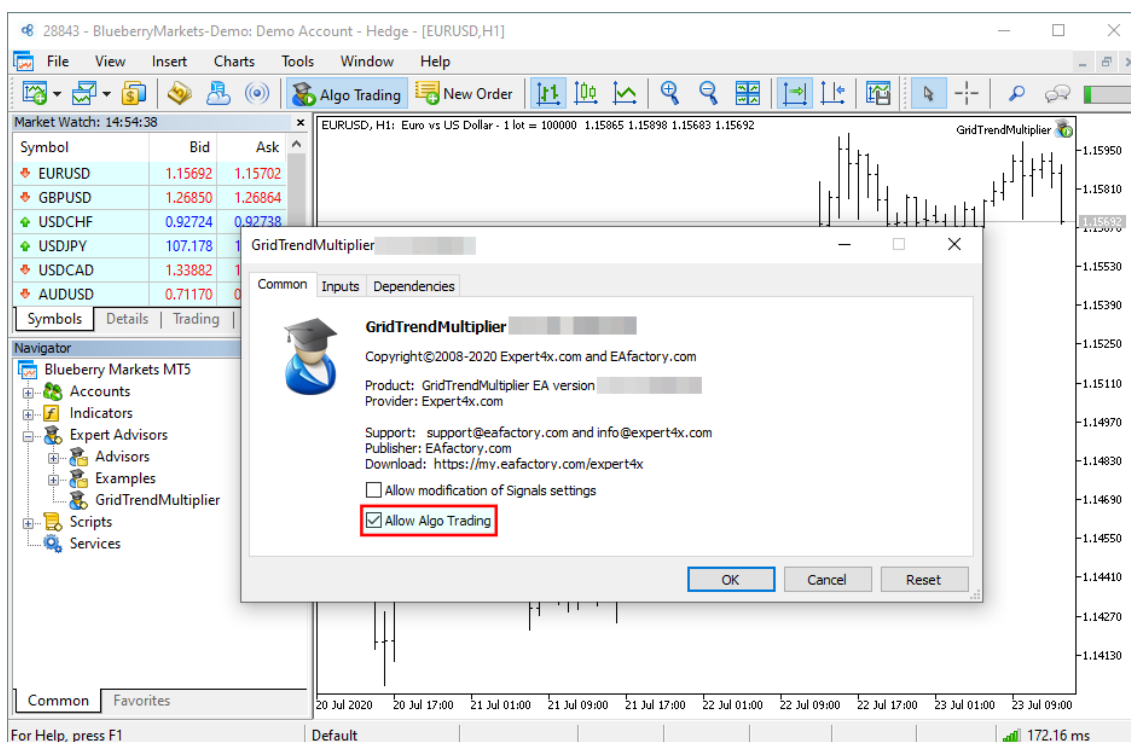
The following pictures demonstrate the first time activation of the GridTrendMultiplier Expert Advisor in a few steps.

### Attach the EA to a chart

1. Drag & drop the GridTrendMultiplier 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**:



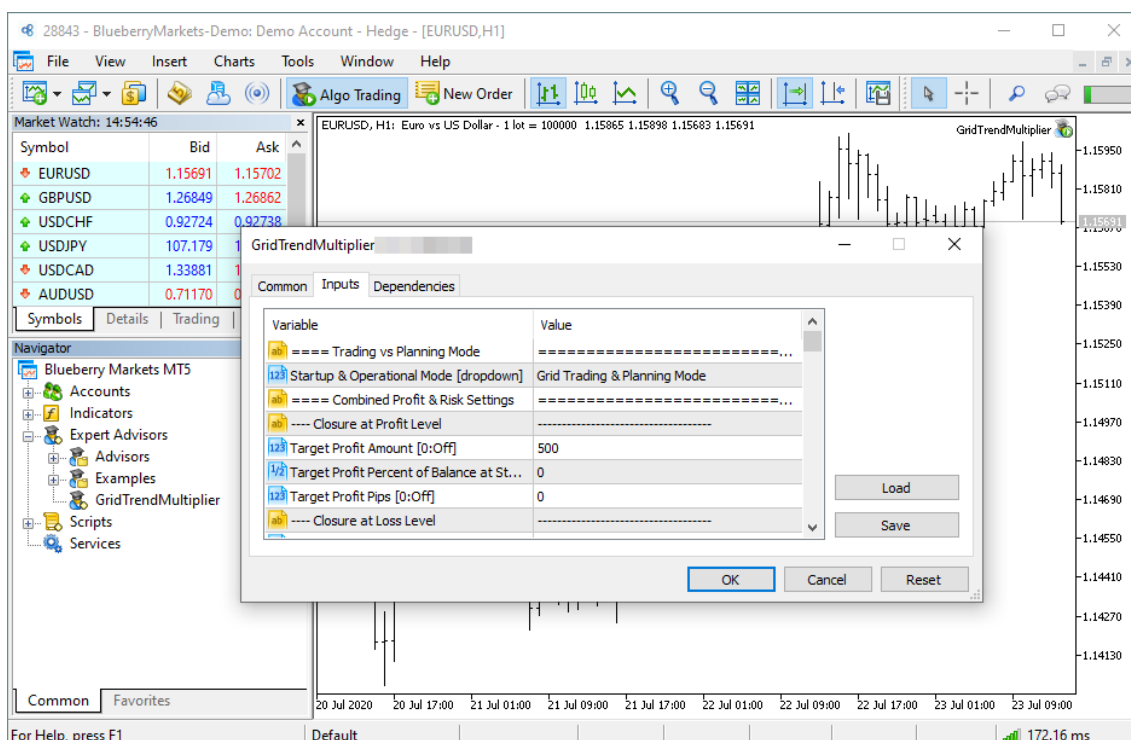
### Note:

Ensure that the

- **Allow DLL imports** and
- **Allow Automated Trading**

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

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

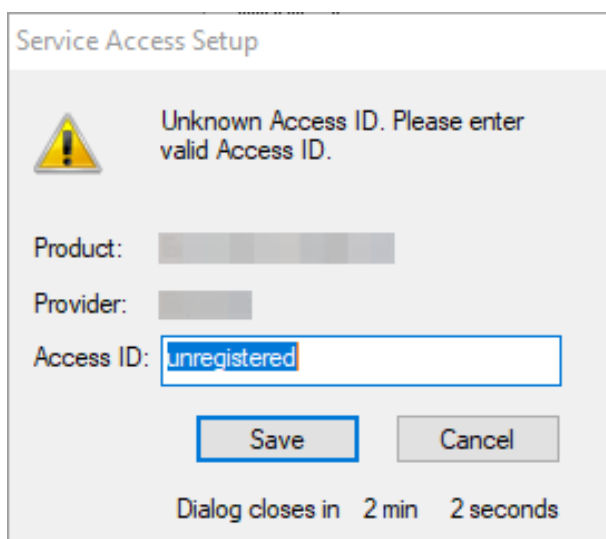


This lists the parameters of the EA where the operational aspect of the GridTrendMultiplier EA can be set up. For more details see the [GridTrendMultiplier EA Configuration Guide](#) – for now click on the **OK** button and let the EA start up with default settings.

**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:

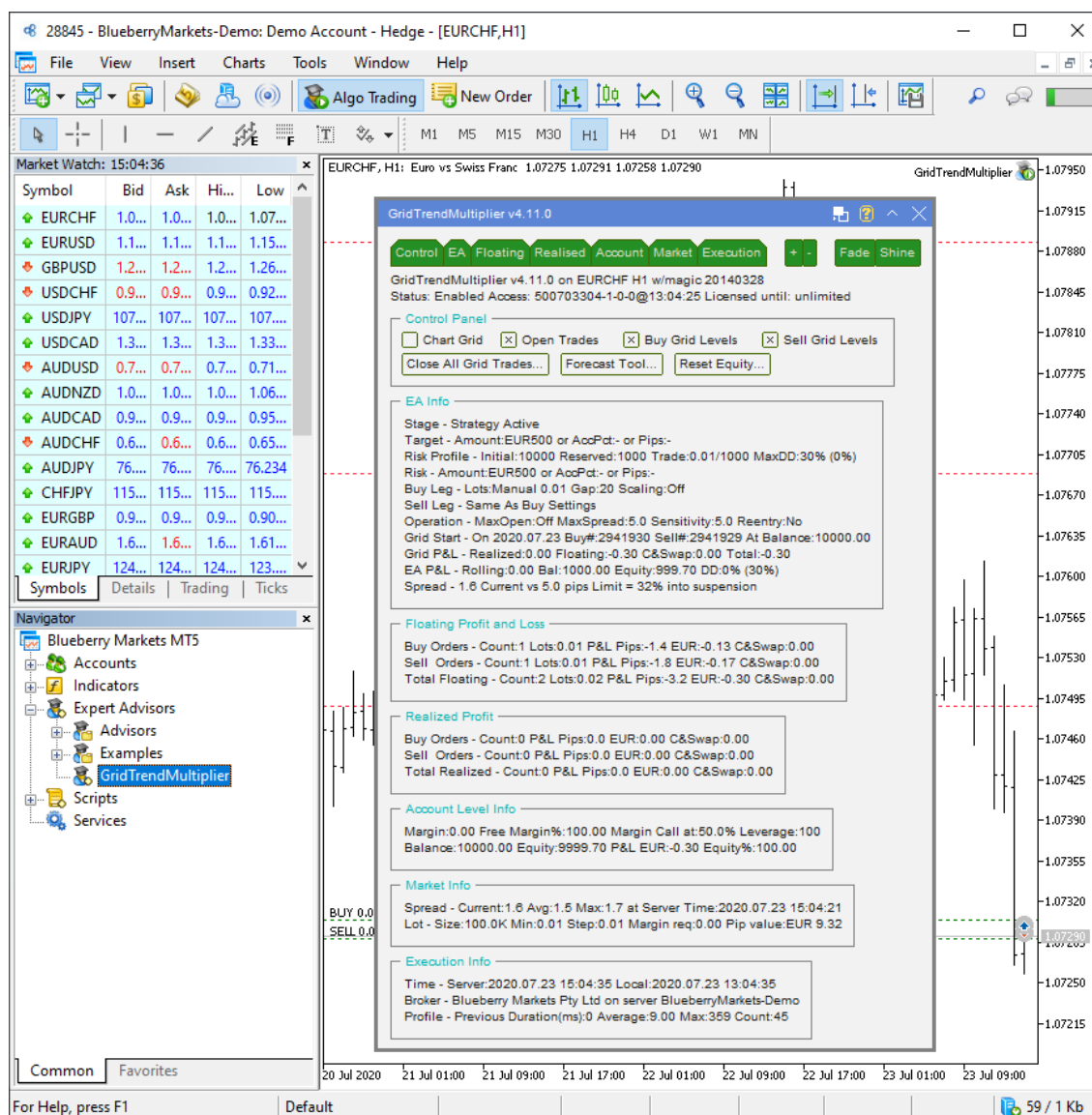


The image shows a 'Service Access Setup' dialog box. It features a yellow warning triangle icon on the left. To the right of the icon, the text reads: 'Unknown Access ID. Please enter valid Access ID.' Below this message are three input fields: 'Product:' followed by a greyed-out text box, 'Provider:' followed by a greyed-out text box, and 'Access ID:' followed by a text box containing the word 'unregistered'. At the bottom of the dialog are two buttons: 'Save' and 'Cancel'. Below the buttons, a status bar indicates 'Dialog closes in 2 min 2 seconds'.

**The GridTrendMultiplier EA is up and running**

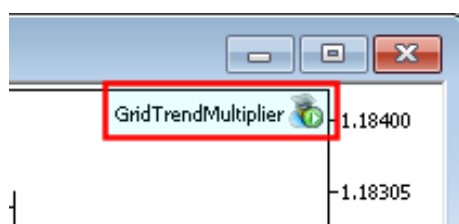
After successful authentication the GridTrendMultiplier EA starts up.





The GridTrendMultiplier Expert Advisor has been attached to the chart. The smiley face in the top-right corner shows that the initialisation of the GridTrendMultiplier 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 Buy or Sell Only Mode Grid

### Question

How can I configure the GridTrendMultiplier EA to run in Buy only or Sell only mode? I.e. trading in one direction only.

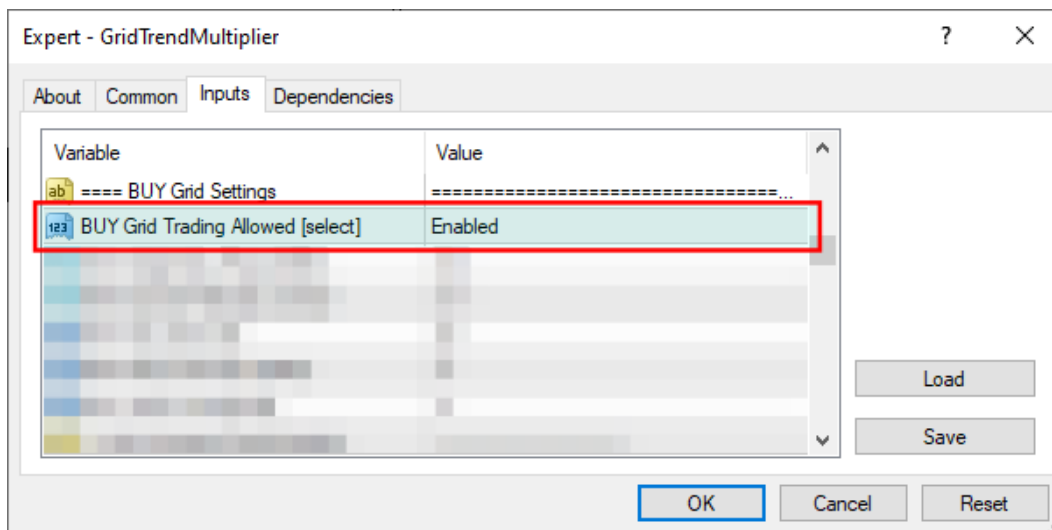
In buy only mode the GridTrendMultiplier EA enters only buy grid trades, in sell only mode the GridTrendMultiplier EA enters only sell grid trades.

## BUY only mode

Set the following three EA parameters as highlighted below for BUY only mode.

1. Turn ON buy direction

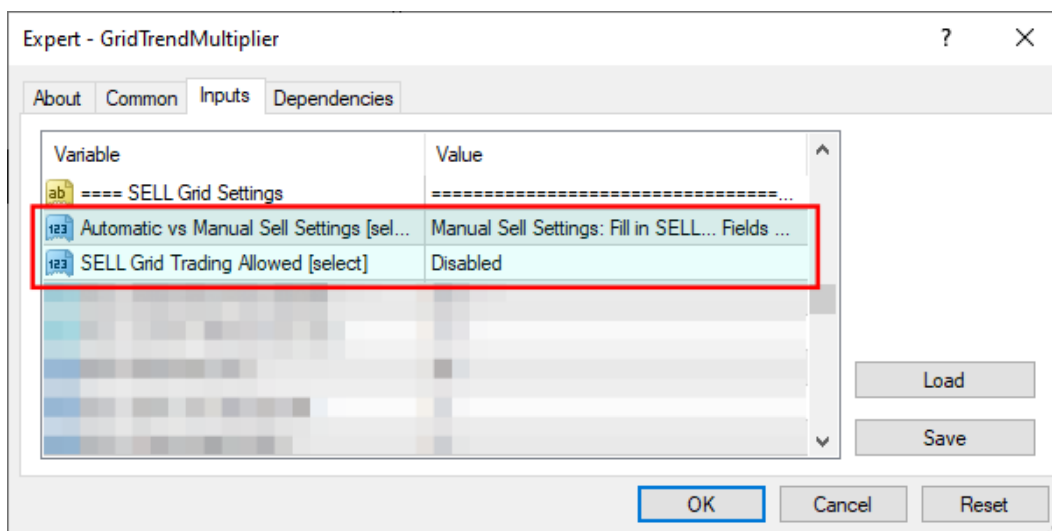
Set the *BUY Grid Trading Allowed* parameter to **Enabled**



2. Turn OFF sell direction

Set the *Automatic vs Manual Sell Settings* parameter to **Manual Sell Settings: Fill in SELL... Fields Below**

Set the *SELL Grid Trading Allowed* parameter to **Disabled**

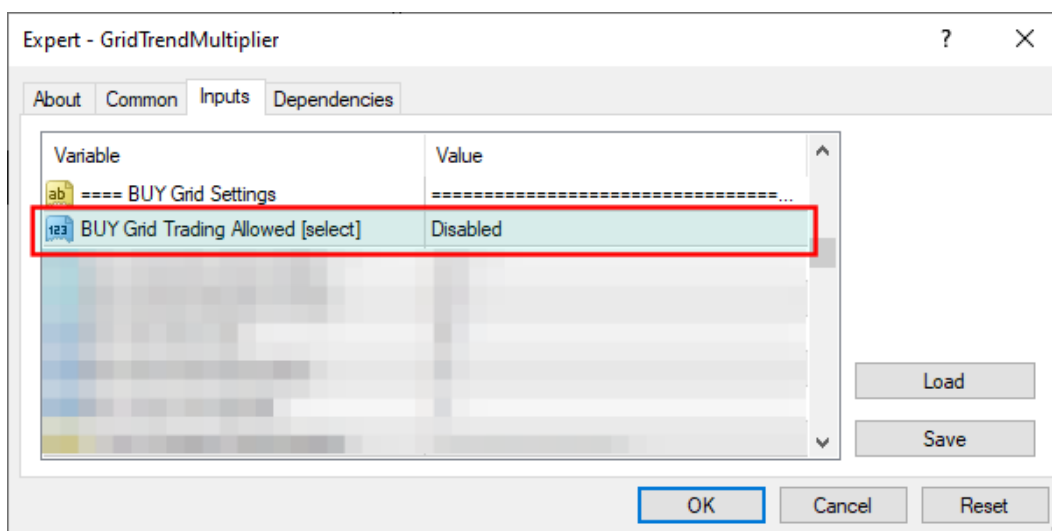


## SELL only mode

Set the following three EA parameters as highlighted below for SELL only mode.

