# MT_MODULAR

# COUNTER_RIP

A multi symbol EA for grid trading strategies based on COUNTER RIP

Version 2.8

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Please read carefully the following recommendations:

- If you use this EA, **<u>you do so entirely at your own risk</u>**. There are no warranties or guarantees.
- Most FOREX traders lose all their money.
- Using the robot posted here in trading FOREX or any other instrument does not guarantee success.
- Trading this EA could lead to serious financial loss.
- You should extensively test this EA before using real money.
- Trading this robot without understanding its underlying trading strategies guarantees traders will lose their money.
- This is not a set-and-forget EA; there is no such thing and anyone who tries to claim there is, is either stupid or lying. This EA requires frequent manual intervention and/or monitoring.

These recommendations are extracted from Steve Hopwood Forex site ([www.stevehpwoodforex.com](www.stevehpwoodforex.com)) and other sources and apply exactly the same to this EA.

English is not my mother tongue so, please, being nice with any aberrant use of the language you might find at these pages will be appreciated.

What is the history of this EA? Magix, our host at http://magix.freeforums.org has been always been very considerate to acknowledge the effort of all parties involved in this adventure, so I will use his own words:

*True story! V3 trigger is a M1M5 Stochs Comparison that was introduced by **Kosmo**...*

*I (Magix) wrote that trigger into a version of it's own and we played with it for a while...*

*I (Magix) passed along this code to members of the house and it was **Itinerant** who corrected my Coding Errors. How the actual code was written, was correct in all aspects, with exception of taking the Multiple Time Frames into consideration...ergo, it was 100% wrong!*

*Once corrected, we have knocked the idea around with our Admin teams, from the millipede closing ideas, of **GVC** to extending the range of trailing stops with **Pontus**, to working with something that more so effectively creates range with **EZcurrency** to testing all these little tidbits before getting them in the hands of our forum expert testers **Darkforce** and **BlueJack**... prior to getting punted into the Testing Lab for the **rest of you all** to work with and try.*

*We've been fortunate to have somebody like **Sergien** come along and really knock this out of the park with a brand new spin on things, turning the unthinkable into the possible ...*

Additionally, this EA is based on ideas and/or code by:

- **Trigger on Grid** (by **totom sukopratomo**)
- **TMA_CG_Multitrader** (by Andrew West). You can find the excellent TMA_CG_Multitrader at Andrew's site( http://www.fxtradingforum.co.uk/viewtopic.php?f=29&t=219 )
- **TradeHistoryReport** (by **Rene Zeestraten**). The visual style of this EA is based mainly in the indicator by Rene.
- **Magix8Ball** (by **itinerant**). Without the explanations and clear insights from **itinerant** this manual will not exist as is. You can find the fantastic Magic8Ball EA and its instructions at http://magix.freeforums.org/instructions-for-magic8ball-modular-expert-advisor-t126.html . As you will see I have shamelessly use **itinerant** examples in many of the pages., so credit has to go to him for the effort invested in its generation.
- And, of course, the fantastic contributions at http://magix.freeforums.org by many of the people sharing their thoughts there.

*There is a random distribution between wins and losses for any given set of variables that define an edge/system. In other words, based on the past performance of your edge, you may know that out of the next 20 trades, 12 will be winners and 8 will be losers. What you don't know is the sequence of wins and losses or how much money the market is going to make available on the winning trades. This truth makes trading a probability or numbers game. When you really believe that trading is simply a probability game, concepts like right and wrong or win and lose no longer have the same significance. As a result, your expectations will be in harmony with the possibilities.*

"Trading in the Zone", Mark Douglas

Mark Douglas, at "Trading in the Zone", defines three fundamental principles:

- Predefine the risk.
- Cut the losses.
- Systematically take profits.

This EA has the capabilities for respecting the three principles, but it is up to the trader to set the parameters to make it work accordingly to them.

Subsequent evolutions of this EA will always be focused into the adherence to these principles.

The amount of settings below may seem overwhelming, however, in the same spirit of the Magic8Ball EA (Modular Expert Advisor) the idea behind this EA is to have a full framework to deal with all the aspects of this kind of trades.

- Parameter **MAGIC NUMBER** (*EA_magic_number*)

*Valid setting: Any positive whole number*

This is a special number that gets added to every order the EA creates. It is used by the EA to keep track of its orders, whilst leaving other orders alone.
You must ensure that this number is different on every chart you apply the EA to.

- Parameter **DO NOT OPEN NEW BASKETS** *(only_manage_open_deals)*

*Valid setting: true or false*

The EA will not open more baskets if this parameter is set to TRUE. It will only manage the already opened baskets, adding more levels to the grid or pyramiding if necessary.

- Parameter **MAX SPREAD ALLOWED** *(max_spread)*

*Valid setting: Any positive decimal number*

Spread is the difference between the Bid and the Ask. The EA will not enter a trade if the current spread is greater than this value. If you make this value too small, orders will be rejected.
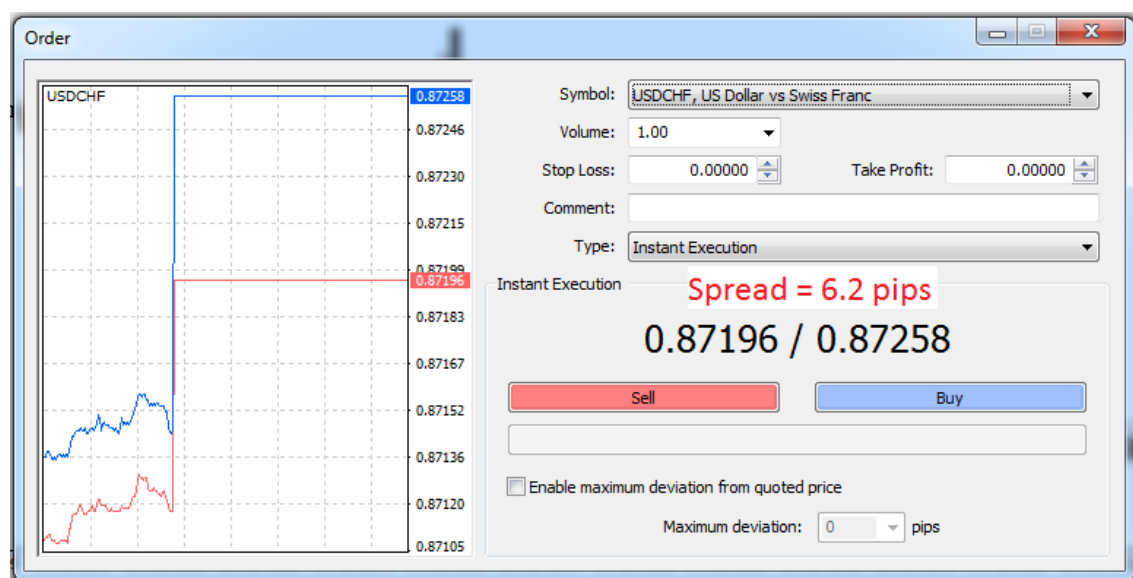


This value is set in pips. There is a lot of confusion regarding points, pips, 4 point brokers, 5 point brokers.