1. Turn OFF buy direction

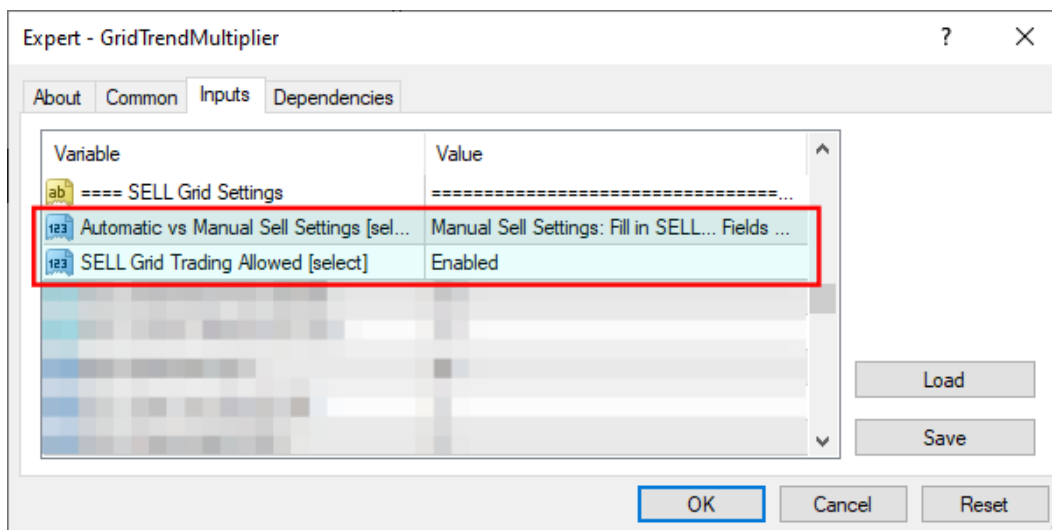
Set the *BUY Grid Trading Allowed* parameter to **Disabled**



2. Turn ON sell direction

Set the *Automatic vs Manual Sell Settings* parameter to **Manual Sell Settings: Fill in SELL... Fields Below**

Set the *SELL Grid Trading Allowed* parameter to **Enabled**



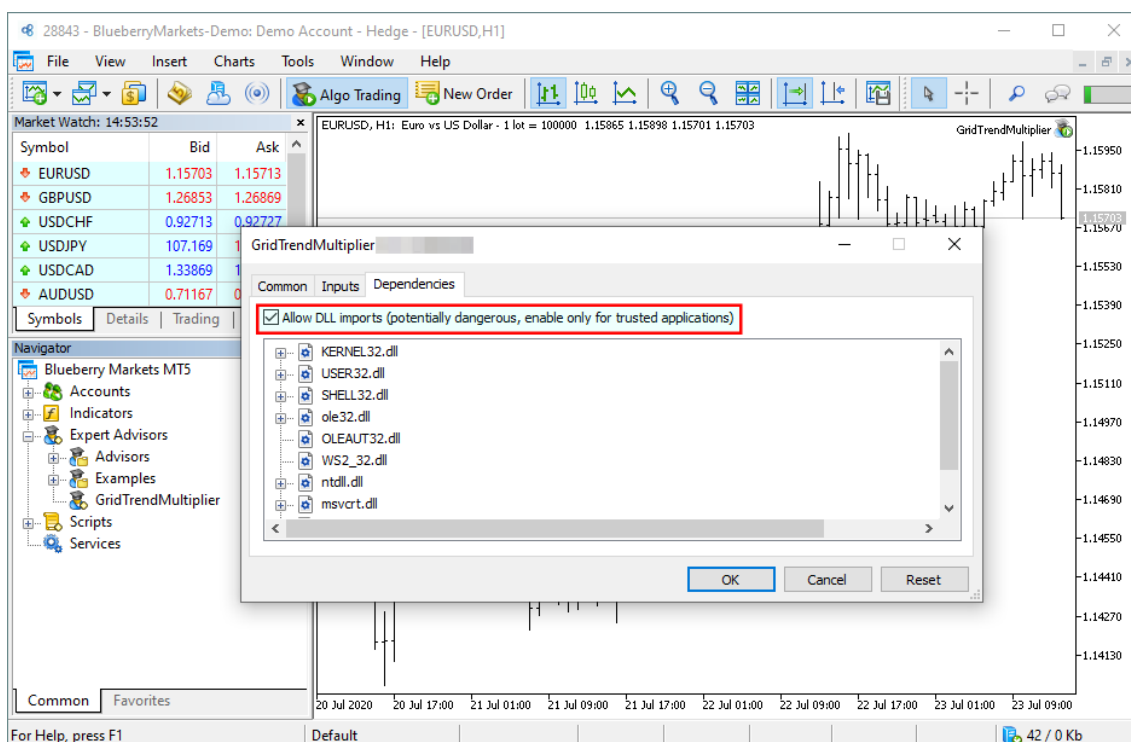
## 5.7 GridTrendMultiplier Expert Advisor First Time Activation

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

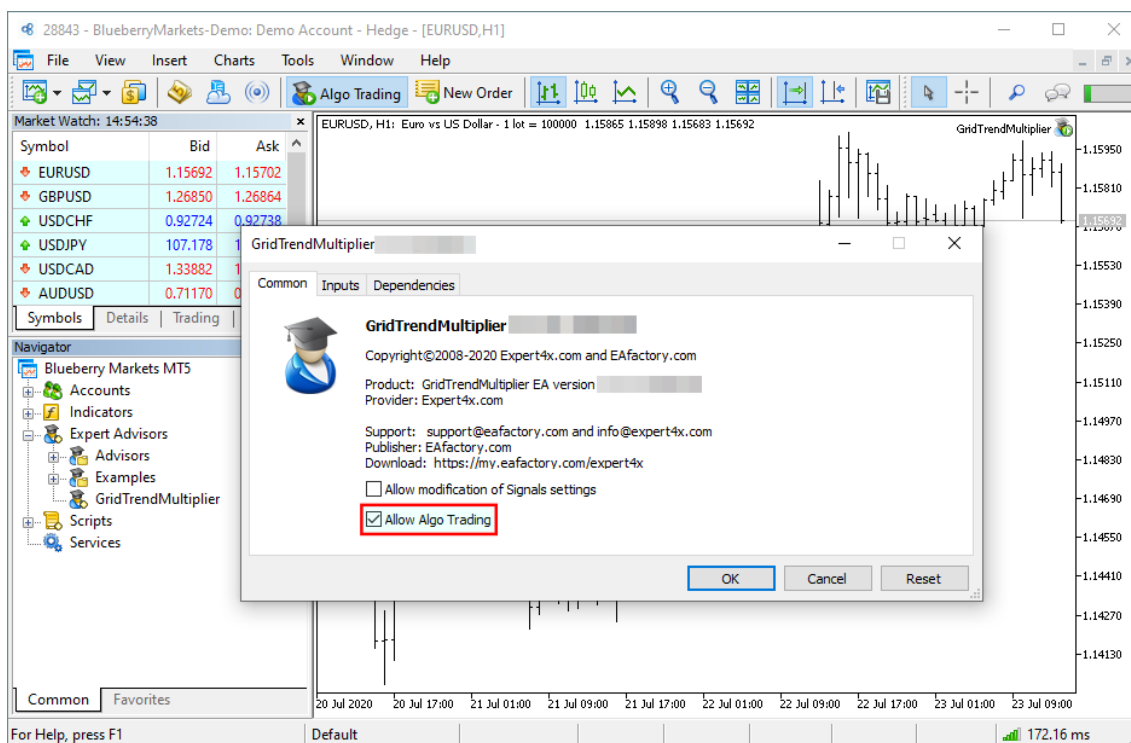
The following pictures demonstrate the first time activation of the GridTrendMultiplier Expert Advisor in a few steps.

### Attach the EA to a chart

1. Drag & drop the GridTrendMultiplier 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**:



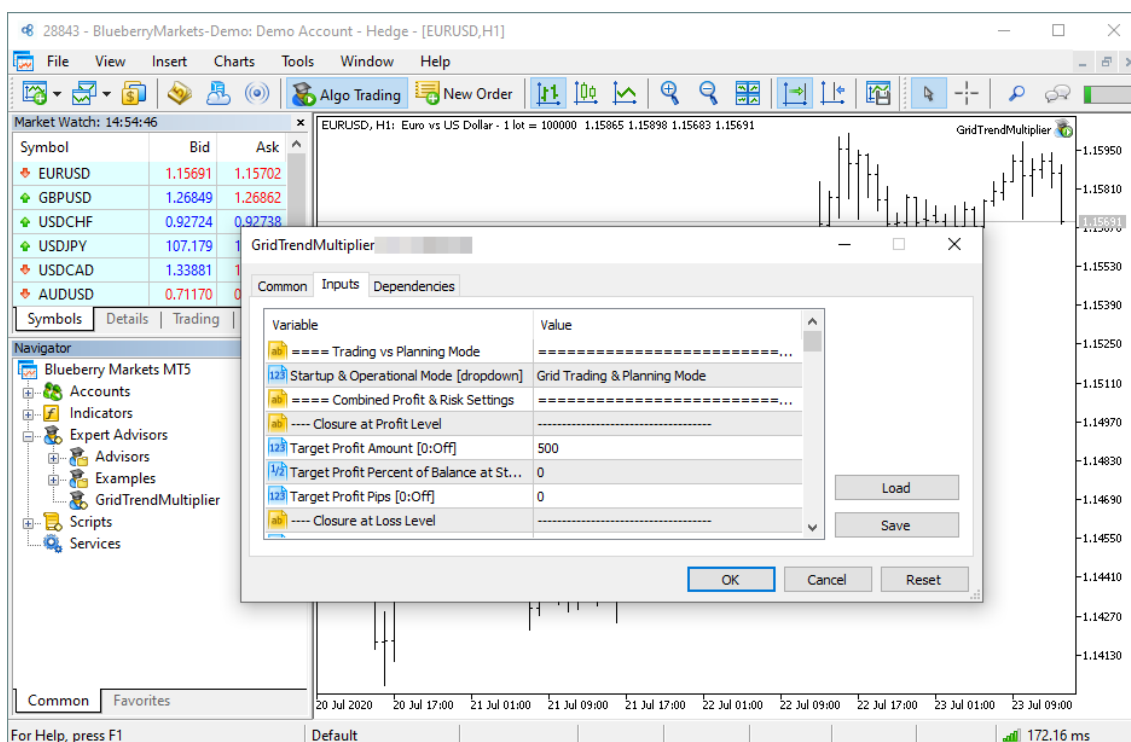
### Note:

Ensure that the

- **Allow DLL imports** and
- **Allow Automated Trading**

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

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

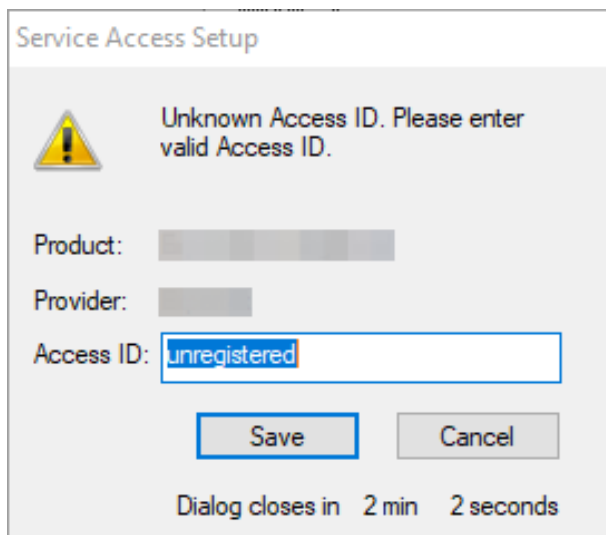


This lists the parameters of the EA where the operational aspect of the GridTrendMultiplier EA can be set up. For more details see the [GridTrendMultiplier EA Configuration Guide](#) – for now click on the **OK** button and let the EA start up with default settings.

#### Note:

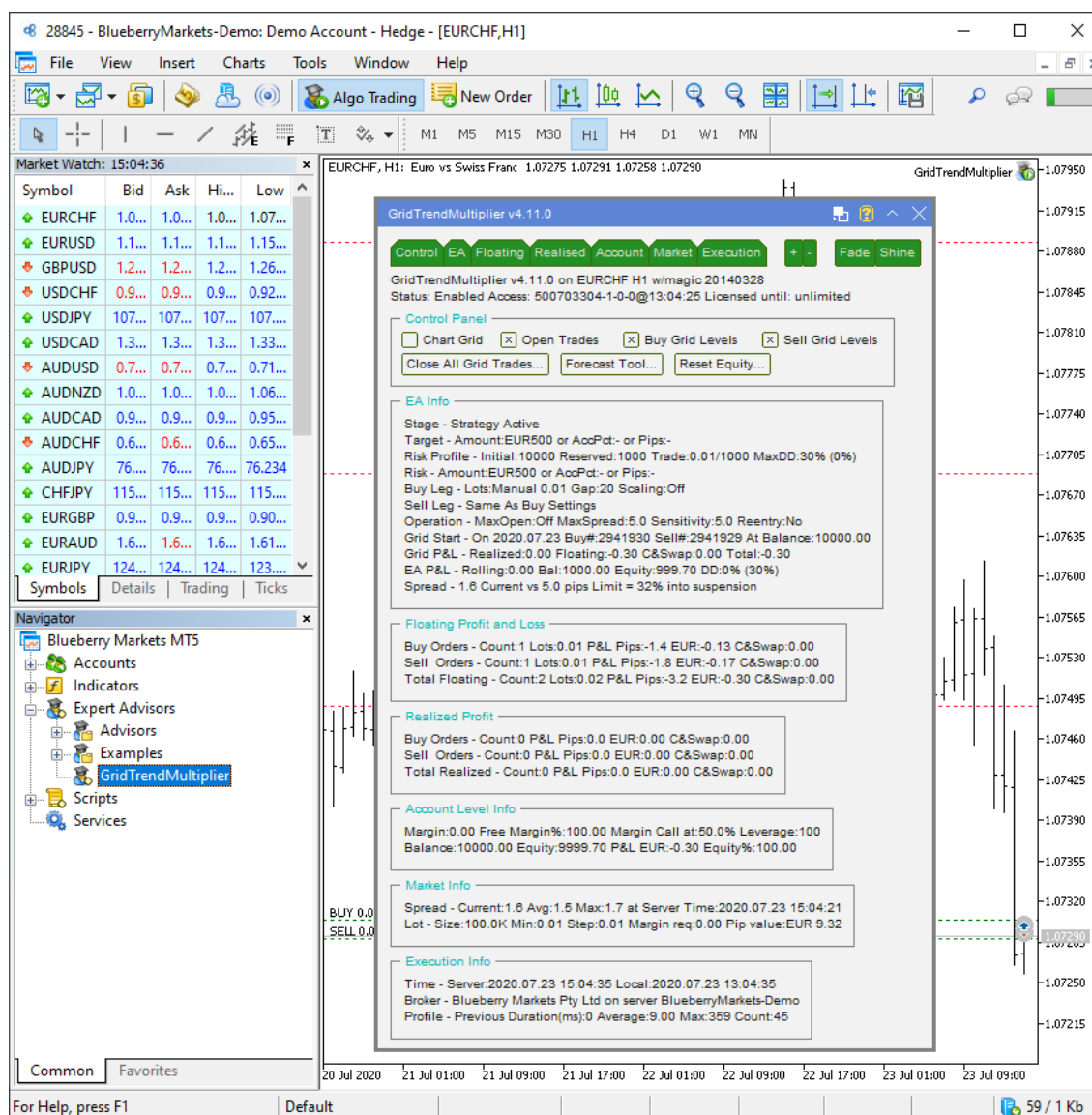
At the very first time the EA may prompt for the Access ID to verify that the usage of product is licensed.

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:



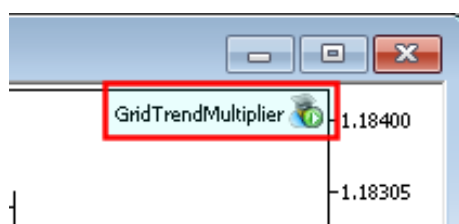
### The GridTrendMultiplier EA is up and running

After successful authentication the GridTrendMultiplier EA starts up.



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


See the smiley face in the corner:

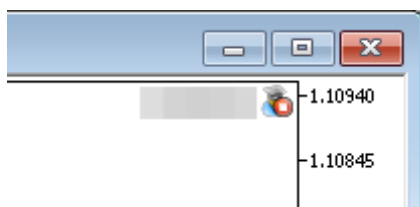


In case of a problem getting the ea up and running please refer to the [Knowledgebase section](#).

## 5.8 Sign Instead of Sign After Attach

### Issue

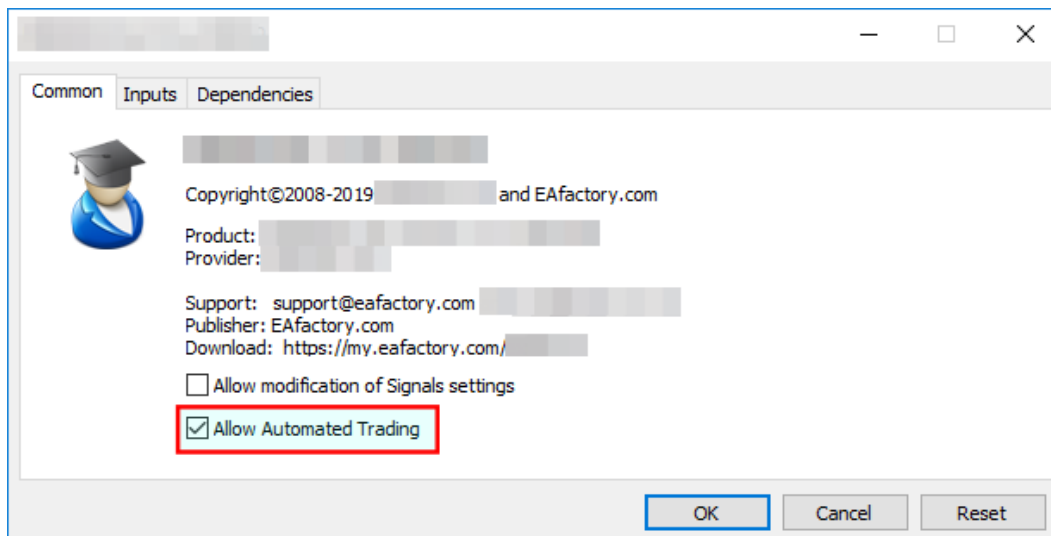
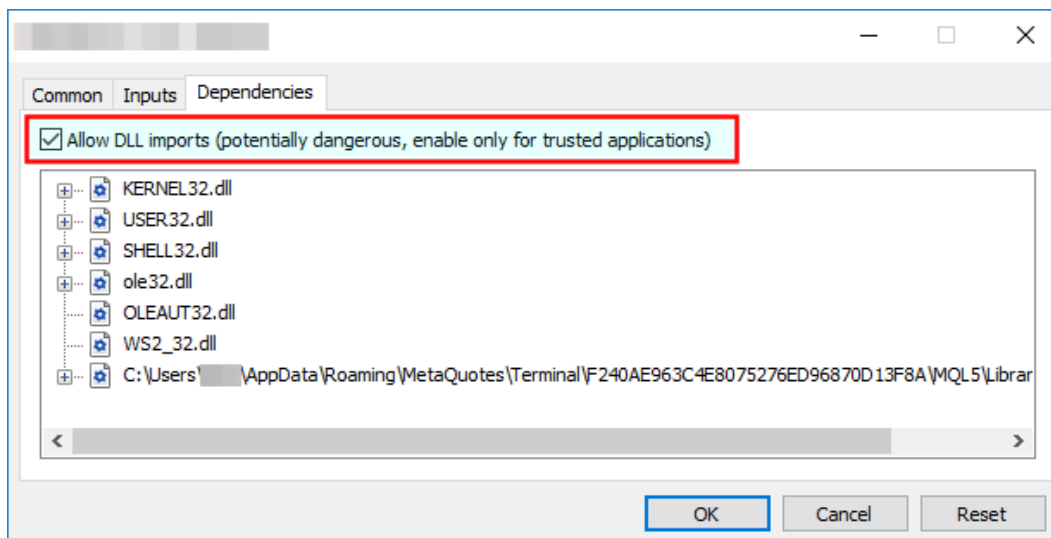
After attaching to chart the EA is not managing trades, a  sign appears in the top right corner of the chart.



## 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.

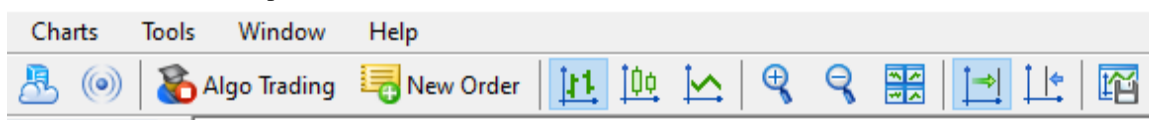


## Algo Trading is disabled

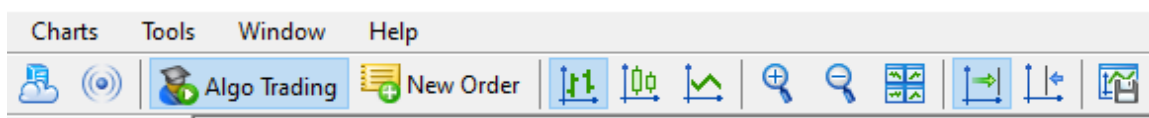
The **Algo Trading** might be disabled

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

Toolbar button when Expert Advisors disabled:



Click to enable:



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

### Issue

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

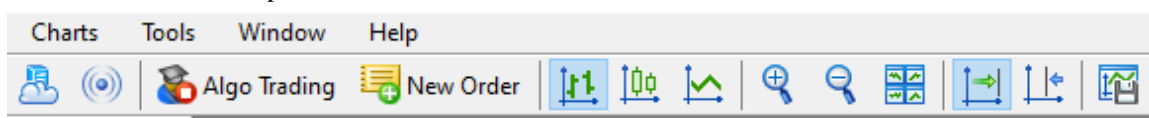


### Algo Trading is disabled

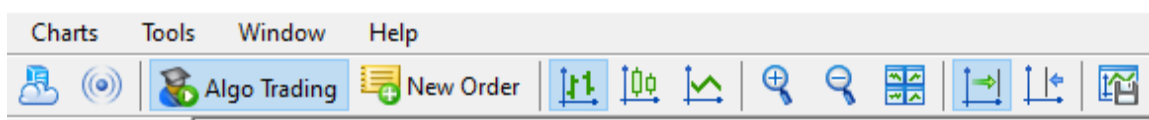
The **Algo Trading** might be disabled

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

Toolbar button when Expert Advisors disabled:



Click to enable:



## 5.10 No Updates to Chart

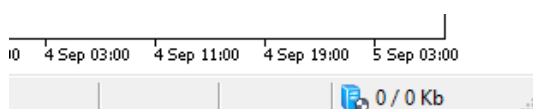
### Issue

The GridTrendMultiplier 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:



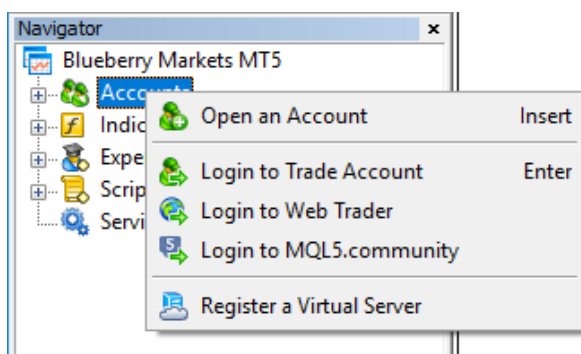
2. If connection is lost then login again or restart MT to force reconnection. Try again activating the GridTrendMultiplier EA when connection is back.

### 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.

## 5.11 Prompted for Access ID at Service Access Settings

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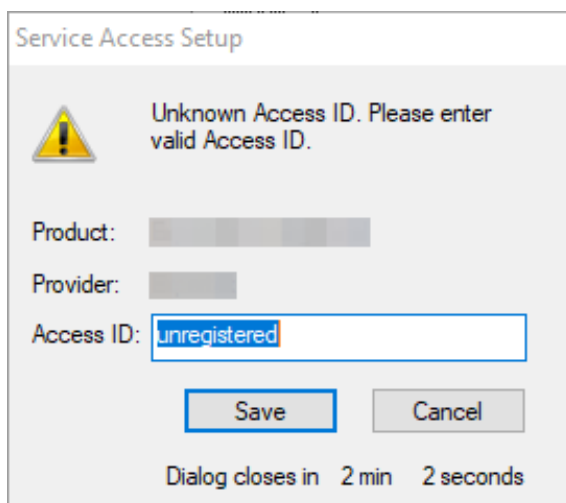
### Issue

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

### Type in your Access ID

The GridTrendMultiplier 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 GridTrendMultiplier 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*:



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.

## 5.12 How to Edit the EA Input Values



---

### Question

How can I edit or change the settings of the GridTrendMultiplier 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/click the chart which hosts the GridTrendMultiplier 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 GridTrendMultiplier EA input values in the appearing EA properties window
4. Click **OK** when editing is complete