The EA works on the traditional understanding of a pip, which is...

- 1 pip = 0.0001 on a 4 point pair such as EURUSD (which is the same as 0.00010 on a 5 point broker)
- 1 pip = 0.01 on a 2 point pair such as USDJPY (which is the same as 0.010 on a 3 point broker)

A couple of examples:

- 4 point broker: Ask = 1.3001 :: Bid = 1.3000 :: Spread = 0.0001 = 1 pip
- 5 point broker: Ask = 1.30010 :: Bid = 1.30000 :: Spread = 0.00010 = 1 pip

Just to be clear: you must set spread in pips. However, if you see a rejection message in the log it will be written in points.

- Parameter **MAX SLIPPAGE ALLOWED** *(max_slippage)*

  *Valid setting: Any positive decimal number*

  Slippage is the difference between the price you expect and the price the order gets placed at. It typically happens when the market is volatile.

  For example:

  Price when order sent = 1.30015 :: Price when order gets executed = 1.30040 :: Slippage = 0.00025 = 2.5 pips.

  EA order will be rejected by the broker if slippage is greater than this value.

  This value is also set in pips (see parameter **MAX SPREAD ALLOWED** for an explanation of pips versus points).

  If you make this value too small, orders will be rejected.

# SECTION SYMBOLS SELECTION/FILTERING

- Parameter **SYMBOLS** *(allowed_symbols)*

  *Valid Setting: List of comma separated symbols or empty*

  If not empty, the EA will trade only the list of symbols listed here.

  This setting has priority over the **CURRENCIES TO COMBINE** parameter. The EA will only trade the symbols listed here.

- Parameter **CURRENCIES TO COMBINE** *(allowed_currencies)*

  *Valid Setting: ALL, BASIC, a list of comma separated currencies or empty*

  The EA will generate a list of symbols to be traded using the settings of this parameter.

  If set to "ALL" it will use all the available symbols for trading. I repeat, ALL the available symbols, not only the available pairs. This is not a "bug", it is a feature.

  If set to "BASIC" or empty will be equivalent to write: USD,EUR,GBP,JPY,AUD,CHF,CAD,NZD. The list of pairs resulting will depend of the availability of combinations offered by your broker.

  In my case, if selecting USD,EUR,GBP,JPY,AUD,CHF,CAD,NZD the resulting list of pairs will be: AUDCAD, AUDCHF, AUDJPY, AUDNZD, AUDUSD, CADCHF, CADJPY, CHFJPY, EURAUD, EURCAD, EURCHF, EURGBP, EURJPY, EURNZD, EURUSD, GBPAUD, GBPCAD, GBPCHF, GBPJPY, GBPNZD, GBPUSD, NZDCAD, NZDCHF, NZDJPY, NZDUSD, USDCAD, USDCHF, USDJPY. If your broker also lets you trade in GOLD and SILVER, it will add XAUUSD and XAGUSD to the mix as the EA also sees the combination with USD as another pair.

  Be careful with the "ALL" option if your trader also lets you to trade other symbols. In this context ALL means exactly that: all symbols available for trading, not only the available pairs.

- Parameter **EXCLUDED SYMBOLS** *(not_allowed_symbols)*

  *Valid Setting: List of comma separated symbols or empty*

  If you don't want a symbol to be traded (i.e. XAGUSD, XAUUSD) just list them here.

- Parameter **ADDITIONAL SYMBOLS** *(forced_symbols)*

  *Valid Setting: List of comma separated symbols or empty*

  Forced symbols are symbols that will be always selected even if the combination of currencies does not include them.

## Subsection CURRENCY FILTERING

- Parameter **DO NOT HEDGE CURRENCY** *(do_not_hedge_currency)*

*Valid Setting: true or false*

If you don't want for the same currency to be bought and sold and the same time, use this option to prevent it.

- Parameter **LIMIT CONCURRENCY** *(use_filter_currency_number)*

*Valid Setting: Any positive whole number greater than 0.*

If set to true the EA will use the **MAX CONCURRENCY** setting to limit the number of times a currency will be use at the same time.

- Parameter **MAX CONCURRENCY** *(number_to_trade)*

*Valid Setting: Any positive whole number greater than 0.*

Number of times a currency will be used if **LIMIT CONCURRENCY** is set to true.

## SUBSECTION SYMBOLS MOVEMENT FILTERING

- Parameter **"VOLATILITY" MINIMUM RATIO** *(price_volatility_minimum_ratio)*

  *Valid Setting: Any positive number greater than 0*

  The "volatility" ratio is calculated as:

  $$Volatility_{ratio} = \frac{\% \, High - Low \, Movement}{\% \, Price \, Movement}$$

  You can set the minimum value this coefficient has to have for a symbol to be traded.

- Parameter **H-L %  MINIMUM** *(price_high_low_percent_minimum)*

  *Valid Setting: Any positive number greater than 0*

  You can set the minimum range needed for a symbol to be traded.

- Parameter **% price & H-L period** *(price_volatility_timeframe)*

  *Valid setting: Any valid timeframe*

  Timeframe in which the % Price Movement and the % H/L Movement will be calculated.

## Subsection CSS FILTERING

For a complete description of CSS, please take a look at NanningBob description published at Steve Hopwood's forum: http://www.stevehopwoodforex.com/phpBB3/viewtopic.php?f=38&t=3556

*"The guts of how the CSS works - simply put it compares the strength of each currency Vs the entire selection of currencies in currency pairs you have chosen - using each pair. What that means is - if you have all the standard symbols included and are looking at the CSS for all currencies and you look at the GBP "line" - it is comparing GBP to USD/AUD/NZD/JPY/CHF/EUR to get the GBP strength. If, for example, you have omitted GBPNZD from the list of currencies as you don't trade it then it will just compare GBP to USD/AUD/JPY/CHF/EUR so of course the line and strength will be different.*

*So how does the CSS work? First we take the indicator TMA and we measure angle of increase or decrease. As price goes up the angle goes up, as price goes down its angle goes down. We measure this angle and the more the angle the more powerful the move is. So we measure the strength or weakness of a currency by the angle. A no angle would be 0 meaning price is not going anywhere but in an up and down motion. A positive angle means price overall is going up, a negative angle means price is going down. The higher the number the faster overall price is going up; the lower the number the slower price is going up. Unlike other indicators that measure price action when the lines begin to move back to 0 it does not mean it is reversing. It means its angle of increase is slowing down. That means price is still moving up just at a slower speed.*