## 5.13 Not Enough Memory For Bar History Or Indicator

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### Issue

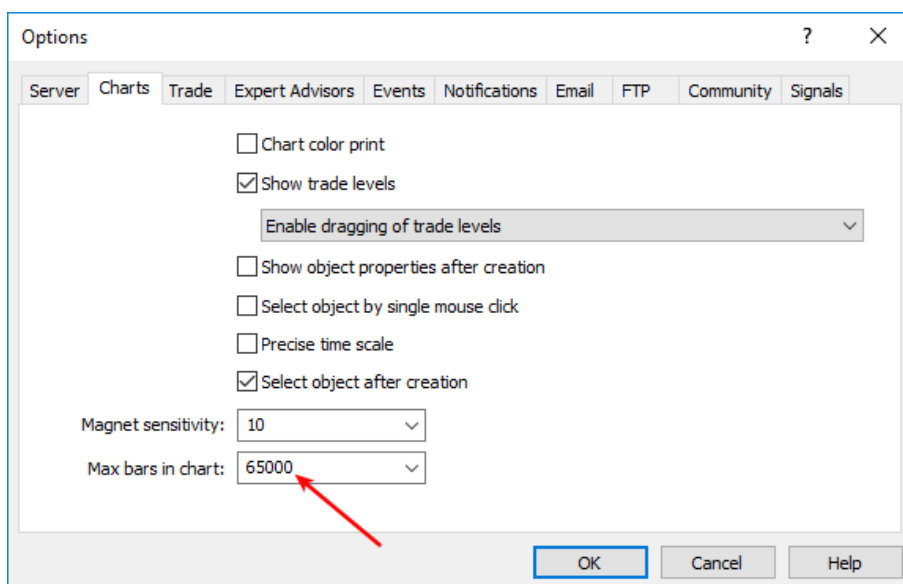
Some of the market bar history data or an indicator fails to load because the MT5 runs out of memory. An error message similar to the below is reported:

```
----- 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**:

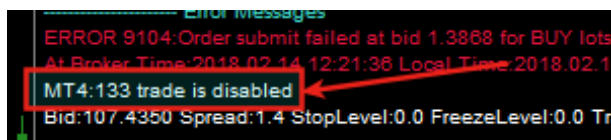


3. Attach the EA to the chart now. If the issue is still there then go back to the previous step and enter half of the previous values. Keep repeating these two steps - halving the values every time - until the EA attaches successfully.

## 5.14 No Trades Due to Trade Disabled

### Issue

The GTM EA was 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 MT5 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

1. Restart MT5 terminal (quit and start up) to see if the restart and reconnect to the broker resolves this.
2. Identify another name for the same pair (maybe with some extra suffix in the market name, like EURUSDcn) which is enabled for trading: attach the EA to another market.
3. Logging into your MT5 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 for their support to enable trading on the pair or account
  1. Your broker account may have reached some trade limits (e.g. overall maximum lots).
  2. Your broker may have put (temporarily) trading limitations on your account for some reason.
  3. Your broker may have to enable trading by EAs.

## 5.15 Backtest In Visual Mode Not Working

## Issue

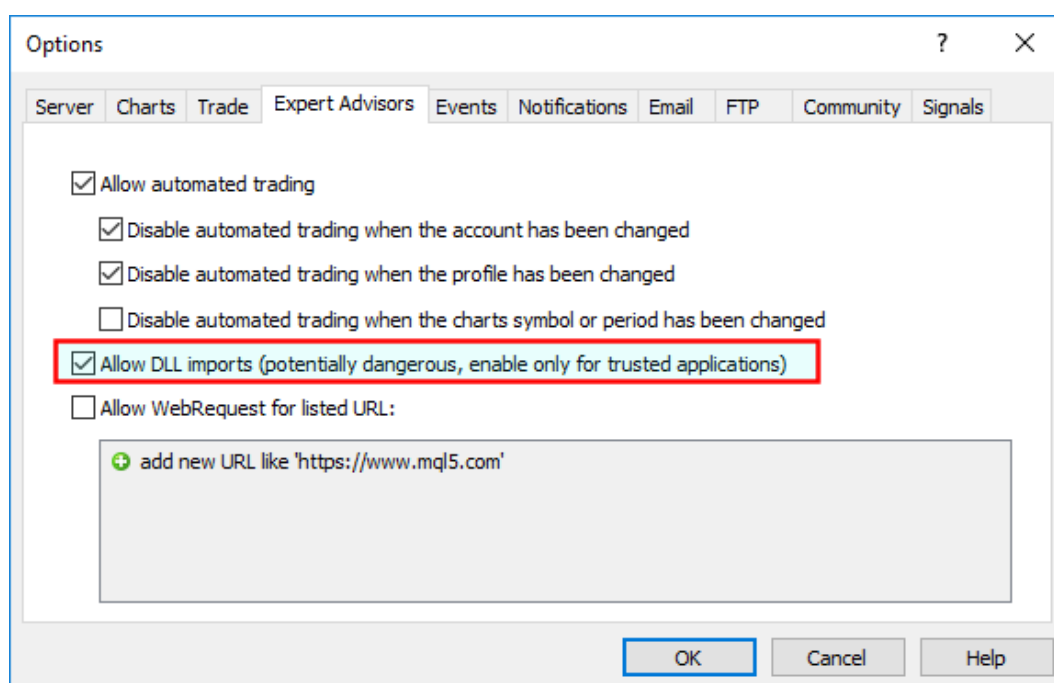
In the **Strategy Tester** using the visual mode **DLL imports not allowed** message appears on the chart. No result after the **Strategy Tester** finished its run.

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 GridTrendMultiplier 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.

## 5.16 Backtest Not Working

### Issue

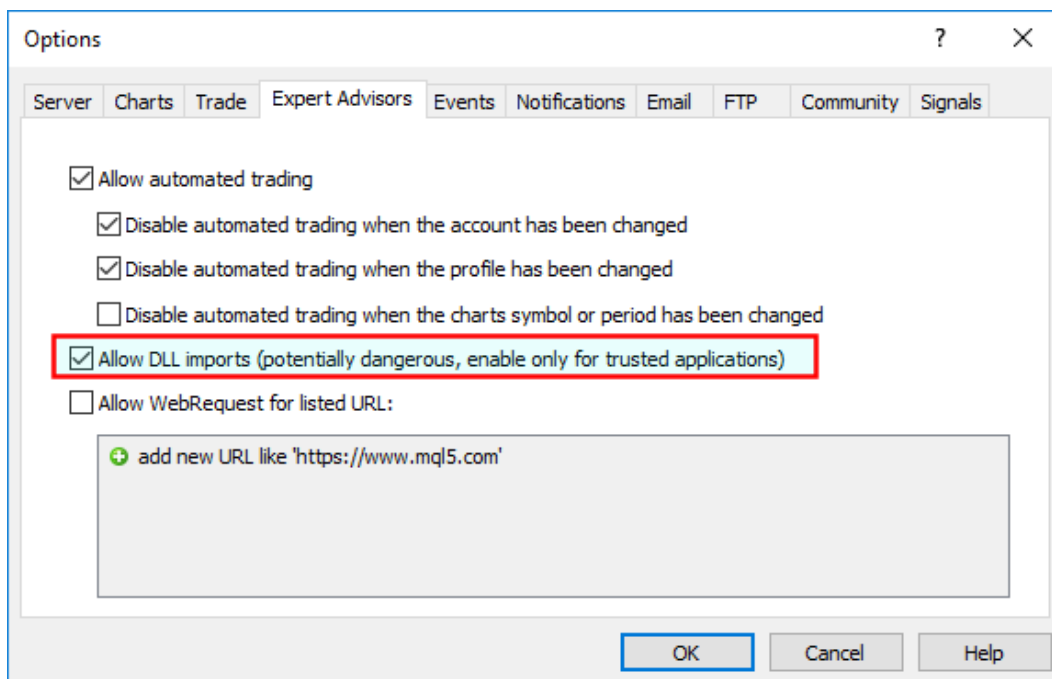
After the backtest finished no result showing.

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 GridTrendMultiplier 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 - MT5 no history data error messages

### Issue

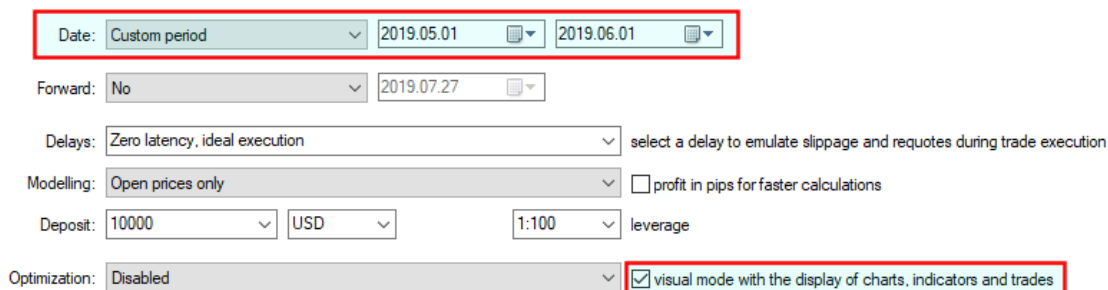
After the backtest finished no result showing.

Error message: The message is : ERROR 1101 Start - past exception - MT5 no history data

### Solution

The bar history database could be in inconsistent state. Try to run the backtest in visual mode, and start with a recent and short calendar period, say for this week. If that works then you may want to expand the calendar period, say to the last two weeks. In iterations then you could expand the calendar period until you hit the first issue of the bar history.

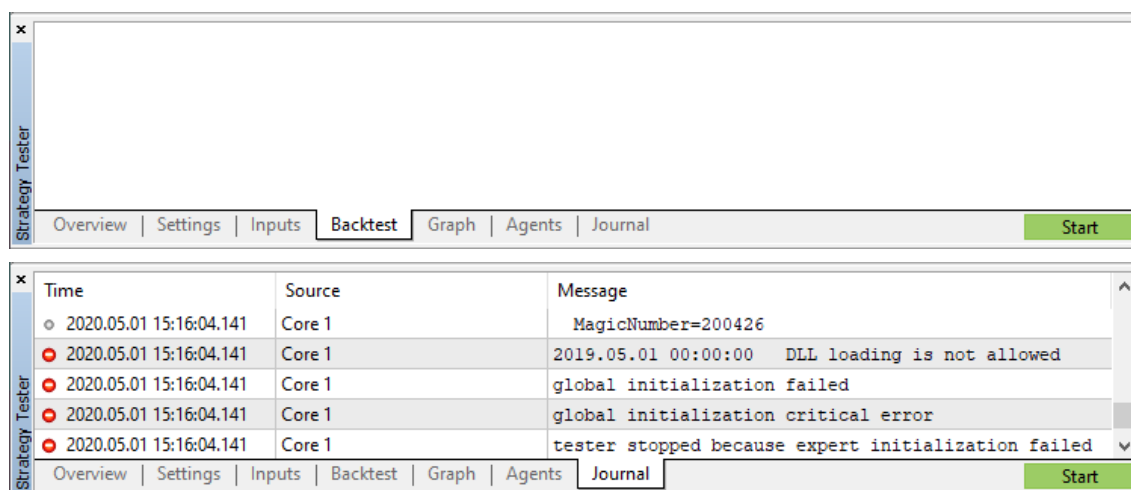
Use the MT5 Strategy Tester controls highlighted to run the visual backtest over a calendar period:



## 5.18 No Trades During Backtesting

### Issue

After the backtest finished no trades are showing.

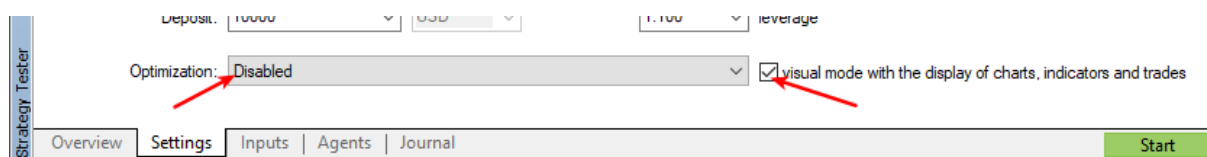


If you see no trades during backtesting then usually it is down to EA settings issue.

### Run a Backtest in Visual Mode

In order to see any settings issue with the the GridTrendMultiplier 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.

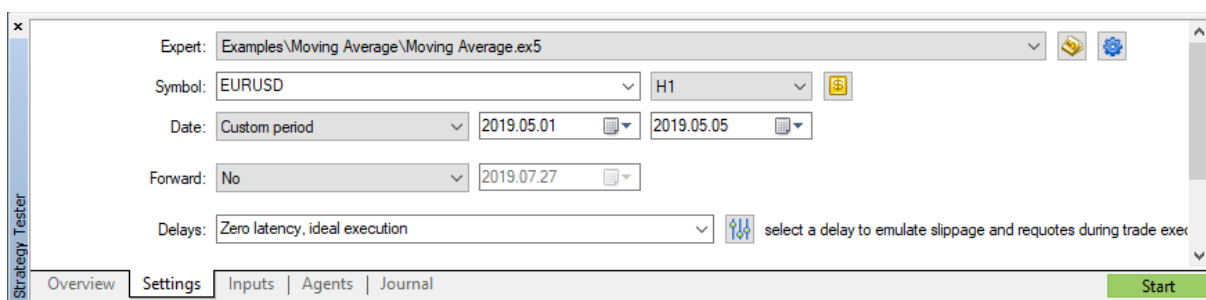
You may find these knowledge based topics useful to resolve them:

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

## 5.19 Visual Mode Checkbox Missing in Strategy Tester

### Issue

Visual mode checkbox is missing in the Strategy Tester.

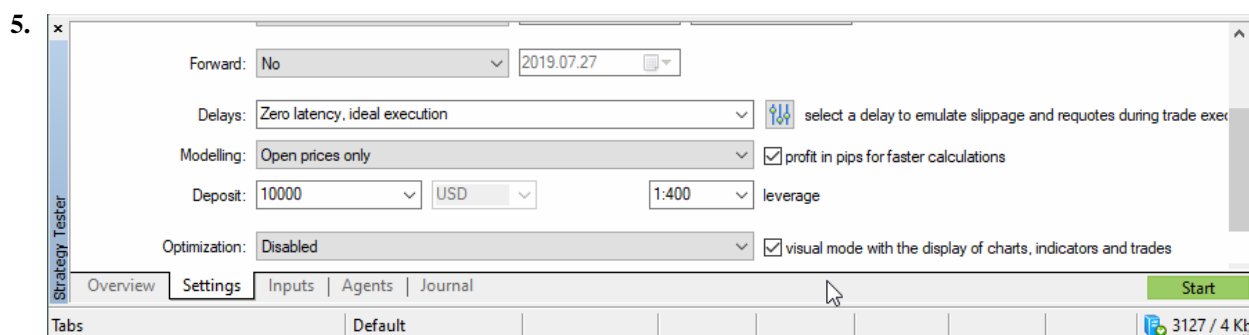


## Solution

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:

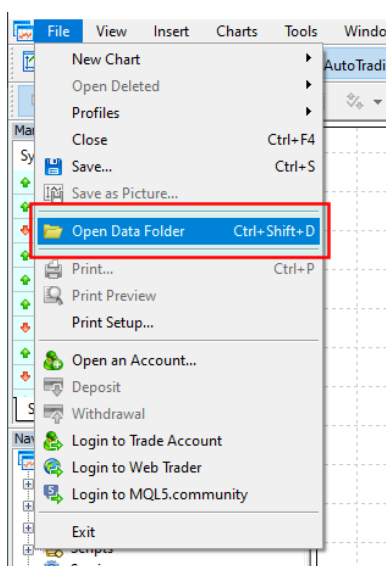
- Expert: Examples\Moving Average\Moving Average.ex5  
 Symbol: EURUSD H1  
 Date: Custom period 2019.05.01 2019.05.05  
 Forward: No 2019.07.27  
 Delays: Zero latency, ideal execution select a delay to emulate slippage and requotes during trade execution  
 Overview Settings Inputs Agents Journal Start
- Expert: Examples\Moving Average\Moving Average.ex5  
 Symbol: EURUSD H1  
 Date: Custom period 2019.05.01 2019.05.05  
 Forward: No 2019.07.27  
 Delays: Zero latency, ideal execution select a delay to emulate slippage and requotes during trade execution  
 Overview Settings Inputs Agents Journal Start
- Forward: No 2019.07.27  
 Delays: Zero latency, ideal execution select a delay to emulate slippage and requotes during trade execution  
 Modelling: Open prices only profit in pips for faster calculations  
 Deposit: 10000 USD 1:400 leverage  
 Optimization: Slow complete algorithm Disabled Slow complete algorithm Fast genetic based algorithm All symbols selected in MarketWatch Balance max  
 Overview Settings Inputs Agents Journal Start
- Forward: No 2019.07.27  
 Delays: Zero latency, ideal execution select a delay to emulate slippage and requotes during trade execution  
 Modelling: Open prices only profit in pips for faster calculations  
 Deposit: 10000 USD 1:400 leverage  
 Optimization: Disabled visual mode with the display of charts, indicators and trades  
 Overview Settings Inputs Agents Journal Start



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

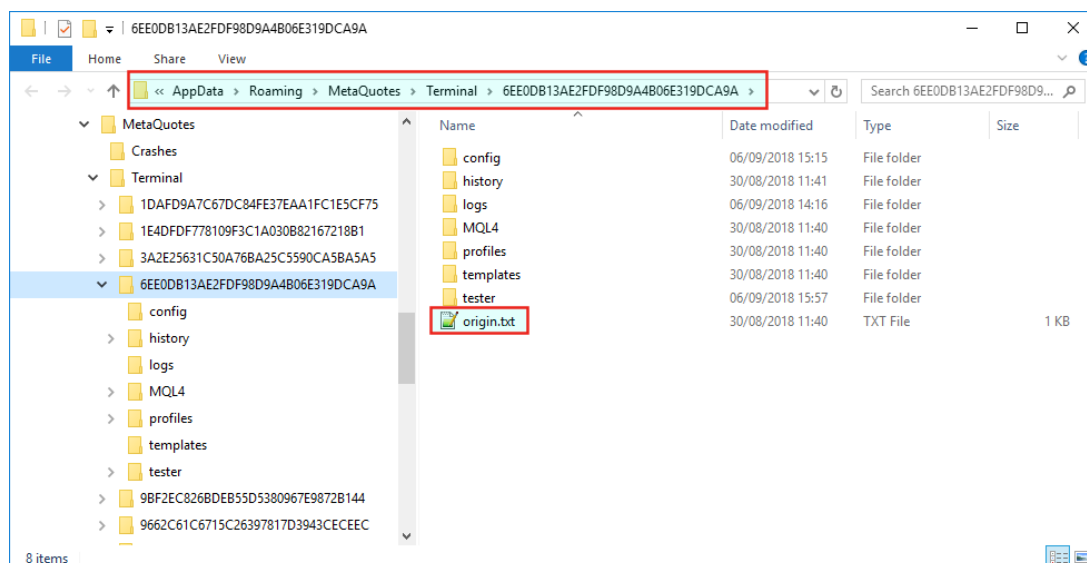
In this tutorial the name of *MetaTrader* is used as an example. Replace the *MetaTrader* with your broker specific MetaTrader name.

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



The menu opens a **File Explorer**.

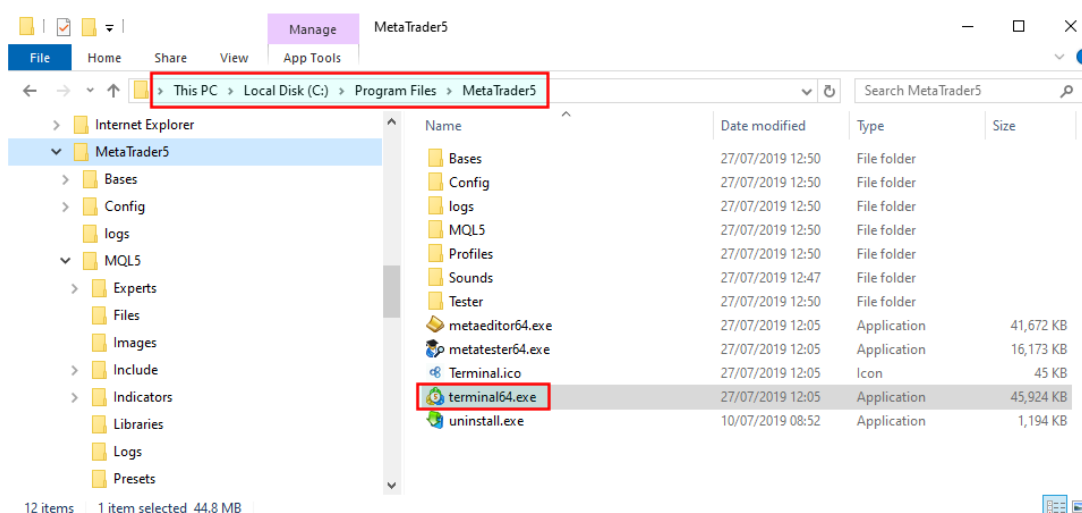
2. Close your MT5
3. Check the *File Explorer*
  - If the **File Explorer** shows a folder like this one below





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



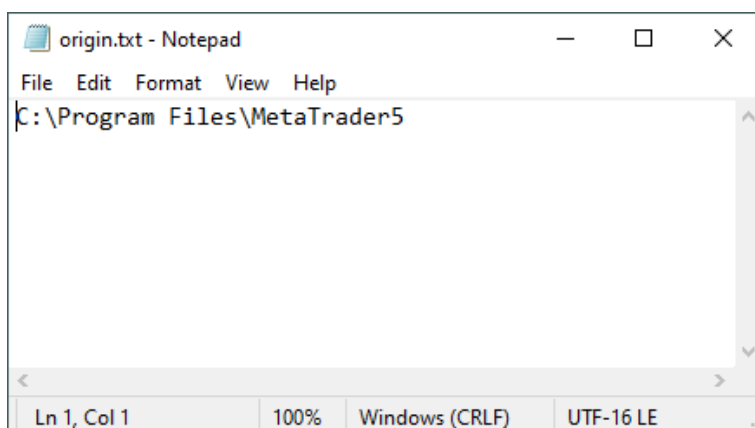
and you see the **terminal.exe** or **terminal** file go to the [non-standard installation](#) page.

### 5.20.1 Standard EA, Indicator installation

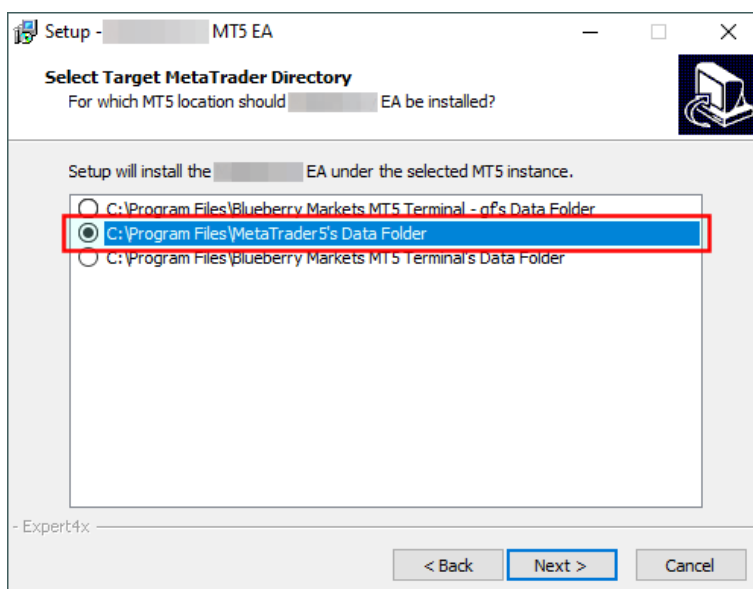
In the opened **File Explorer** the **origin.txt** or the **origin** file was found.

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

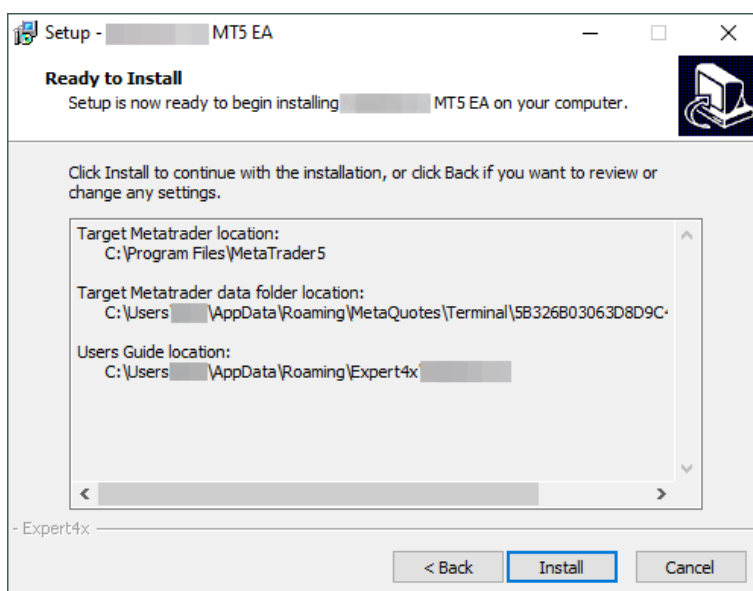
1. Double click the **origin.txt** file and take a note of the MetaTrader location.



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**



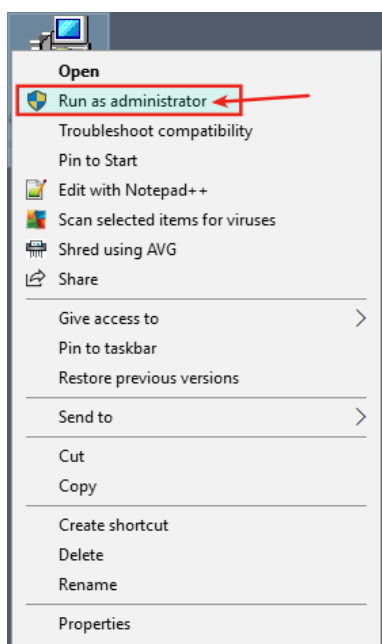
6. Check the EA or Indicator in the MetaTrader after installation
  - a) Start your MetaTrader
  - b) In the **Navigator panel** open the Expert Advisors section if you installed an EA or the Indicators section if you installed an Indicator and look for the EA or Indicator.

## 5.20.2 Non-standard EA, Indicator installation

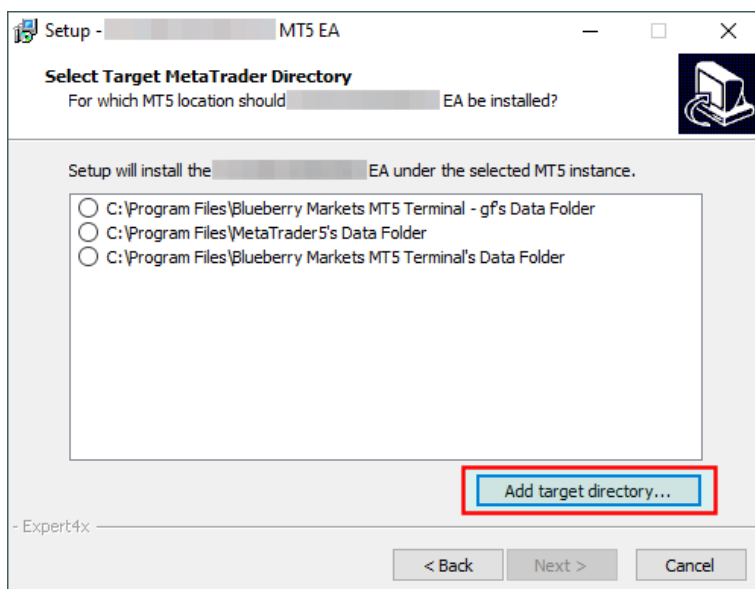
In the opened **File Explorer** the **terminal.exe** or **terminal** file was found.

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

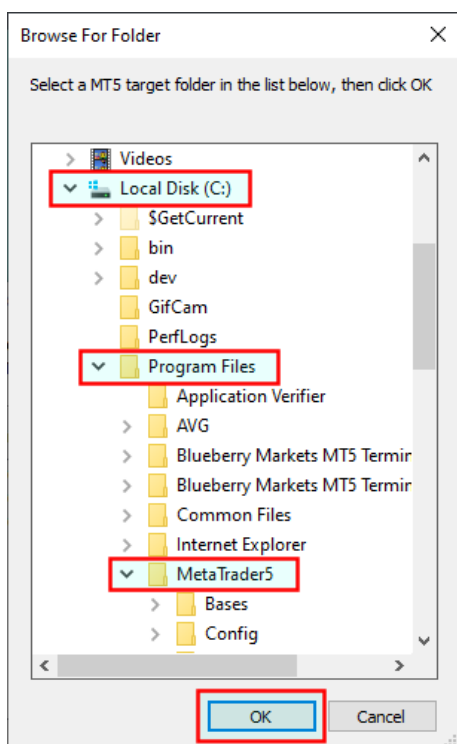
1. Right click on the name of the Setup application
2. Select **Run as administrator** (You may get a few security warning or you may need to type in the Windows administrator password)



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

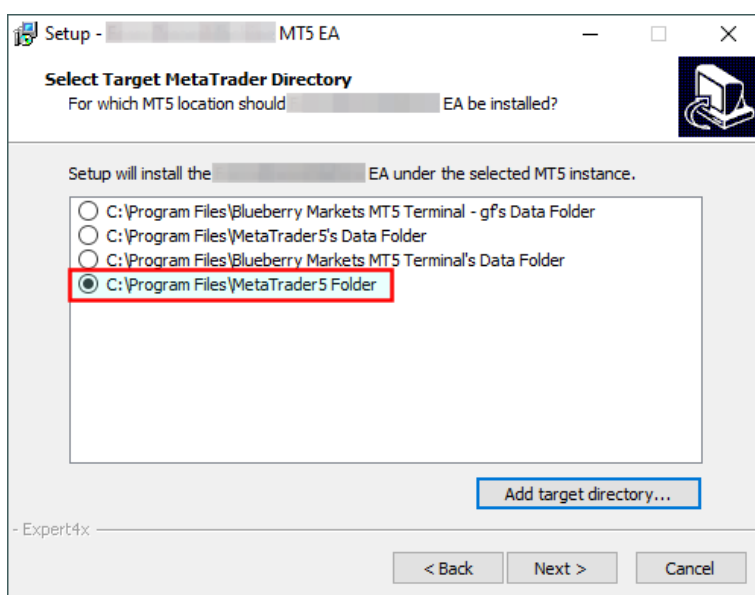


5. Navigate to your MetaTrader folder

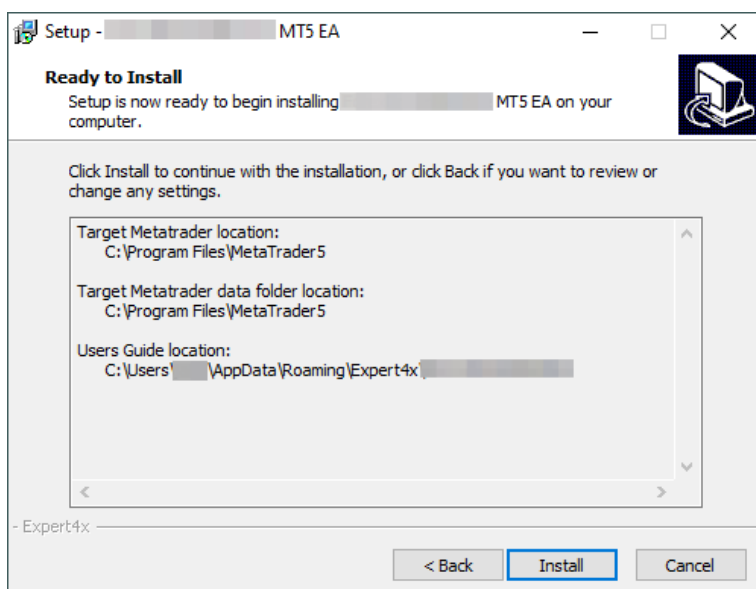


and click **OK**.

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**



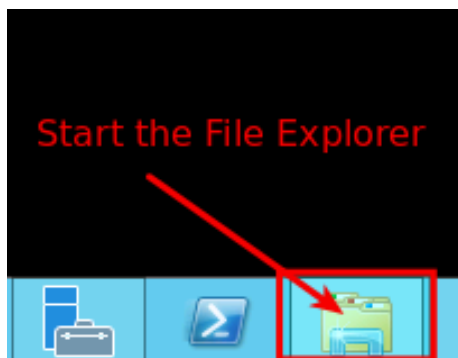
9. Check the EA or Indicator in the MetaTrader after installation
  - a) Start your MetaTrader
  - b) In the **Navigator panel** open the Expert Advisors section if you installed an EA or the Indicators section if you installed an Indicator and look for the EA or Indicator.

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

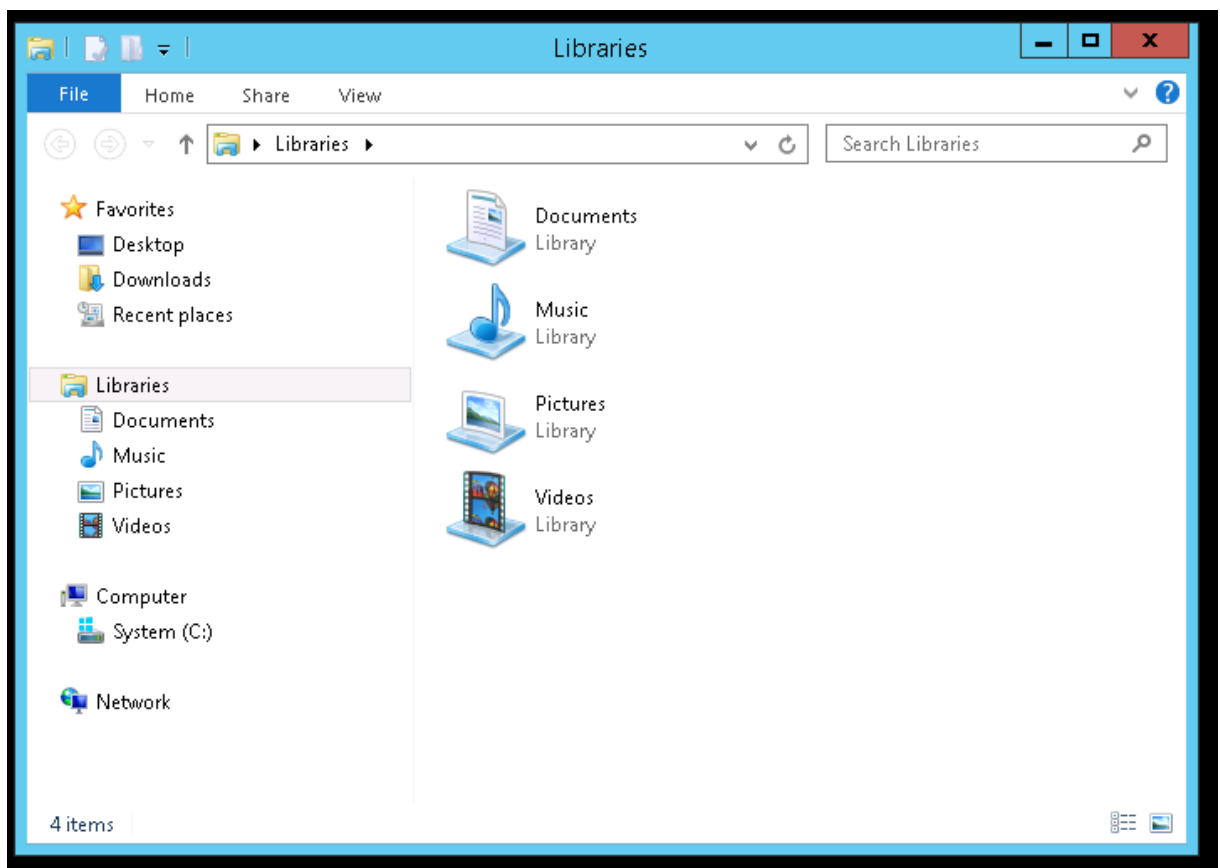
In this topic we guide you through the EA setup application download in VPS environment.

1. Start the **File Explorer**

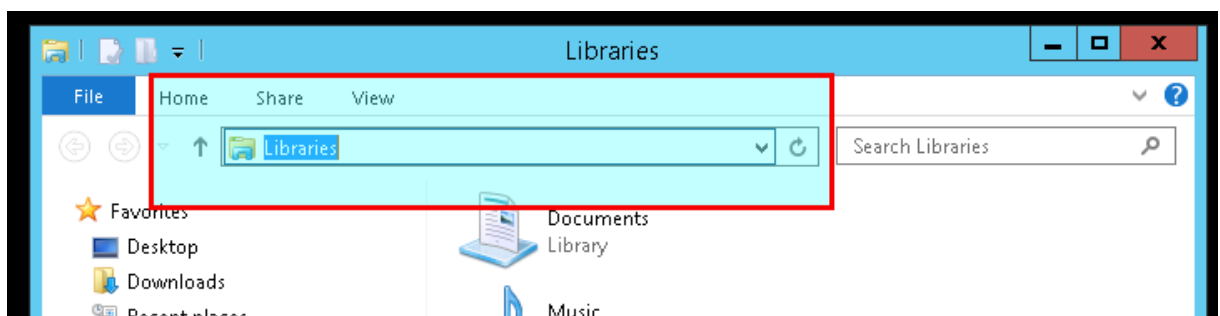
Click the **File Explorer**



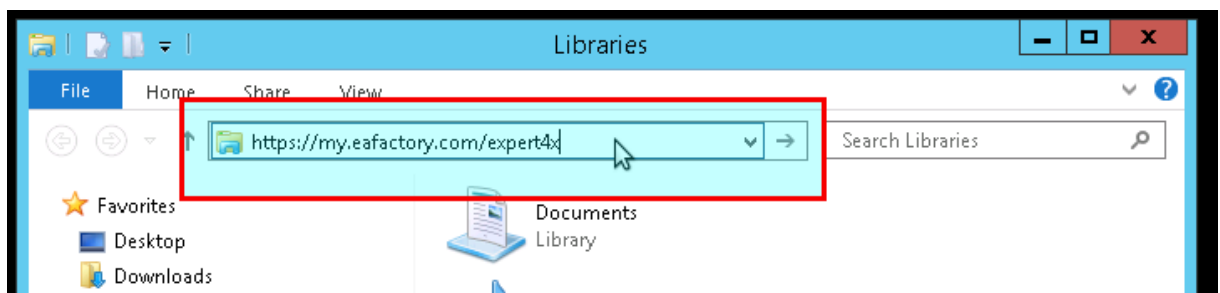
The **File Explorer** started.



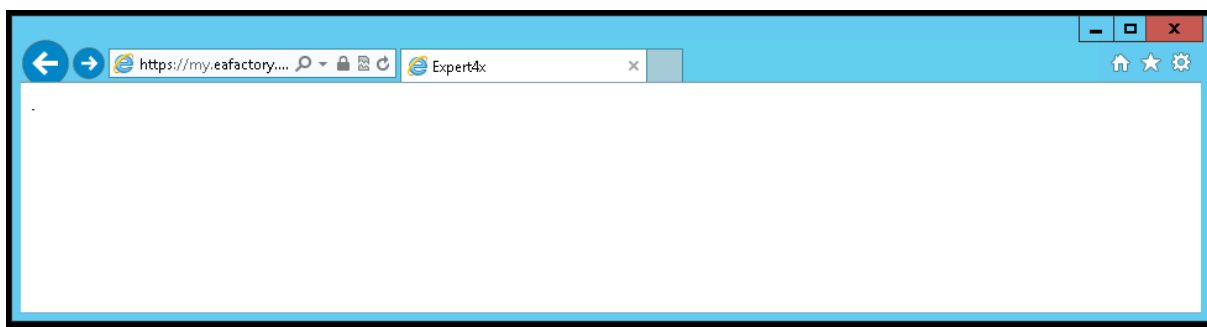
2. Select the address bar section



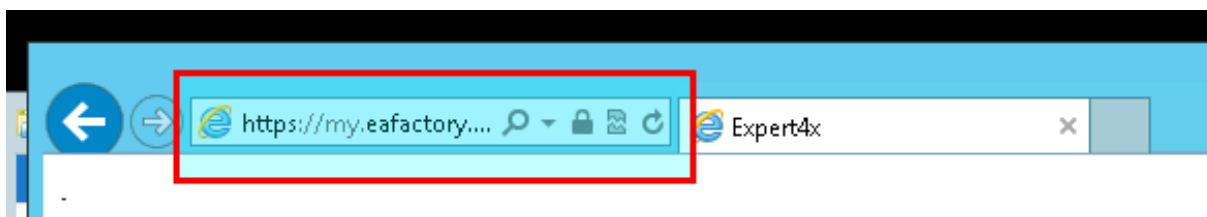
3. Type in: <https://my.eafactory.com/expert4x> and press Enter to start the Internet Explorer



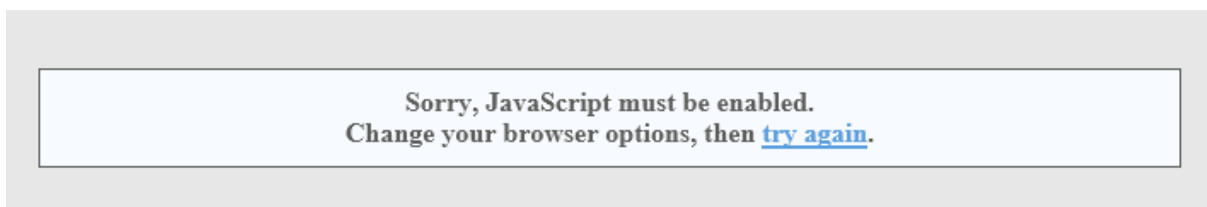
Did you get blank screen? As you see below:



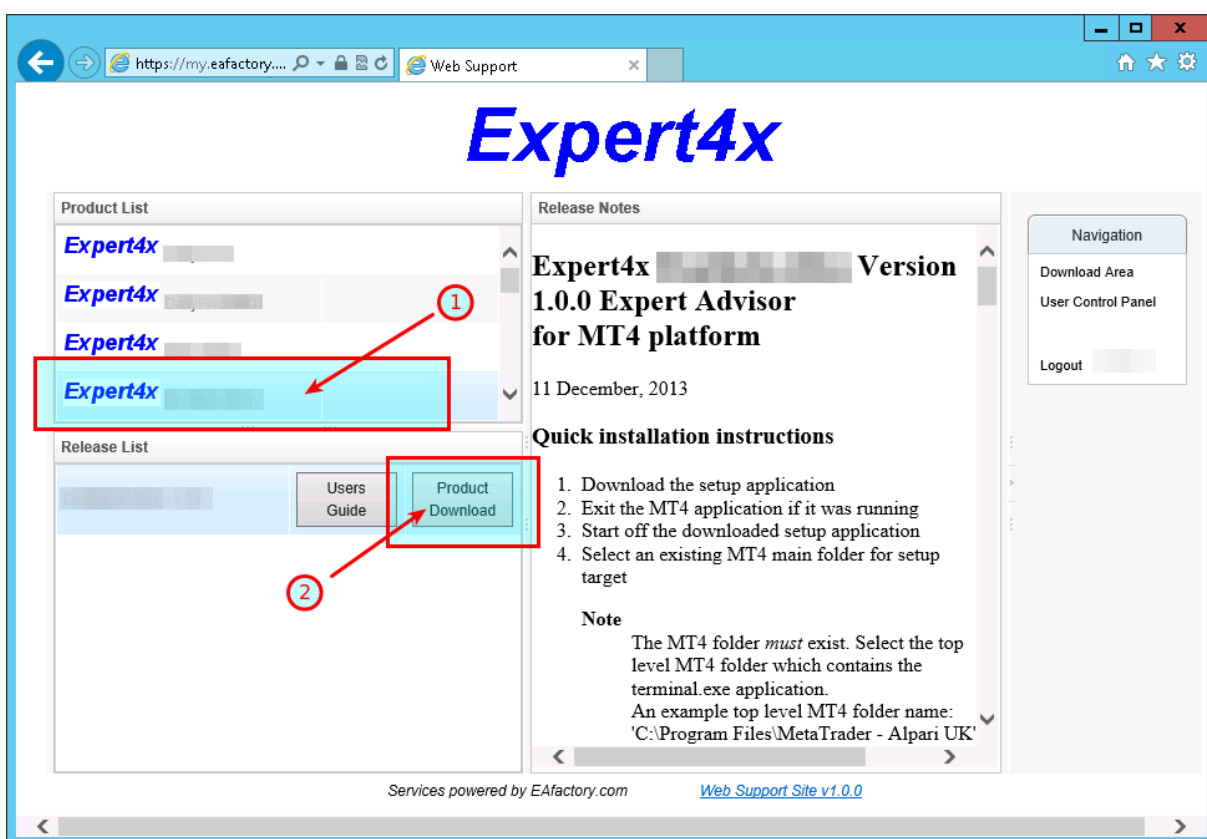
If yes, please select the address bar in the Internet Explorer and type in: <https://my.eafactory.com/UserInterface/index.zul?p=1>



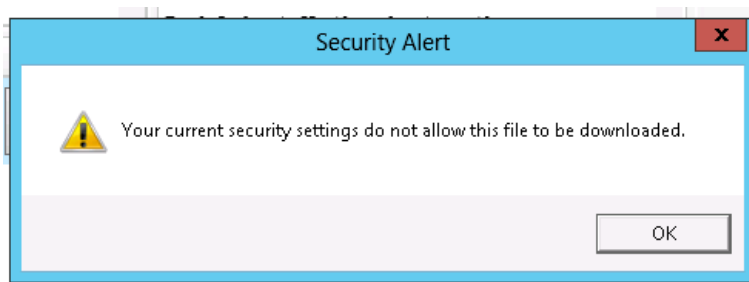
If you got this message below you may need to adjust temporary your [Internet security settings](#).



4. When the Web support Site is appeared please log in
5. Select the EA name from the **Product List** and click **Product Download** in the **Release List**

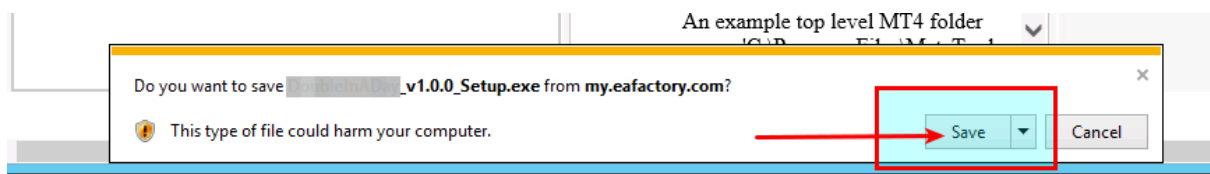


If you got this message below you may need to adjust temporary your Internet security settings to [enable downloads](#).



### Warning messages related to the download

- Do you want to save GridTrendMultiplier EA\_v4.11.0\_Setup.exe ...?



Click **Save** to resolve this warning

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

### GridTrendMultiplier EA\_v4.11.0\_Setup.exe is not commonly downloaded and could harm your computer

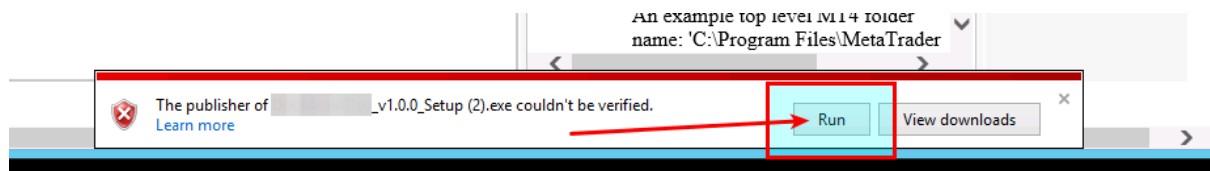
This message is a new features in Internet Explorer 9.0. IE 9.0 has increased user security.

*"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 GridTrendMultiplier EA EA:

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



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

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

## 5.21.1 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.

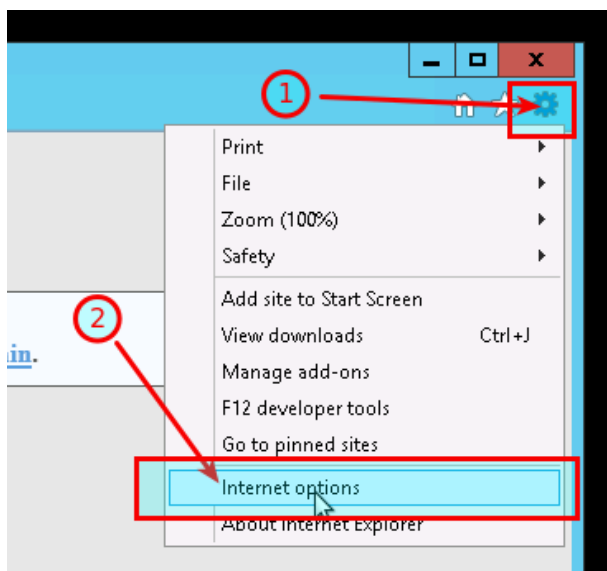


Sorry, JavaScript must be enabled.  
Change your browser options, then [try again](#).

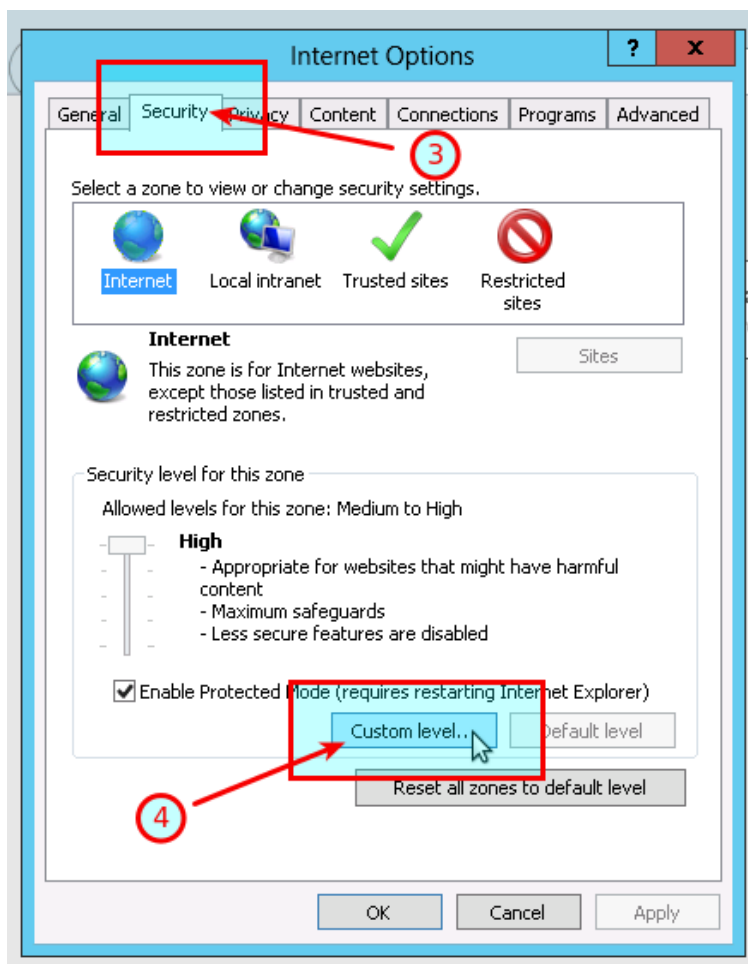
## JavaScripts are disabled in the Internet Explorer

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

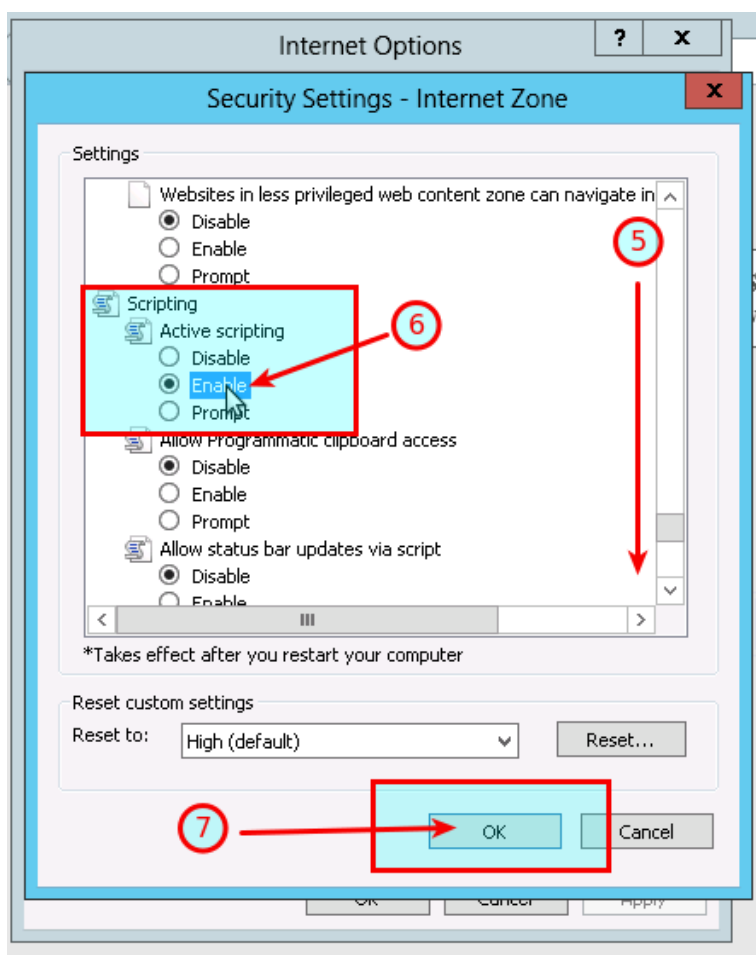
1. In the Internet Explorer click **Tools** icon
2. Select **Internet options**



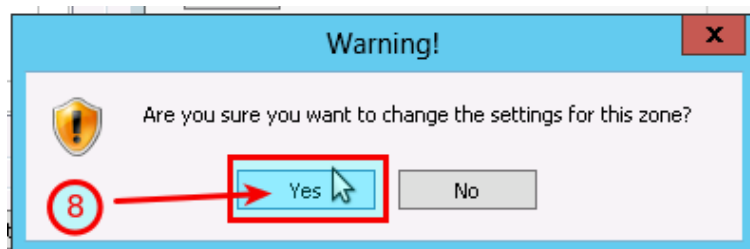
3. Go to the **Security** tab
4. Select **Custom level**



5. Scroll down until you see **Scripting**
6. Under the **Active scripting** select **Enable**
7. Click **OK**



8. Click **OK**

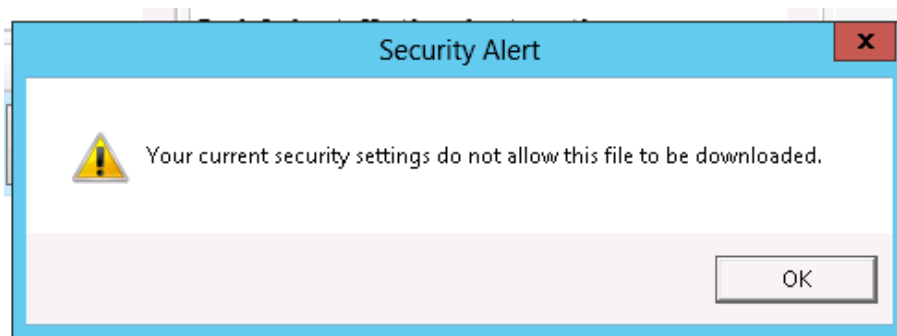


9. Refresh the <https://my.eafactory.com/UserInterface/index.zul?p=1> page and login

## 5.21.2 How to Enable Download in your Internet Explorer

### Issue

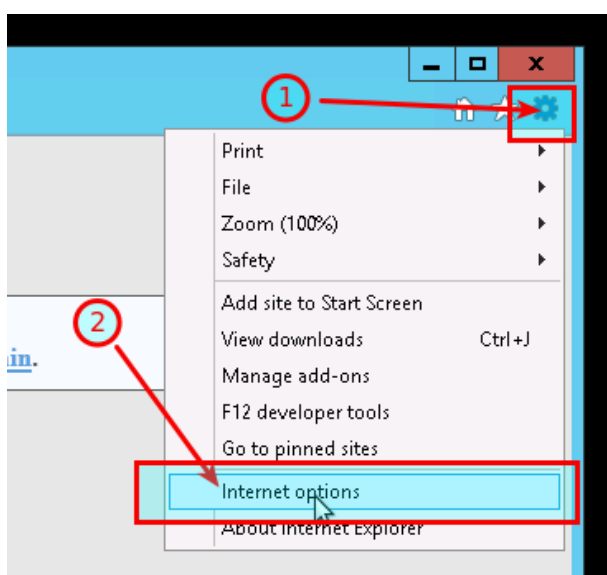
I tried to download the EA setup application in the **Internet Explorer** But the following error message popped up.



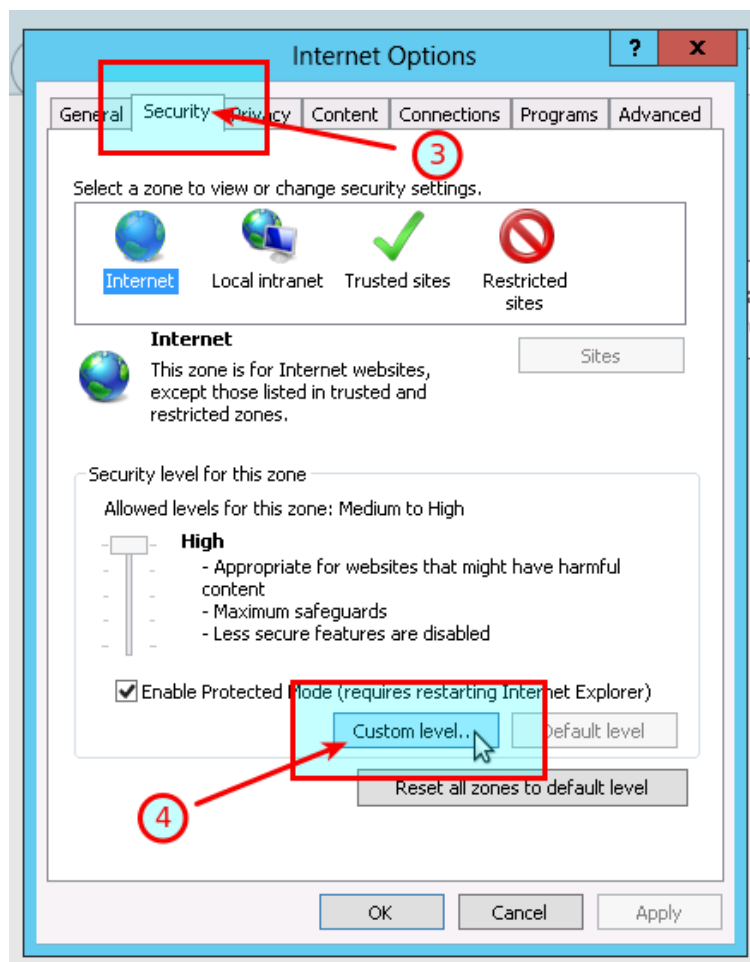
## File download is disabled in the Internet Explorer

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

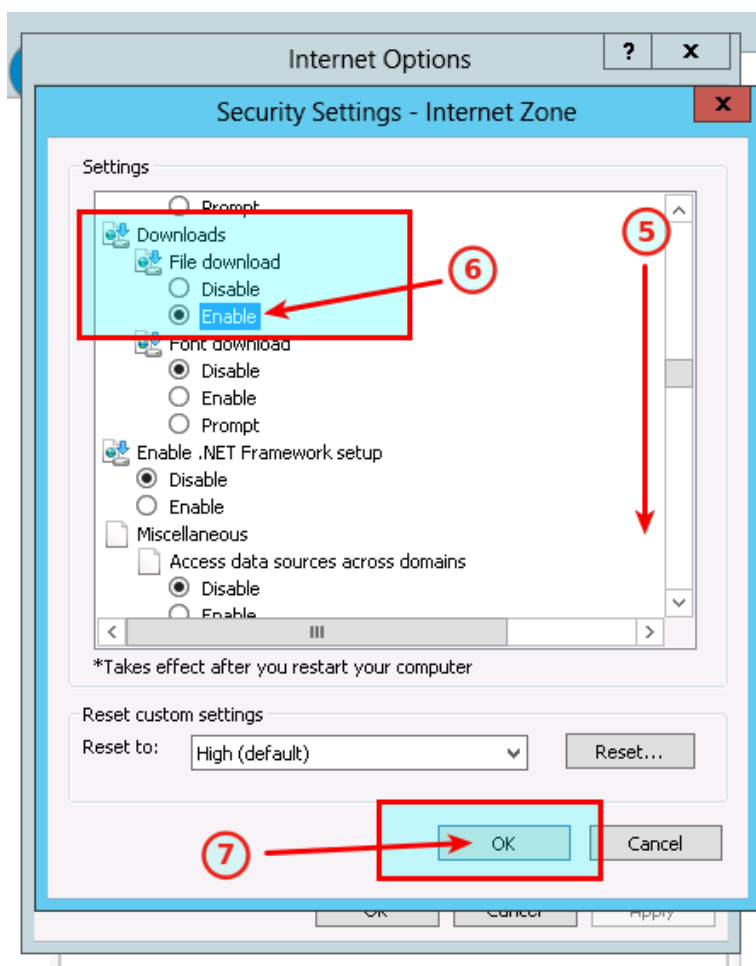
1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



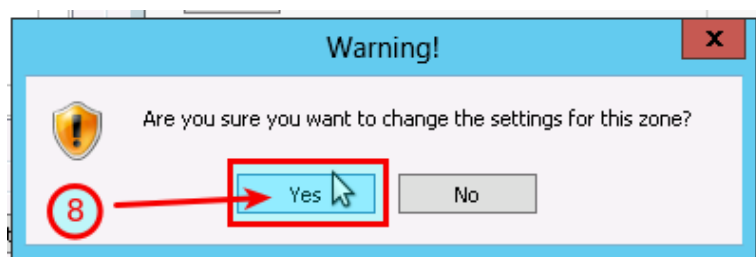
3. Go to the **Security** tab
4. Select **Custom level**



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



8. Click **OK**

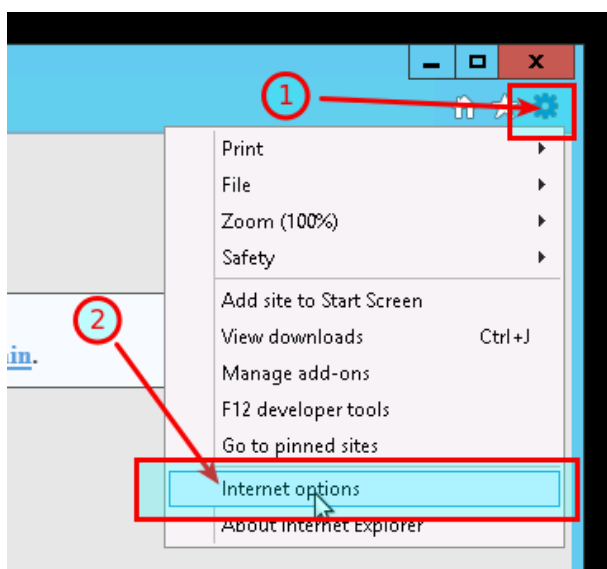


9. click the **Product Download** button again

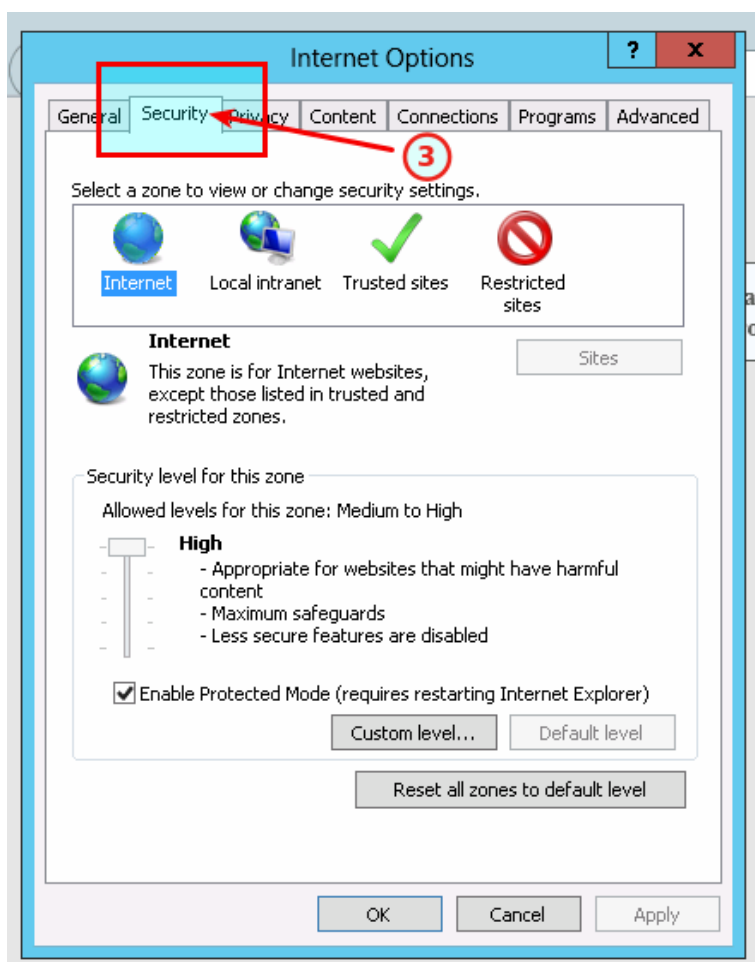
### 5.21.3 Clean up after the download in the Internet Explorer

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

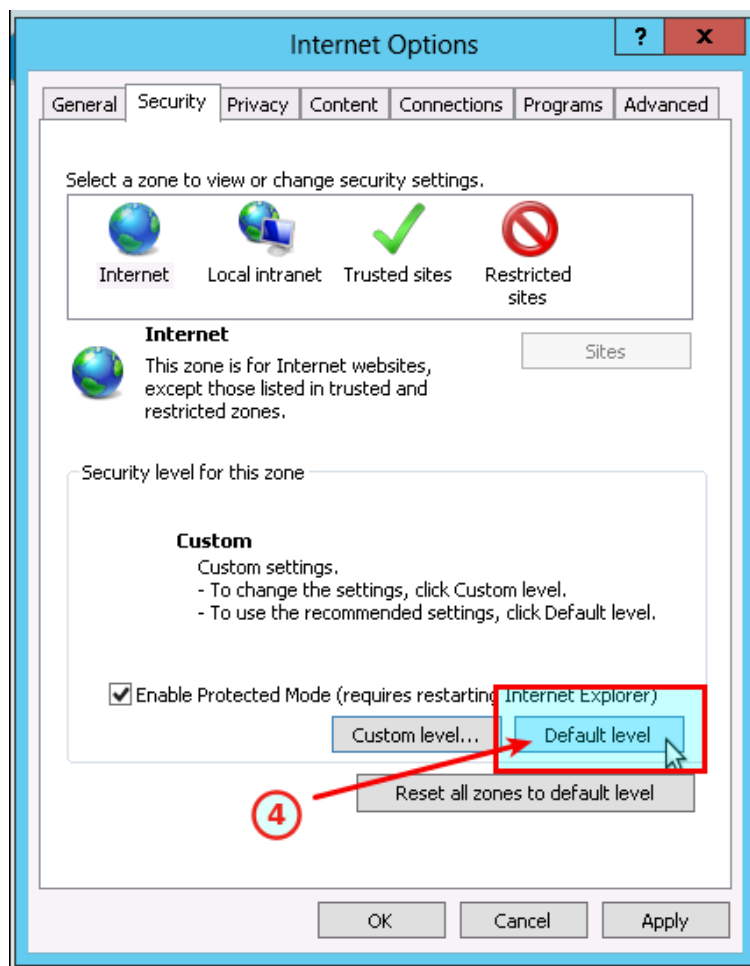
1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



### 3. Go to the **Security** tab

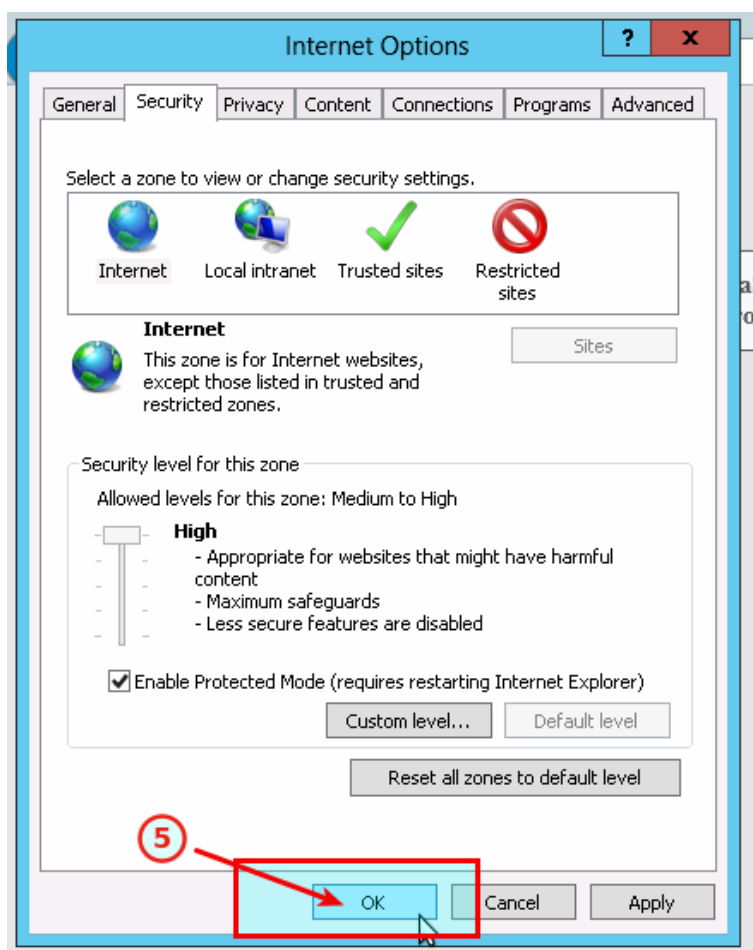


### 4. Click the **Default level**



5. Click **OK**

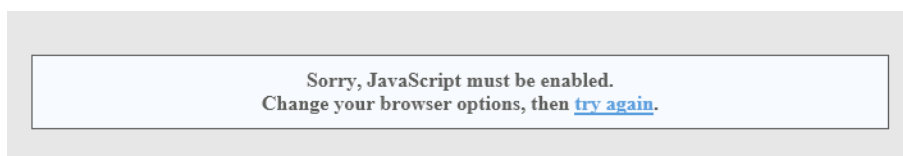




## 5.22 How to enable JavaScript in your Internet Explorer

### Issue

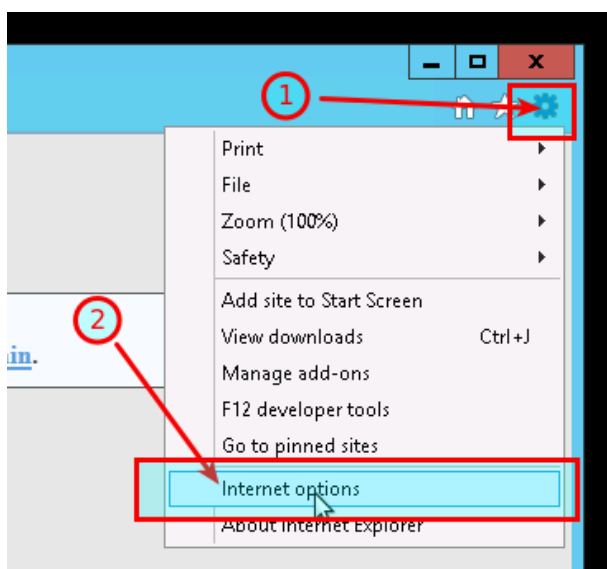
I tried to load the [Web Support Centre](#) in the **Internet Explorer** But the following error message popped up.



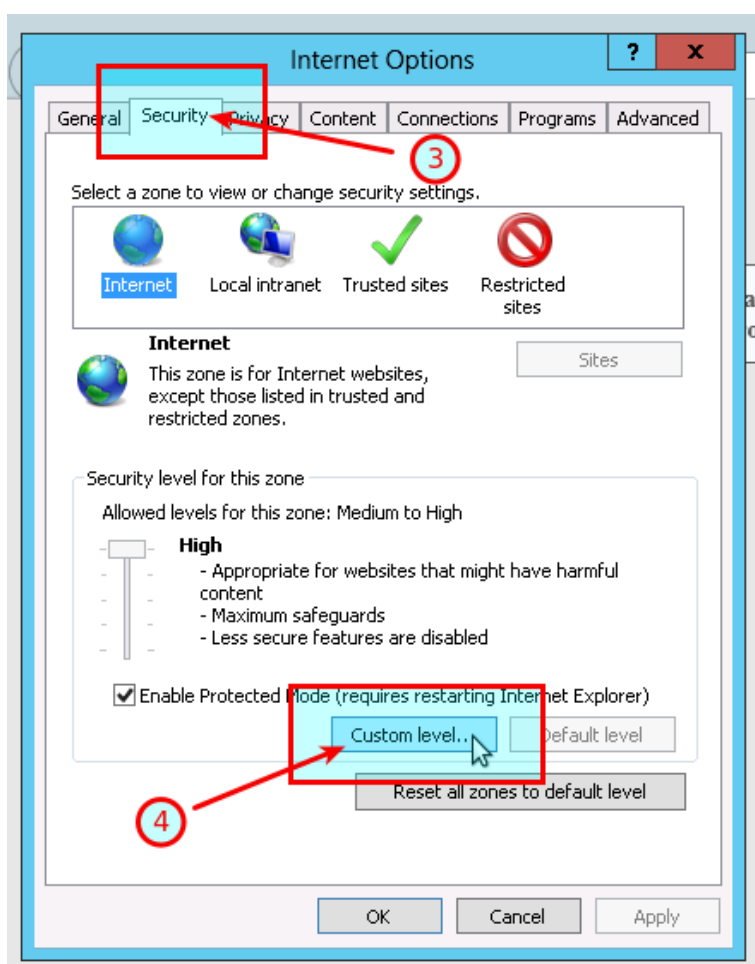
### JavaScripts are disabled in the Internet Explorer

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