*When we first used this we came up with a slope indicator and measured the weakness and strength of the 2 currencies on the screen. We called this the slope. Slope going up price is increasing slope going down, the rate of increase is slowing, crossing the 0 line was the reversal point of trend direction.*

*Then we came up with the idea of if we measured all the slopes of the currency pairs, we could come up with one line representing the overall move of a specific currency. For example if we took the slopes of the gbp/aud, gbp/cad, gbp/chf; gbp/jpy, gbp/usd, gbp/nzd, and eur/gbp; added up their slope angle numbers and divide by 7 we had one line representing the overall strength of that currency. We did this with each one and we ended up with a screen that looks like this (see below for actual examples)."*

- Parameter **CSS FILTERING METHOD** *(CSS_filter_method)*

   *Valid Setting: NONE, 24 PAIRS o 12 PAIRS*

   If set to 24 PAIRS, the following pairs will be used for calculations: AUDCAD, AUDCHF, AUDJPY, AUDNZD, AUDUSD, CADJPY, CHFJPY, EURAUD, EURCAD, EURJPY, EURNZD, EURUSD, GBPAUD, GBPCAD, GBPCHF, GBPJPY, GBPNZD, GBPUSD, NZDCHF, NZDJPY, NZDUSD, USDCAD, USDCHF, USDJPY.
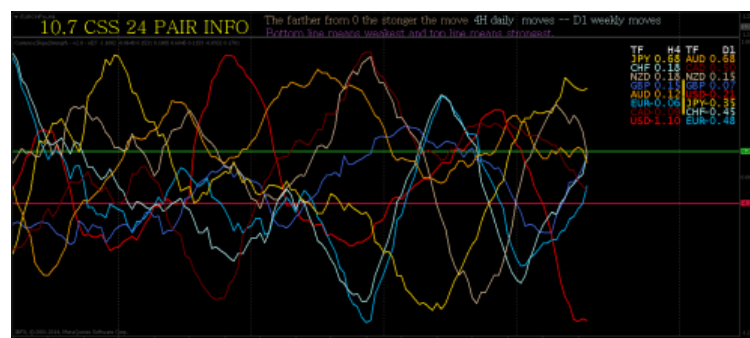
If set to 12 PAIRS, the following pairs will be used for calculations: AUDCHF, AUDJPY, AUDUSD, CADJPY, EURCAD, EURUSD, GBPCAD, GBPCHF, GBPNZD, GBPUSD, NZDJPY, NZDUSD.



NanningBob explains that using the 12 PAIRS option "*solves a problem I thought existed with the 24 pair screen in that the euro and chf were counting double value because the SNB has tied the CHF to the EURO. This overweighed the overall effect of these two currencies*".

What does this filter if activated?  If we receive a BUY signal for a pair it means we are buying the first currency in the pair and selling the second, so the filter ensures they are moving in the correct direction and on the right side of zero.

If we receive a SELL signal for a pair it means we are selling the first currency in the pair and buying the second, so the filter ensures they are moving in the correct direction and on the right side of zero.

- Parameter **CSS TIMEFRAME** *(CSS_timeframe)*

*Valid setting: Any valid timeframe*

Timeframe in which the CSS is calculated.

- Parameter **TRADING TIMEFRAME** *(trade_timeframe)*

*Valid setting: Any of the possible allowed timeframes to trade.*

This is the timeframe the trading logic is applied to if the **MULTIPLE TF LIST** is empty.

If the selected value is set to **CURRENT** the EA will use the same timeframe as the chart it is applied to.

<span style="color:red">As the trading logic in the COUNTER_RIP strategy uses a second timeframe for the filtering MA, the second timeframe is calculated as the next relevant one, i.e. M1:M5, M5:M15, M15:H1, M30:H1, H1:H4, H4:D1, D1:W1, W1:MN1. If timeframe selected is different from M1, M5, M15, M30, H1, H4, D1 or W1, the same timeframe will be use for the second one, i.e: M3:M3.</span>

- Parameter **MULTIPLE TF LIST**  *(trade_timeframe_multiple)*

*Valid setting: Any of the possible allowed timeframes to trade expressed in pairs and separated with commas.*

If this parameter is set it supersedes the **TRADING TIMEFRAME** setting, rendering it without effect.

The timeframes as expressed as "TF1:TF2". If we want the EA to trade on multiple timeframes we will use an expression similar to this:

M1:M5,M5:M15,H1:D1,M1:H1

This example will indicate the EA which timeframe we want to use for both for the Stochastic and the Slow MA and which timeframe to use for the Fast MA.

## SUBSECTION TRIGGER FILTER

The values and parameters of this section depend of the implementation of the triggering. The actual description here relates to the "Conter_Rip" version of the EA.

- Parameter **STOCHASTIC: K** *(trigger_stochastic_k)*
- Parameter **STOCHASTIC: D** *(trigger_stochastic_d)*
- Parameter **STOCHASTIC: SLOW** *(trigger_stochastic_slow)*
- Parameter **STOCHASTIC: OVERSOLD** *(trigger_stochastic_OS)*
- Parameter **STOCHASTIC: OVERBOUGHT** *(trigger_stochastic_OB)*
- Parameter **MA: FAST PERIOD** *(trigger_MA_fast_period)*
- Parameter **MA: SLOW PERIOD** *(trigger_MA_slow_period)*
- Parameter **MA: METHOD** *(trigger_MA_method)*
- Parameter **MA: APPLIED PRICE** *(trigger_MA_price)*
- Parameter **MA: DISTANCE** *(trigger_MA_distance)*

For a description of the trading logic, please consult the CounterRip thread by Magix at http://magic.freeforums.org

## SUBSECTION EXIT / DYNAMICS / HEDGING

- Parameter **CLOSE METHOD** *(trade_close_method)*

*Valid setting: ON TRIGGER, ON TRIGGER AT LOSS BUT TRAIL PROFIT, ON TRIGGER AT PROFIT, ON OPPOSITE OPEN TRIGGER, ON OPPOSITE OPEN TRIGGER AT LOSS BUT TRAIL PROFIT or IGNORE*

If set to **ON TRIGGER**, the EA will use the signals generated by the trigger indicator to close the basket.

If set to **ON TRIGGER AT LOSS BUT TRAIL PROFIT**, the EA will use the signals generated by the trigger indicator to close the basket if is at loss. If the basket is on profit it will activate the trailing mechanism selected at the trail calculation method.

If set to **ON TRIGGER AT PROFIT**, the EA will use the signals generated by the trigger indicator to close the basket if is at profit. If the basket is on loss it will not be closed.