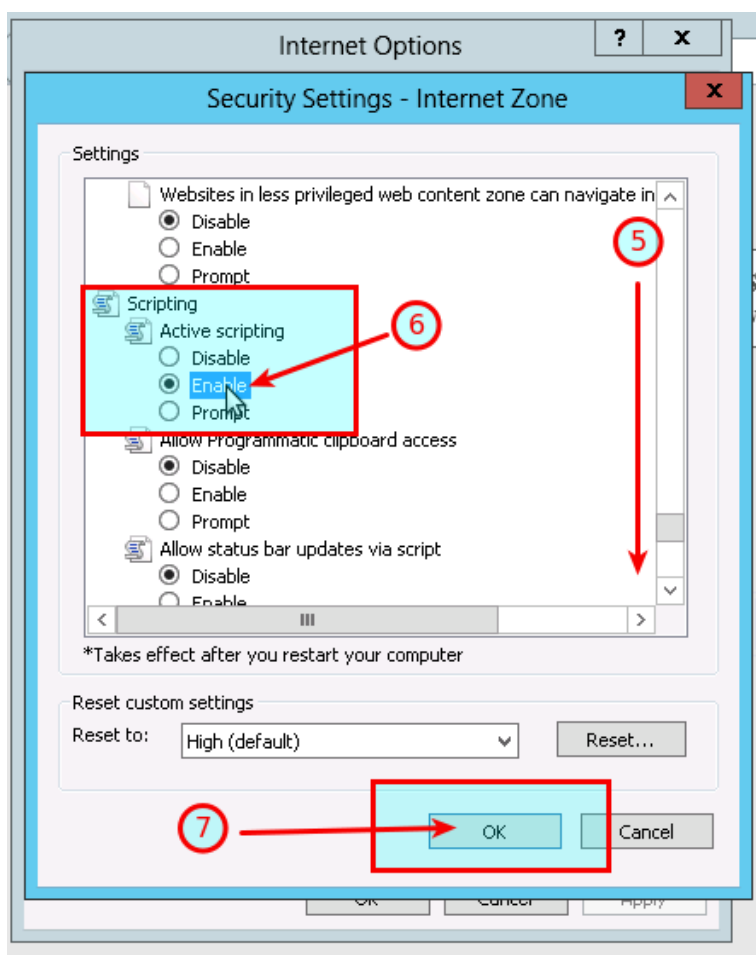
1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



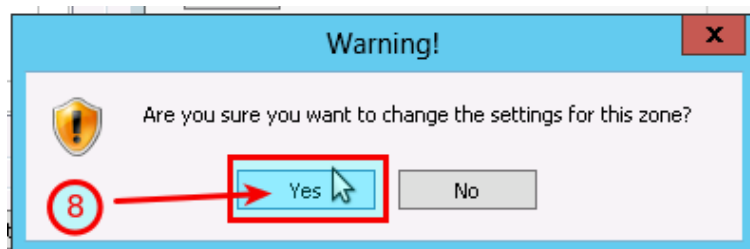
3. Go to the **Security** tab
4. Select **Custom level**



5. Scroll down until you see **Scripting**
6. Under the **Active scripting** select **Enable**
7. Click **OK**



8. Click **OK**

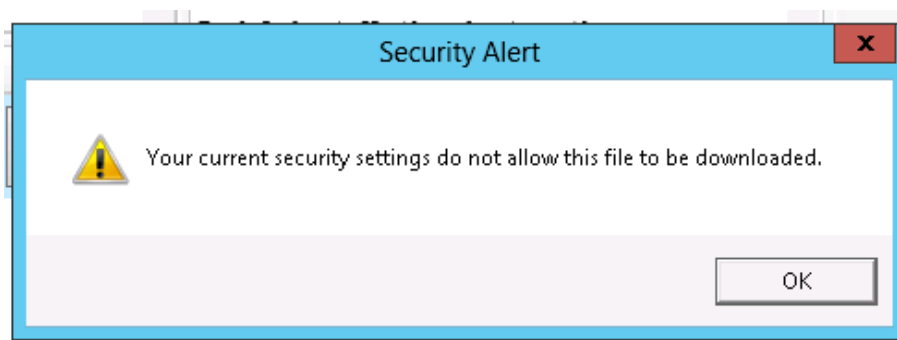


9. Refresh the <https://my.eafactory.com/UserInterface/index.zul?p=1> page and login

## 5.23 How to Enable Download in your Internet Explorer

### Issue

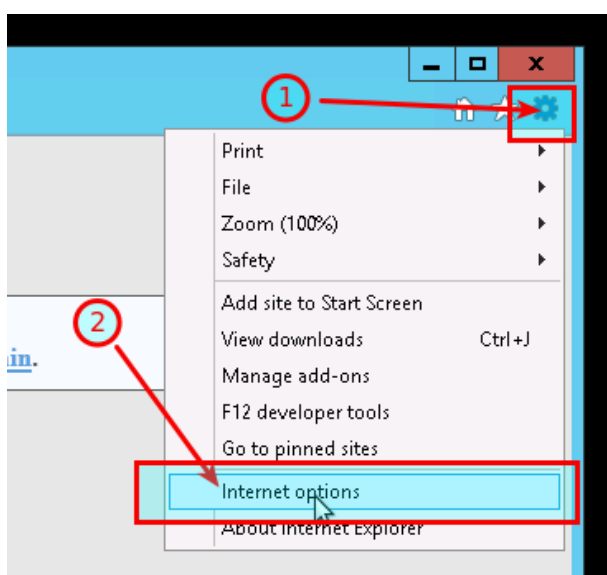
I tried to download the EA setup application in the **Internet Explorer** But the following error message popped up.



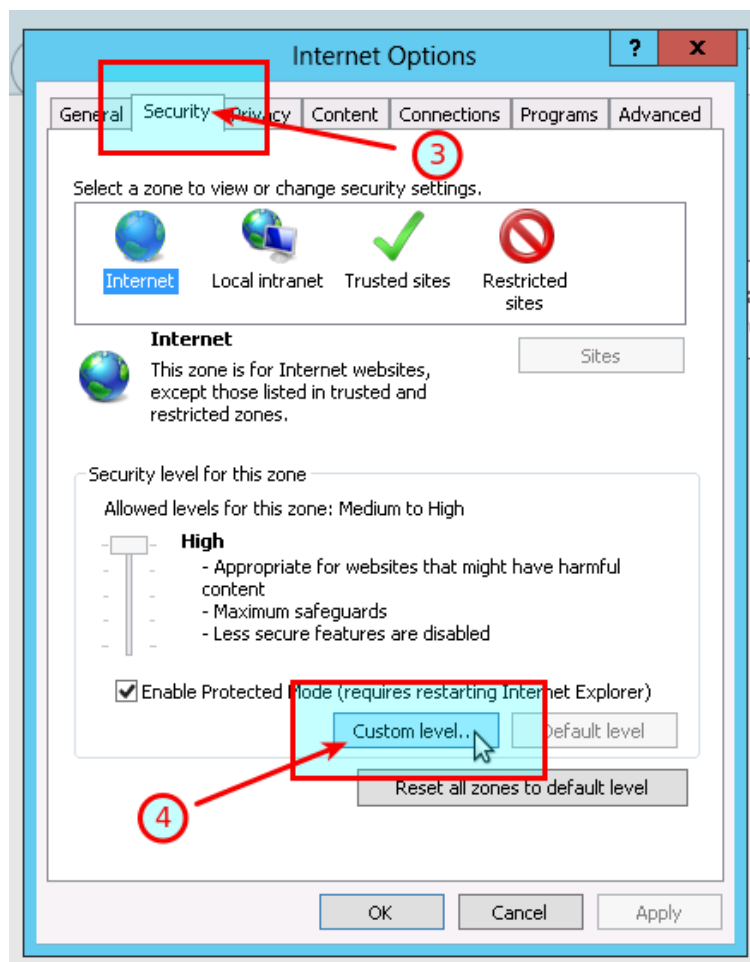
## File download is disabled in the Internet Explorer

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

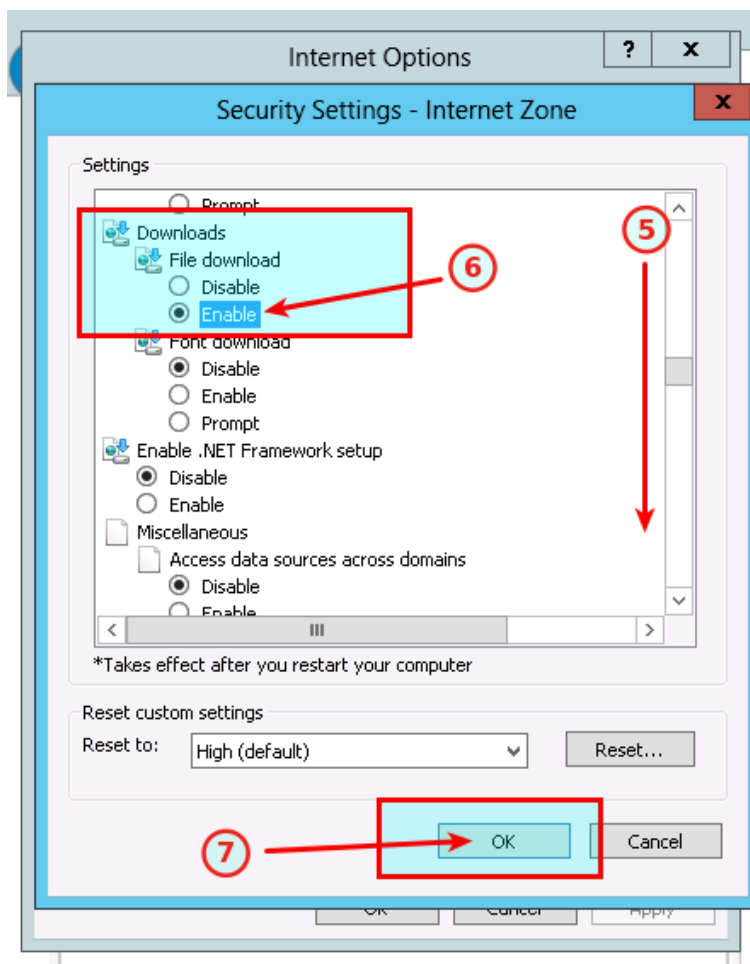
1. In the Inter Explorer click **Tools** icon
2. Select **Internet options**



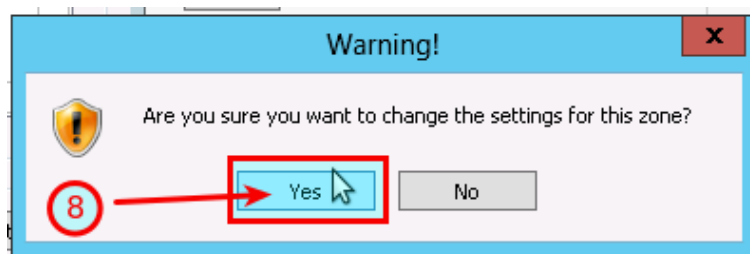
3. Go to the **Security** tab
4. Select **Custom level**



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 GridTrendMultiplier EA operational messages and resolution guide.

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>
50001	Error	'Max Open Ticket Count' must be 1 or higher for the selected Position Sizing Method.	Automated position sizing requires maximum ticket count to be defined. <a href="#">More...</a>
50002	Error	Position sizing failed, too small derived Stop Loss of <DerivedStopLoss>.	Automated position sizing derived stop loss is too small. <a href="#">More...</a>
50003	Error	Current price <Bid> is already on or above the configured limit <GridCloseOnOrAbovePrice>.	Market price is outside the upper limit allowed for grid trading. <a href="#">More...</a>
50004	Error	Current price <Bid> is already on or below the configured limit <GridCloseOnOrBelowPrice>.	Market price is outside the lower limit allowed for grid trading. <a href="#">More...</a>
50005	Error	BUY entry <BuyEntryPrice> is on or above the configured limit <GridCloseOnOrAbovePrice>.	The configured buy entry price is outside the upper limit allowed for grid trading. <a href="#">More...</a>
50006	Error	BUY entry <BuyEntryPrice> is on or below the configured limit <GridCloseOnOrBelowPrice>.	The configured buy entry price is outside the lower limit allowed for grid trading. <a href="#">More...</a>
50007	Error	SELL entry <SellEntryPrice> is on or above the configured limit <GridCloseOnOrAbovePrice>.	The configured sell entry price is outside the upper limit allowed for grid trading. <a href="#">More...</a>

Code	Severity	Message	Description
50008	Error	SELL entry <SellEntryPrice> is on or below the configured limit <GridCloseOnOrBelowPrice>.	The configured sell entry price is outside the lower limit allowed for grid trading. <a href="#">More...</a>
50110	Error	Aborted by user due to lack of trade history, EA is shut down (<GridStartTicketSell>, <GridStartTimeSell>, <GridStartTicketBuy>, <GridStartTimeBuy>, <LastMonthFound>).	User selected to stop EA due to lack of trade history. <a href="#">More...</a>
50112	Error	Missing grid initial tickets (Sell:<SellTicket>, Buy:<BuyTicket>) on broker account, EA is shut down. Press F7 and click OK for more instructions.	Initial grid start tickets are no longer available on broker account. <a href="#">More...</a>

## 6.1 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

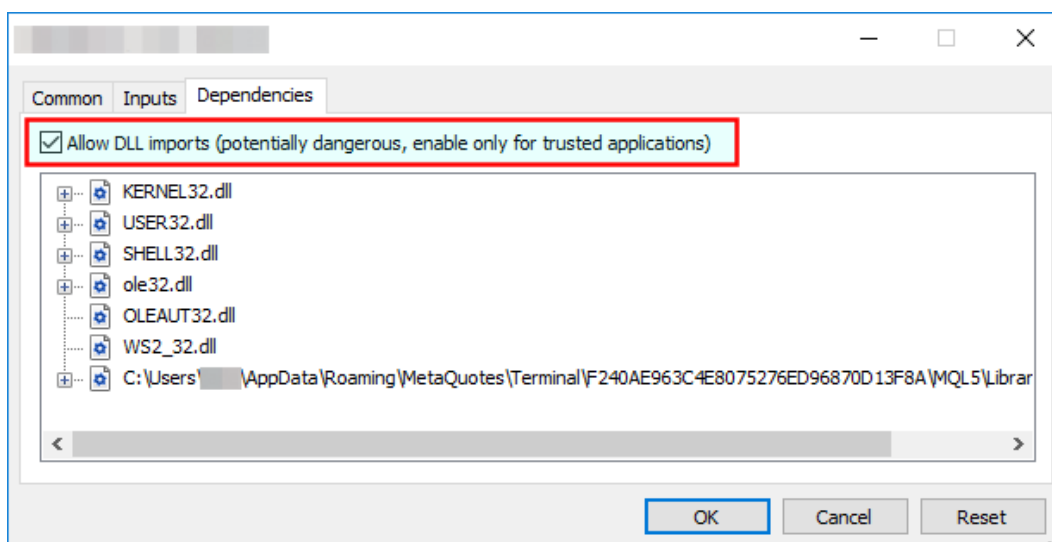
- The ea configuration does not allow for the load of DLLs.

#### 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**.





## 6.2 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 GridTrendMultiplier EA](#)
  - [Step-by-step Installation of Expert4x EAs and Indicators](#)

## 6.3 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.

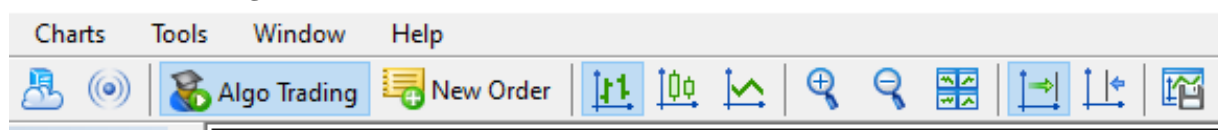
### Possible root cause

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



### Resolution

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




## 6.4 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.

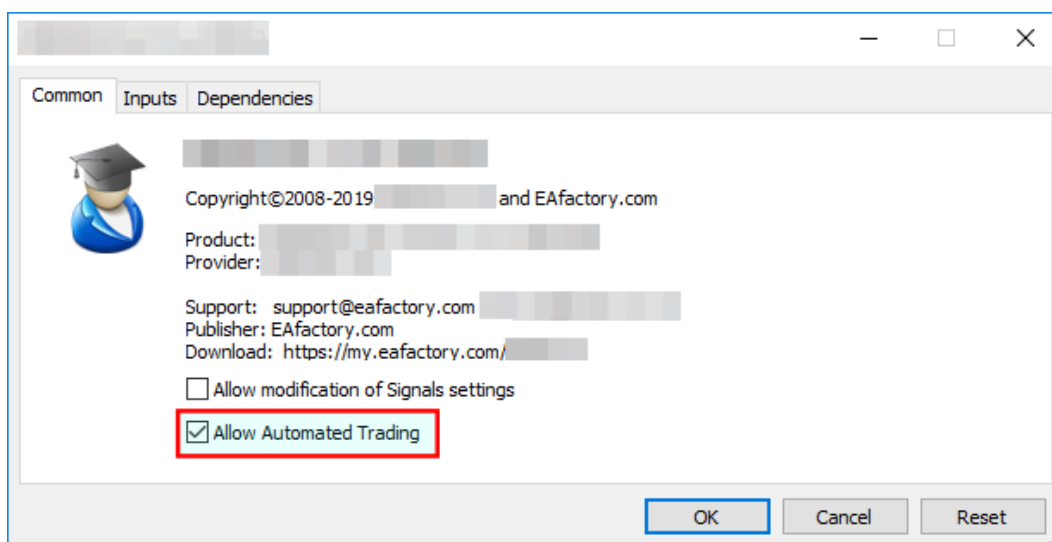
### Possible root cause

- 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**



## 6.5 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.

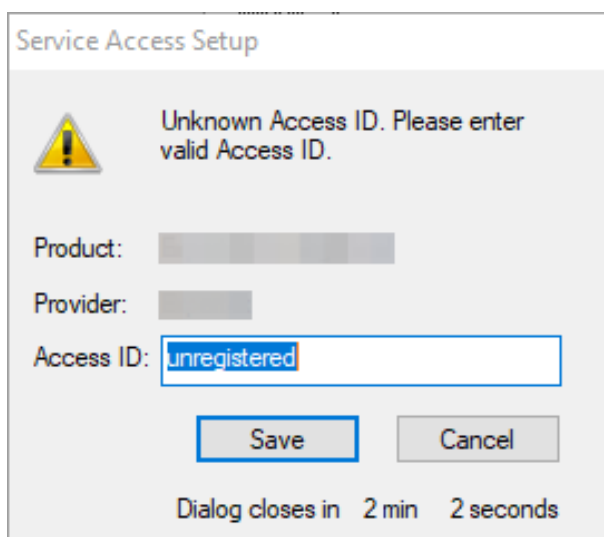
#### Possible root cause

- 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 GridTrendMultiplier EA is not yet purchased by the user.
- The GridTrendMultiplier EA was purchased, but not yet activated by the user.
- The GridTrendMultiplier EA was purchased or a trial started, but the licensed period (e.g. calendar days) has lapsed.
- The GridTrendMultiplier 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 GridTrendMultiplier 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 GridTrendMultiplier 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 GridTrendMultiplier instances, or purchase more licence at the [Web Support Centre](#).

## 6.6 Message 50001

---

Code	Severity	Message	Description
50001	Error	'Max Open Ticket Count' must be 1 or higher for the selected Position Sizing Method.	Automated position sizing requires maximum ticket count to be defined. <a href="#">More...</a>

### Maximum Open Ticket Count Too Low

#### Issue

The automated position sizing feature of the EA estimates the maximum loss based on the maximum number of open tickets allowed for a grid and the gap size. However, the *Max Open Ticket Count* is set to zero.

#### Possible root cause

- The *Position Sizing Method* is set to one of the 'Percent of Account Margin/Equity/Balance' while the *Max Open Ticket Count* is set to zero.

#### Resolution

Consider one of the following items to find resolution to the issue.

1. Keep the selected *Position Sizing Method* as it is, and enter value 1 or higher to *Max Open Ticket Count*.
2. Alternatively, select 'Manual Lot Size' for *Position Sizing Method* and enter the desired lot size to *BUY\_Lots* and *SELL\_Lots*. In this case the automated position sizing is turned off and the manual lot sizing is activated.

## 6.7 Message 50002

---

Code	Severity	Message	Description
50002	Error	Position sizing failed, too small derived Stop Loss of <DerivedStopLoss>.	Automated position sizing derived stop loss is too small. <a href="#">More...</a>

## Derived Stop Loss Too Small

### Issue

The automated position sizing feature of the EA estimates the maximum loss based on the maximum number of open tickets allowed for a grid and the gap size. However, either the *Max Open Ticket Count* or the *BUY Gap Size/SELL Gap Size* is set to zero.

### Possible root cause

- The *Position Sizing Method* is set to one of the 'Percent of Account Margin/Equity/Balance' while the *Max Open Ticket Count* or *BUY Gap Size/SELL Gap Size* is set to zero.

### Resolution

Consider one of the following items to find resolution to the issue.

- Keep the selected *Position Sizing Method* as it is, and enter value 1 or higher to *Max Open Ticket Count*, *BUY Gap Size* and *SELL Gap Size*.
- Alternatively, select 'Manual Lot Size' for *Position Sizing Method* and enter the desired lot size to *BUY\_Lots* and *SELL\_Lots*. In this case the automated position sizing is turned off and the manual lot sizing is activated.

## 6.8 Message 50003

Code	Severity	Message	Description
50003	Error	Current price <Bid> is already on or above the configured limit <GridCloseOnOrAbovePrice>.	Market price is outside the upper limit allowed for grid trading. <a href="#">More...</a>

## Price Already On Or Above Limit

### Issue

The EA does not start up because the market price is above the configured upper limit. This is to avoid flipping between start up a new grid and close it off immediately because the market price is on or above the limit triggering grid closure.

### Possible root cause

- The current market price is already on or above the configured upper limit *Close Grid On or Above Price*.

### Resolution

Adjust the value of *Close Grid On or Above Price* to be below the current market price.

- Attach the EA to a chart; or if already attached then select the chart and press F7.
- Go to the **Common** tab of the **Expert Property** window.
- Select the *Close Grid On or Above Price* entry, press F2 and enter the new value.
- Click **OK**.

## 6.9 Message 50004

Code	Severity	Message	Description
50004	Error	Current price <Bid> is already on or below the configured limit <GridCloseOnOrBelowPrice>.	Market price is outside the lower limit allowed for grid trading. <a href="#">More...</a>

## Price Already On Or Below Limit

### Issue

The EA does not start up because the market price is below the configured lower limit. This is to avoid flipping between start up a new grid and close it off immediately because the market price is on or below the limit triggering grid closure.

### Possible root cause

- The current market price is already on or below the configured lower limit *Close Grid On or Below Price*.

### Resolution

Adjust the value of *Close Grid On or Below Price* to be above the current market price.

1. Attach the EA to a chart; or if already attached then select the chart and press F7.
2. Go to the **Common** tab of the **Expert Property** window.
3. Select the *Close Grid On or Below Price* entry, press F2 and enter the new value.
4. Click **OK**.

## 6.10 Message 50005

---

Code	Severity	Message	Description
50005	Error	BUY entry <BuyEntryPrice> is on or above the configured limit <GridCloseOnOrAbovePrice>.	The configured buy entry price is outside the upper limit allowed for grid trading. <a href="#">More...</a>

## Buy Entry Price On Or Above Limit

### Issue

The EA does not start up because the configured buy entry price is on or above the *Close Grid On or Above Price*. This is to avoid flipping between start up a new grid and close it off immediately because the market price will be on or above the limit triggering grid closure.

### Possible root cause

- The configured buy entry price is on or above the configured upper limit *Close Grid On or Above Price*.

### Resolution

Adjust the value of *BUY Initial Entry Price* to be below the *Close Grid On or Above Price*.

1. Attach the EA to a chart; or if already attached then select the chart and press F7.
2. Go to the **Common** tab of the **Expert Property** window.
3. Select the *BUY Initial Entry Price* entry, press F2 and enter the new value.
4. Click **OK**.

## 6.11 Message 50006

---

Code	Severity	Message	Description
50006	Error	BUY entry <BuyEntryPrice> is on or below the configured limit <GridCloseOnOrBelowPrice>.	The configured buy entry price is outside the lower limit allowed for grid trading. <a href="#">More...</a>

## Buy Entry Price On Or Below Limit

### Issue

The EA does not start up because the configured buy entry price is on or below the *Close Grid On or Below Price*. This is to avoid flipping between start up a new grid and close it off immediately because the market price will be on or below the limit triggering grid closure.

### Possible root cause

- The configured buy entry price is on or below the configured lower limit *Close Grid On or Below Price*.

### Resolution

Adjust the value of *BUY Initial Entry Price* to be below the *Close Grid On or Below Price*.

1. Attach the EA to a chart; or if already attached then select the chart and press F7.
2. Go to the **Common** tab of the **Expert Property** window.
3. Select the *BUY Initial Entry Price* entry, press F2 and enter the new value.
4. Click **OK**.

## 6.12 Message 50007

---

Code	Severity	Message	Description
50007	Error	SELL entry <SellEntryPrice> is on or above the configured limit <GridCloseOnOrAbovePrice>.	The configured sell entry price is outside the upper limit allowed for grid trading. <a href="#">More...</a>

## Sell Entry Price On Or Above Limit

### Issue

The EA does not start up because the configured sell entry price is on or above the *Close Grid On or Above Price*. This is to avoid flipping between start up a new grid and close it off immediately because the market price will be on or above the limit triggering grid closure.