If set to **ON OPPOSITE TRIGGER**, when an opposite trigger signal is received the entire sequence will be closed. Immediately afterwards, a sequence in the opposite direction will be started.
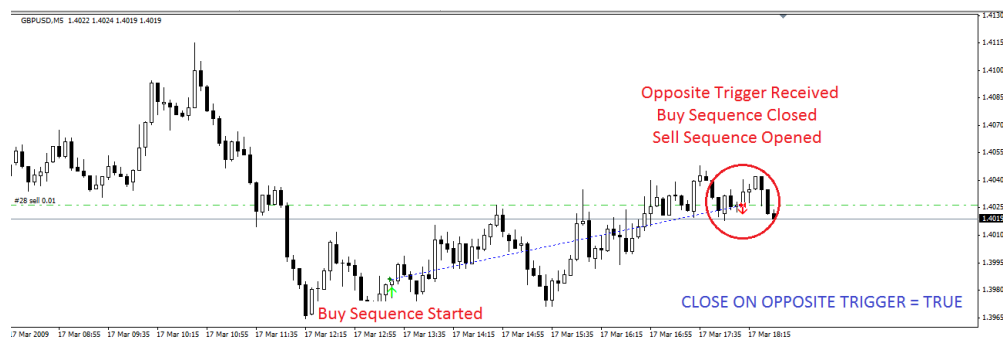


If set to **ON OPPOSITE TRIGGER AT LOSS BUT TRAIL PROFIT**, the EA will use the opposite signal trigger to close the basket if is at loss. If the basket is on profit it will activate the trailing mechanism selected at the trail calculation method.

If set to **IGNORE** the closing signals from the triggering indicator will be ignored.

- Parameter **MAX SAME SYMBOL OPEN BASKETS** *(same_symbol_max_baskets)*
*Valid setting: any positive or negative whole number.*

If set to zero or a negative number the number of baskets that can be opened over the same symbol will not be limited.

If the number is positive the number of baskets allowed simultaneously over the same symbol will be determined by this parameter.

- Parameter **MAX SAME TF/TYPE OPEN BASKETS** *(same_TF_max_baskets)*
*Valid setting: any positive or negative whole number.*

*(THIS PARAMETER IS NOT AVALIABLE ON THIS VERSION OF EA)*

*ONLY ONE BASKET WILL BE TRADED BY SYMBOL, TIMEFRAME AND DIRECTION COMBINATION.*

If set to zero or a negative number the number of baskets that can be opened at the same symbol, timeframe and direction will not be limited.

If the number is positive the number of baskets allowed simultaneously over the same symbol at the same timeframe with the same direction will be determined by this parameter.

- Parameter **OPEN LONG AND SHORT SIMULTANEOUSLY**
  *(trade_long_and_short_simultaneously)*

  *Valid setting: true or false*

  If TRUE the EA will trade long entries and short entries as separate baskets. This is equivalent to have two EAs on different charts (one trading only longs and the other trading only shorts).

  Note: if your broker does not allow hedging, this must be set to FALSE.

## SUBSECTION TREND FILTERING

- Parameter **FILTERING METHOD** *(trade_MA_trend_filter_mode)*

  *Valid setting: NONE, NANNINGBOB (LOOSE), NANNING BOB (STRICT), MAGIX (LOOSE) or MAGIX (STRICT)*

  If set to **NONE** no trend filter is applied.

  If set to **NANNINGBOB (STRICT)** only when the trigger and the trend have the same direction a trade will be allowed. Trend is calculated using NANINGBOB's definition of trend.

  If set to **NANNINGBOS (LOOSE)** also trades when the trend is ranging will be allowed.

  If set to **MAGIX (STRICT)** only when the trigger and the trend have the same direction a trade will be allowed. Trend is calculated using MAGIX's definition of trend.

  If set to **MAGIX (LOOSE)** also trades when the trend is ranging will be allowed.

- Parameter **MA: FILTERING TIMEFRAME** *(trade_MA_trend_timeframe)*

  *Valid setting: Any valid timeframe*

  Timeframe in which the MA's for trend determination are calculated.

- Parameter **MA: FAST PERIOD** *(trade_MA_trend_MA1_value)*

  *Valid setting: Any positive whole number*

  Period for the Fast MA for trend determination.

- Parameter **MA: SLOW PERIOD** *(trade_MA_trend_MA2_value)*

  *Valid setting: Any positive whole number*

  Period for the Slow MA for trend determination.

- Parameter **MA: DISTANCE** *(trade_MA_trend_distance)*

  *Valid setting: Any positive number*

  Distance used in trend determination is using Magix's MA method.

## SUBSECTION OTHER FILTERING

- Parameter **MAX OPEN BASKETS** *(trade_max_open_baskets)*

*Valid setting: Any whole integer greater than 0*

This is the maximum number of simultaneously open baskets when the EA is trading.

- Parameter **ALLOWED TRADING TIMES** *(trade_allowed_times)*
*Valid setting: A valid definition of times for trading*

This setting is inspired in the definition of Tranding Time Restrictions used in the MT4i Personal Trade Copier.

**ALLOWED TRADING TIMES** parameter lets you control the times of day when the EA is allowed to place trades. Any trigger outside these times will be ignored. All times are interpreted as broker time, not local time.

The format of the **ALLOWED TRADING TIMES** parameter is a comma-separated list of permitted times, each of which can be period. Examples are as follows:

| | |
|---|---|
| *MON-16-17:30* | Only allow trading between 4pm and 5.30pm on Monday |
| *ALL-8:15-12* | Only allow trading everyday between 8.15am and 12.59am (note: 12:59, not 11:59 or 12:00) |
| *ALL-19:20-19:25* | Only allow trading between 7.20pm and 7.25pm |

Any number of these settings can then be combined as a comma-separated list (in any order). Therefore, the above examples could be combined to create a complex trading window as follows:

*MON-7:00-23:59,TUE-00:00-23:49,WED-00:00-23:49,THU-00:00-23:49*

This example will only let the EA to trade from Monday 7pm till Thursday 23:59.

- Parameter **FILTERING METHOD** *(news_filter_mode)*

  *Valid Setting: NONE, DON'T TRADE NEWS, ONLY TRADE NEWS, ONLY SHOW EVENTS*

  If set to **NONE** any use of news events is disabled.

  If set to **DON'T TRADE NEWS** the EA will use the time window and importance of events to disable the signals to start new baskets. The rest of the time trading will be enabled. It does not disable the grid or pyramiding logic.

  If set to **ONLY TRADE NEWS** the EA will use the time window and importance of events to enable the signals to start new baskets. The rest of the time trading will be disabled. It does not disable the grid or pyramiding logic.

  If set to **ONLY SHOW EVENTS** the information about incoming events for each pair will be shown, but no filtering will be in place.

- Parameter **CRITICIY LEVEL** *(news_select_events_with_criticity)*

  *Valid Setting: ANY EVENT, AT LEAST LOW, AT LEAST MEDIUM, ONLY HIGH*

  This parameter indicates the importance of events we want to use in our filter.

  If set to:

  - Option ANY EVENT: Any kind of event will be used.
  - Option AT LEAST LOW: Low, Medium & High impact events will be considered.
  - Option AT LEAST MEDIUM: Medium & High impact events will be considered.
  - Option ONLY HIGH: Only High impact events will be used.

- Parameter **DISABLE ENTRIES BEFORE** *(news_disable_entries_before_minutes)*

  *Valid Setting: Any positive whole number greater than 0.*

  If the **FILTERING METHOD** parameter is set to **DON'T TRADE NEWS**, no news baskets will be opened for symbol before any kind of event that affects any of its currencies for the duration set.

  The value is expressed in minutes.

  The kind of event used is set at the **CRITICITY LEVEL** parameter.

  This parameter is used with the **ENABLE AFTER MINUTES** parameter to establish the time window where no new baskets are allowed.

- Parameter **ENABLE ENTRIES AFTER** *(news_enable_after_minutes)*

  *Valid Setting: Any positive whole number greater than 0.*

If the **FILTERING METHOD** parameter is set to TRUE, no news baskets will be opened for symbol after any kind of event that affects any of its currencies for the duration set.

The value is expressed in minutes.

The kind of event used is set at the **CRITICIY LEVEL** parameter.

This parameter is used with the **DISABLE BEFORE MINUTES** parameter to establish the time window where no new baskets are allowed.

- Parameter **REFRESH INTERVAL** *(news_refresh_interval)*

*Valid Setting: FOREXFACTORY or DAILYFX .*

This parameter selects the source for the news feed.

If you are backtesting the EA this parameter will be automatically set to DAILYFX. The reason for this is DAILYFX has a mechanism that lets us gather information from the past.

- Parameter **XML SOURCE** *(news_source)*

*Valid Setting: FOREXFACTORY or DAILYFX .*

This parameter selects the source for the news feed.

If you are backtesting the EA this parameter will be automatically set to DAILYFX. The reason for this is DAILYFX has a mechanism that lets us gather information from the past.

- Parameter **LOCAL GMT ZONE** *(news_local_GMT_zone)*

*Valid Setting: Any whole number .*

This is the GMT zone where you live (the corresponding to your own clock). In my case it is GMT+1, so I set this parameter to 1.

If this parameter is not correctly set you will receive improper feedback from the EA.

- Parameter **BROKET_GMT_ZONE** *(news_broker_GMT_zone)*

*Valid Setting: Any whole number .*

This is the GMT zone the broker uses for its operations (the corresponding to the MT4 clock). In my case it is GMT+2, so I set this parameter to 2.

If this parameter is not correctly set you will have a huge problem as news will be not synchronized to your trading.

- Parameter **GENERATE EXT TIME REFERENCE** *(news_use_global_time_reference)*

*Valid Setting: true or false*

This options enable the use of a common time signal for backtesting.  It will not affect trading or backtesting.

The values and parameters of this section depend of the implementation of the triggering. The actual description here relates to the "modular" version of the EA.

- Parameter **GET STARTING LOT FROM …** *(position_sizing_source)*

  *Valid Setting: INTERNAL or TRIGGER INDICATOR*

  ***(THIS PARAMETER IS NOT AVALIABLE ON THIS VERSION OF EA)***

  There are 2 ways that the EA can retrieve the initial position size.

  1. By using the settings in the EA.
  2. By importing the initial size setting from the Trigger Indicator.

  By retrieving the grid size externally (from the Trigger Indicator) there are 2 distinct benefits:

  The process of switching between Trigger Indicators is quicker because you don't need to change all the EA settings.

  You can actually calculate the starting lot size on the fly. For example, your trigger indicator may have a formula to decide upon the lot size according to the current market conditions.

- Parameter **LOCAL CALCULATION METHOD** *(position_sizing_method)*

  *Valid Setting: FIXED SIZING or RISK PERCENT BASED*

  If set to **FIXED SIZING** the lot size will be the value set at the parameter **LOCAL METHOD VALUE**.

  ***(RISK PERCENT BASED IS NOT AVALIABLE ON THIS VERSION OF EA)*** If set to **RISK PERCENT BASED**, the lot size will be calculated as a fraction of the available equity using the value set at the parameter **LOCAL METHOD VALUE** as the fraction desired. – THIS OPTION IS STILL DEVELOPMENT.

- Parameter **LOCAL METHOD VALUE** *(position_sizing_value)*

  *Valid Setting: any positive decimal number*

  This is used in conjunction with **LOCAL CALCULATION METHOD**.

  If **LOCAL CALCULATION METHOD** is set to **FIXED SIZING** the value specified will be used directly for the starting lot, i.e. 0,1 means 0,1 lots for the starting lot.

  ***(THIS PARAMETER IS NOT AVALIABLE ON THIS VERSION OF EA)*** If **LOCAL CALCULATION METHOD** is set to **RISK PERCENT BASED**, the value specified will be understood as the percent of equity that will be used for the calculations, i.e 10 means 10%. – THIS OPTION IS STILL UNDER DEVELOPMENT.

- Parameter **SIZING CALCULATION METHOD** *(grid_lot_sizing_method)*

*Valid Setting: MULTIPLIER or INCREMENT*

If set to **MULTIPLIER**, the lot size for each level will be calculated exponentially. The value of the multiplier must be set in **SIZING METHOD VALUE.**

If set to **INCREMENT**, the lot size will increase each level by a fixed amount. The value of the multiplier must be set in **SIZING METHOD VALUE**.

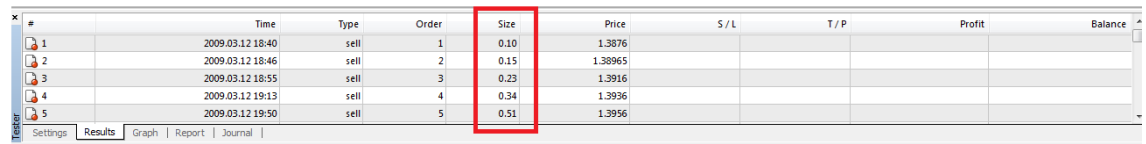Note: At the start of a new sequence, all lot size calculations restart from the value set in Start Lot.

- Parameter **SIZING METHOD VALUE** *(grid_lot_sizing_value)*

*Valid Setting: Any positive decimal number*

This is used in conjunction with **SIZING CALCULATION METHOD**.