### Possible root cause

- The configured sell entry price is on or above the configured upper limit *Close Grid On or Above Price*.

### Resolution

Adjust the value of *SELL Initial Entry Price* to be below the *Close Grid On or Above Price*.

1. Attach the EA to a chart; or if already attached then select the chart and press F7.
2. Go to the **Common** tab of the **Expert Property** window.
3. Select the *SELL Initial Entry Price* entry, press F2 and enter the new value.
4. Click **OK**.

## 6.13 Message 50008

---

Code	Severity	Message	Description
50008	Error	SELL entry <SellEntryPrice> is on or below the configured limit <GridCloseOnOrBelowPrice>.	The configured sell entry price is outside the lower limit allowed for grid trading. <a href="#">More...</a>

## Sell Entry Price On Or Below Limit

### Issue

The EA does not start up because the configured sell entry price is on or below the *Close Grid On or Below Price*. This is to avoid flipping between start up a new grid and close it off immediately because the market price will be on or below the limit triggering grid closure.

### Possible root cause

- The configured sell entry price is on or below the configured lower limit *Close Grid On or Below Price*.

### Resolution

Adjust the value of *SELL Initial Entry Price* to be below the *Close Grid On or Below Price*.

1. Attach the EA to a chart; or if already attached then select the chart and press F7.
2. Go to the **Common** tab of the **Expert Property** window.
3. Select the *SELL Initial Entry Price* entry, press F2 and enter the new value.
4. Click **OK**.

## 6.14 Message 50110

Code	Severity	Message	Description
50110	Error	Aborted by user due to lack of trade history, EA is shut down (<GridStartTicketSell>, <GridStartTimeSell>, <GridStartTicketBuy>, <GridStartTimeBuy>, <LastMonthFound>).	User selected to stop EA due to lack of trade history. <a href="#">More...</a>

## Stopped Due to Lack Of Trade History

### Issue

The user selected to stop the EA because of potential trade history issue on the broker account. In the context of this message the potential issue is that the MT4 terminal could be configured to download only the current calendar month's trade history from the broker server. A potential future problem is that when grid is started in this ongoing month and the calendar rolls over to the next month, the MT4 terminal may drop the trade history upon the month rollover. If the trade history gets dropped then EA would no longer be able to track all grid trades since the grid start and would need to stop, leaving the grid trades unmanaged.

**Note:** The MT4 terminal, after its installation, downloads the trade history only for the current month. To avoid the above potential issue it is highly recommended to enable the download of the full trade history as described below.

See more details at [Enable History During First Time Activation](#) and [Message 50112](#).

### Possible root cause

- The MT4 is configured to download only the current month's trade history from the broker server.
- The broker account is brand new, freshly created, and there is no trade history at all on the broker account

### Resolution

Consider the following items to find resolution to the issue.



1. Reconfigure the MT4 terminal to download full history of trades, i.e. have trades history not only for the current month but for previous ones as well to allow long grid cycles being tracked by the EA. Follow the steps described at [Full Trade History Must Be Enabled](#).
2. In the case of a brand new broker account simply ignore this warning at the start of the EA. Once the history of trades builds up this warning message will no longer appear.

## 6.15 Message 50112

Code	Severity	Message	Description
50112	Error	Missing grid initial tickets (Sell:<SellTicket>, Buy:<BuyTicket>) on broker account, EA is shut down. Press F7 and click OK for more instructions.	Initial grid start tickets are no longer available on broker account. <a href="#">More...</a>

### Grid Start Tickets No Longer Available

#### Issue

The EA cannot find the initial grid start tickets on the broker account and therefore halts. The EA requires access to all grid related tickets on the broker account since the start of the grid in order to track the profit and loss status of the grid and to manage the trades at the grid levels. When access to the tickets on the broker account is not available the EA cannot operate and has to stop.

#### Possible root cause

- User switched to another broker account in the MT5 terminal while the EA was running. The EA will not be able to find the grid tickets on the new broker account as those were created on the other broker account.
- The broker server keeps trade history only for a limited number of trades or for a limited calendar days duration. When these limits are exceeded and the grid is still ongoing then the information to track the grid trades gets lost.

#### Resolution

Consider one of the following items to find resolution to the issue.

1. In the MT5 terminal switch back to the broker account the grid was started off.

**Note:** Best practice is to dedicate an MT5 instance to a single broker account when any EA is active and performing trading. This is to avoid confusion and any potential trading issues. If desired make multiple installations of the MT5 terminal for other purposes.

2. If, after enabling the full trade history, the EA is still not able to find the missing trades on the right broker account then it could be a broker side limitation as of how much and for how long the trade history is kept on the broker server. Talk to the broker to clarify their policy regarding availability of the trade history.

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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.

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