If **SIZING CALCULATION METHOD** is set to **MULTIPLIER**, it is the value of the multiplier to be used in lot size calculations for the grid.
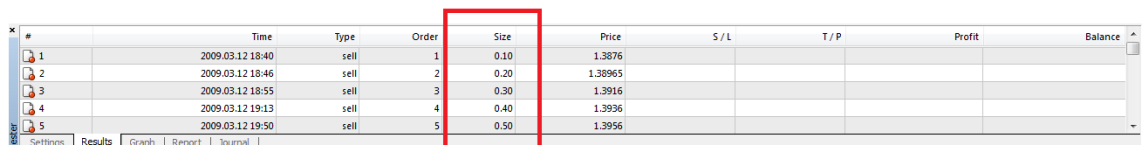
USE LOT MULTIPLIER = TRUE
STARTING LOT (SELL) = 0.1
MULTIPLIER VALUE = 1.5

| # | Time | Type | Order | Size | Price | S / L | T / P | Profit | Balance |
|---|------|------|-------|------|-------|-------|-------|--------|---------|
| 1 | 2009.03.12 18:40 | sell | 1 | 0.10 | 1.3876 | | | | |
| 2 | 2009.03.12 18:46 | sell | 2 | 0.15 | 1.38965 | | | | |
| 3 | 2009.03.12 18:55 | sell | 3 | 0.23 | 1.3916 | | | | |
| 4 | 2009.03.12 19:13 | sell | 4 | 0.34 | 1.3936 | | | | |
| 5 | 2009.03.12 19:50 | sell | 5 | 0.51 | 1.3956 | | | | |

Settings | Results | Graph | Report | Journal |

If **SIZING CALCULATION METHOD** is set to **INCREMENT**, the lot size will increase by this amount each level with a sequence.

USE LOT MULTIPLIER = FALSE
START LOT (SELL) = 0.1
LOT INCREMENT = 0.1

| # | Time | Type | Order | Size | Price | S / L | T / P | Profit | Balance |
|---|------|------|-------|------|-------|-------|-------|--------|---------|
| 1 | 2009.03.12 18:40 | sell | 1 | 0.10 | 1.3876 | | | | |
| 2 | 2009.03.12 18:46 | sell | 2 | 0.20 | 1.38965 | | | | |
| 3 | 2009.03.12 18:55 | sell | 3 | 0.30 | 1.3916 | | | | |
| 4 | 2009.03.12 19:13 | sell | 4 | 0.40 | 1.3936 | | | | |
| 5 | 2009.03.12 19:50 | sell | 5 | 0.50 | 1.3956 | | | | |

Settings | Results | Graph | Report | Journal |

Note: All accounts have a minimum amount that a lot size can be increased by. This is set by the broker. The EA will automatically adjust your lot size to meet this requirement.

- Parameter **MAX GRID LEVEL** *(grid_level)*

  *Valid Setting: Any positive whole number greater than 0*

  This is the maximum number of grid levels that will be opened in a sequence.

    o When an order is opened, it is Grid Level 1.
    o When you add to this position, it is Grid Level 2.
    o When you add again, it is Grid Level 3.
    o And so on.

  When the maximum grid level is reached, no more grid levels will be opened.
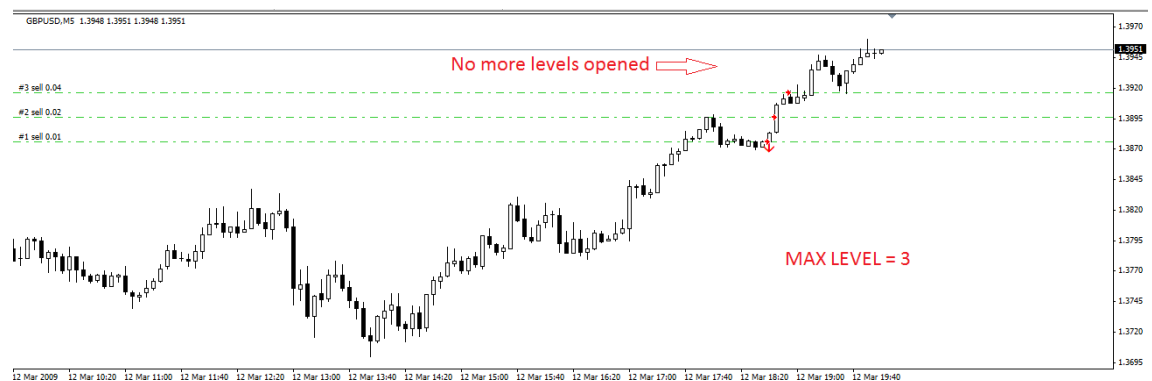


- Parameter **GET RANGE FROM …** *(grid_range_source)*

  *Valid Setting: INTERNAL or TRIGGER INDICATOR*

  There are 2 ways that the EA can retrieve the grid range.

    3. By using the settings in the EA.
    4. By importing the initial size setting from the Trigger Indicator.

  By retrieving the grid range externally (from the Trigger Indicator) there are 2 distinct benefits:

  The process of switching between Trigger Indicators is quicker because you don't need to change all the EA settings.

  You can actually calculate the grid range on the fly. For example, your trigger indicator may have a formula to decide upon the grid range according to the current market conditions.

- Parameter **RANGE CALCULATION METHOD** *(grid_range_method)*

  *Valid Setting: PIPS FIXED, PIPS ADAPTATIVE, TIME, TIME AS TIMEFRAME, PIPS FIXED EXPONENTIAL or PIPS ADAPTATIVE EXPONENTIAL*

  If set to **PIPS FIXED**, the spacing between grid levels will be a fix amount in pips. The value of the spacing must be set in **RANGE METHOD VALUE**.

  Example of a 10 pip sell grid on a 5 point broker:

    o Level 1 - 1.35500 (open sell)

- o Level 2 - 1.35600
- o Level 3 - 1.35700

NOTE: The ADAPTATIVE setting should be considered highly experimental.

If set to **PIPS ADAPTATIVE**, the spacing between grid levels will be calculated taking into account the range of the symbol during a period of time. The formula used will be:

$$range = \frac{Selected\ Period\ Trading\ Range \times \frac{range\ factor}{100}}{grid\ level}$$

Being "grid level" the content of **MAX GRID LEVELS** (maximum number of grid levels that will be opened in a sequence) and the "range factor" the percentage of the trading range we think it should be used. The value of the "range factor" must be set in **RANGE METHOD VALUE** and the timeperiod used for calculating the "trading range" is set into **RANGE METHOD VALUE**.

If set to **TIME**, the spacing between grid levels will be determined at the time the grid orders al opened. The time is expressed as seconds at the **RANGE METHOD VALUE.**

If set to **TIME AS TIMEFRAME**, the time spacing between grid levels will be determined at the time the grid orders al opened. The time used will be the same as the second timeframe used for calculations.

- Parameter **RANGE METHOD VALUE** *(grid_range_value)*

  *Valid Setting: Any positive decimal number greater than 0*

  If **RANGE CALCULATION METHOD** is set to **FIXED**, this defines the spacing between grid levels expressed as pips.

  If **RANGE CALCULATION METHOD** is set to **ADAPTATIVE**, this defines the "range factor" needed for the calculation of the grid (see **RANGE CALCULATION METHOD** for description).

- Parameter **RANGE METHOD MINIMUM** *(grid_range_minimum)*

  *Valid Setting: Any positive decimal number greater than 0*

  This value is safeguard measure for range calculation methods. This defines the minimum spacing between grid levels expressed as pips.

- Parameter **RANGE CALCULATION TIMEFRAME** *(grid_range_timeframe)*

  *Valid Setting: Any valid timeframe*

  If **RANGE CALCULATION METHOD** is set to **ADAPTATIVE**, this defines the timeframe upon the trading range for the symbol will be calculated (see **RANGE CALCULATION METHOD** for description).

- Parameter **TRIGGER REQUIRED TO LEVEL UP** *(grid_trigger_required_to_level_up)*

  *Valid Setting: true or false*

  If FALSE an order will be placed as soon as the grid level has been reached.

3 more levels opened up without a trigger

This is the only trigger

TRIGGER REQUIRED TO LEVEL UP = FALSE

If TRUE an order will only be placed when the grid level has been reached AND there is a valid trigger.



Level 2 delayed until valid trigger

EXACTLY SAME CHART AS ABOVE
EXCEPT TRIGGER REQUIRED TO LEVEL UP = TRUE
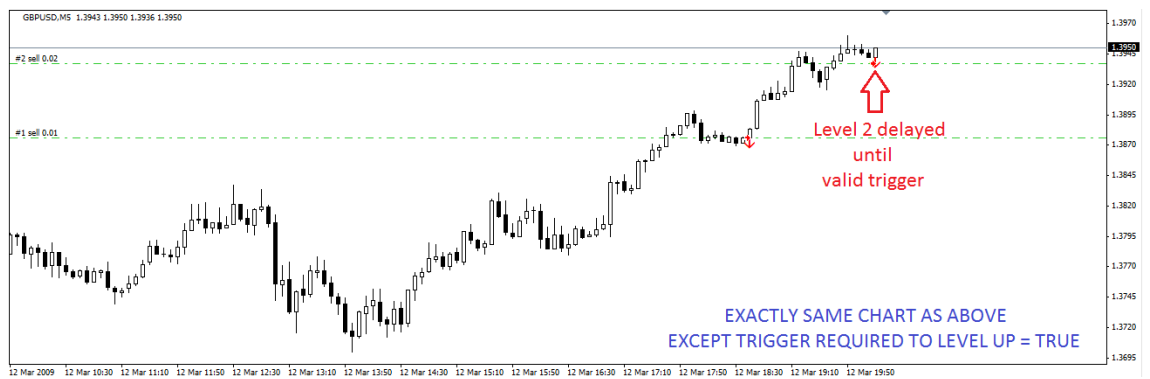
- Parameter **CLOSE GRID BEYOND MAX LEVEL** *(grid_close_beyond_max_level)*

*Valid Setting: true or false*

**(THIS PARAMETER IS NOT AVALIABLE ON THIS VERSION OF EA)**

If set TRUE, when the next grid level after Max Level is reached the entire sequence will close at a loss.

Example: if Max Level is set to 3, the entire sequence will close at Level 4.



All closed at Level 4
Level 3
Level 2
Level 1

MAX LEVEL = 3
CLOSE BEYOND MAX = TRUE
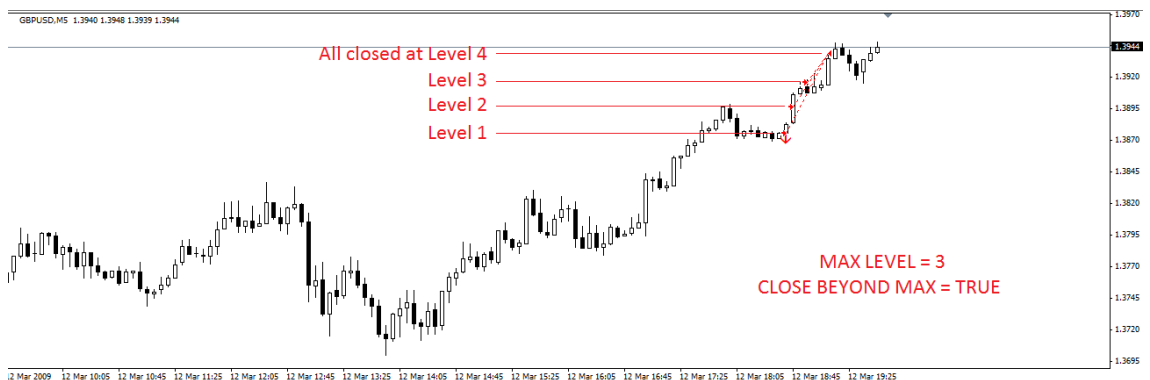
- Parameter **SIZING CALCULATION METHOD** *(pyramid_lot_sizing_method)*

  *Valid Setting: NONE, MULTIPLIER or INCREMENT*

  If set to **NONE**, no pyramiding will be done.

  If set to **MULTIPLIER**, the lot size for each level will be calculated exponentially. The value of the multiplier must be set in **SIZING METHOD VALUE**.

  If set to **INCREMENT**, the lot size will increase each level by a fixed amount (see **SIZING METHOD VALUE**).

- Parameter **SIZING METHOD VALUE** *(pyramid_lot_sizing_value)*

  *Valid Setting: Any positive decimal number*

  This is used in conjunction with **SIZING CALCULATION METHOD.**

  If **SIZING CALCULATION METHOD** is set to **INCREMENT** the value specified will be used directly for adding to the previous level of the pyramid.

  If **SIZING CALCULATION METHOD** is set to **MULTIPLIER**, the value specified will be understood as the multiplier that will be used for the calculations.

- Parameter **MAX PYRAMID LEVEL** *(pyramid_level)*

  *Valid Setting: Any positive whole number greater than 0*

  This is the maximum number of pyramid grid levels that will be opened in a sequence.

  When the maximum grid level is reached, no more pyramid grid levels will be opened.

- Parameter **RANGE CALCULATION METHOD** *(pyramid_range_method)*

  *Valid Setting: PIPS FIXED, PIPS ADAPTATIVE, TIME, TIME AS TIMEFRAME, PIPS FIXED EXPONENTIAL or PIPS ADAPTATIVE EXPONENTIAL*

  If set to **FIXED**, the spacing between pyramid grid levels will be a fix amount in pips. The value of the spacing must be set in **RANGE METHOD VALUE**.

  NOTE: The ADAPTATIVE setting should be considered highly experimental.

  If set to **ADAPTATIVE**, the spacing between pyramid grid levels will be calculated taking into account the range of the symbol during a period of time. The formula used will be:

$$range = \frac{Selected\ Period\ Trading\ Range \times \frac{range\ factor}{100}}{pyramid\ level}$$

Being "grid level" the content of **MAX PYRAMID LEVEL** (maximum number of grid levels that will be opened in a sequence) and the "range factor" the percentage of the trading range we think it should be used. The value of the "range factor" must be set in **RANGE METHOD VALUE** and the timeperiod used for calculating the "trading range" is set into **RANGE METHOD TIMEFRAME**.

If set to **TIME**, the spacing between grid levels will be determined at the time the grid orders al opened. The time is expressed as seconds at the **RANGE METHOD VALUE.**

If set to **TIME AS TIMEFRAME**, the time spacing between grid levels will be determined at the time the grid orders al opened. The time used will be the same as the second timeframe used for calculations.

- Parameter **RANGE METHOD VALUE** *(pyramid_range_value)*

  *Valid Setting: Any positive decimal number greater than 0*

  If **RANGE CALCULATION METHOD** is set to **FIXED**, this defines the spacing between pyramid grid levels expressed as pips.

  If **RANGE CALCULATION METHOD** is set to **ADAPTATIVE**, this defines the "range factor" needed for the calculation of the pyramid grid (see **RANGE CALCULATION METHOD** for description).

- Parameter **RANGE METHOD MINIMUM** *(pyramid_range_minimum)*

  *Valid Setting: Any positive decimal number greater than 0*

  This value is safeguard measure for range calculation methods. This defines the minimum spacing between pyramid grid levels expressed as pips.

- Parameter **RANGE METHOD TIMEFRAME** *(pyramid_range_timeframe)*

  *Valid Setting: Any valid timeframe*

  If **RANGE CALCULATION METHOD** is set to **ADAPTATIVE**, this defines the timeframe upon the trading range for the symbol will be calculated (see **RANGE CALCULATION METHOD** for description).

- Parameter **TRIGGER REQUIRED TO LEVEL UP** *(pyramid_trigger_required_to_level_up)*

  *Valid Setting: true or false*

  If FALSE an order will be placed as soon as the pyramid level has been reached.

- Parameter **PROFIT % TO PROTECT** *(pyramid_profit_percent_to_protect)*

*Valid Setting: Any positive decimal number greater than 0 and below 100*

This is the percent of profit that will be protected when you open the pyramid trades.

There is a delicate moment that can occur before the basket has reached its target objective and the beginning of the pyramiding. In order to protect the basket an independent profit trailing is set by this amount.

## SUBSECTION EA PROFIT MANAGEMENT

- Parameter **TARGET CALULATION METHOD** (*global_target_profit_method*)

  *Valid Setting: NONE, FIXED CASH, FIXED PIPS, FIXED PERCENTAGE or EQUIVALENT CASH EFFORT*

  If set to **NONE**, no global target will be used.

  If set to **FIXED CASH**, all the orders managed by the EA will be closed down if this amount of money is achieved. This amount will be the target *combined* profit for all the orders managed by the EA (with the same magic number). All orders will be close independently of their own profit.

  The amount is given at the **TARGET METHOD VALUE** parameter. The amount is set using Account Currency. e.g. 1000 = $1000 on a USD account.

  :: Example: $1000 Target,

  When the combined profit of all the orders in the Buy Sequence reaches $1000, all orders are closed. Some orders may be closed at a loss, but the overall profit should still be $1000.

  If set to **FIXED PIPS**, all the orders managed by the EA will be closed down if this amount of pips is achieved. This amount will be the target *combined* profit in pips for all the orders managed by the EA (with the same magic number). All orders will be close independently of their own profit.

  If set to **FIXED PERCENTAGE**, all the orders managed by the EA will be closed down if this percentage of profit is achieved. This amount will be the target *combined* profit for all the orders managed by the EA (with the same magic number).

  The amount is given at the **TARGET METHOD VALUE** parameter.

  :: Example: 10 Target, with an equity of $1000

  When the combined profit of all the orders in the Buy Sequence reaches $100 (10% of equity), all orders are closed. Some orders may be closed at a loss, but the overall profit should still be $100.

- Parameter **TARGET METHOD VALUE** (*global_fixed_profit_value*)

  *Valid Setting: Any positive decimal number greater than 0.*

  See **TARGET CALCULATION METHOD** for definition and usage of this parameter.

## SUBSECTION BASKET PROFIT MANAGEMENT

- Parameter **GET TARGET FROM …** *(basket_target_source)*

*Valid Setting: INTERNAL or TRIGGER INDICATOR*

**(THIS PARAMETER IS NOT AVALIABLE ON THIS VERSION OF EA)**

There are 2 ways that the EA can retrieve the  target profit.

5. By using the settings in the EA.
6. By importing the initial size setting from the Trigger Indicator.

By retrieving the grid range externally (from the Trigger Indicator) there are 2 distinct benefits:

The process of switching between Trigger Indicators is quicker because you don't need to change all the EA settings.

You can actually calculate the target profit on the fly. For example, your trigger indicator may have a formula to decide upon the target profit according to the current market conditions.

- Parameter **TARGET CALCULATION METHOD** *(basket_target_profit_method)*

*Valid Setting: NONE, FIXED CASH, FIXED PIPS, FIXED PERCENTAGE or EQUIVALENT CASH EFFORT*

If set to **NONE**, no basket target will be used.

If set to **FIXED CASH**, all the orders belonging to a basket will be closed down if this amount of money is achieved. This amount will be the target *combined* profit for all the orders belonging to the basket (with the same magic number and basket identification comment). All orders will be close independently of their own profit.

The amount is given at the **TARGET METHOD VALUE** parameter. The amount is set using Account Currency. e.g. 1000 = $1000 on a USD account.

:: Example: $1000 Target,

When the combined profit of all the orders for a given basket in the Buy Sequence reaches $1000, all orders are closed. Some orders may be closed at a loss, but the overall profit for the basket should still be $1000.

If set to **FIXED PIPS**, all the orders belonging to a basket will be closed down if this amount of pips is achieved. This amount will be the target *combined* profit in pips for all the orders belonging to the basket (with the same magic number and basket identification comment). All orders will be close independently of their own pips profit.

If set to **FIXED PERCENTAGE**, all the orders belonging to a basket be closed down if this percentage of profit is achieved. This amount will be the target *combined* profit for all the orders belonging to a basket.

The amount is given at the **TARGET METHOD VALUE** parameter.

:: Example: 10 Target, with an equity of $1000

When the combined profit of all the orders for a given basket reaches $100 (10% of equity), all orders are closed. Some orders may be closed at a loss, but the overall profit should still be $100.

*(EQUIVALENT CASH EFFORT DESCRIPTION NOT AVALIABLE YET)*

- Parameter **TARGET METHOD VALUE** *(basket_target_profit_value)*

*Valid Setting: Any positive decimal number greater than 0.*

See **TARGET CALCULATION METHOD** for definition and usage of this parameter.

- Parameter **TRAIL CALCULATION METHOD** *(basket_trail_profit_method)*

*Valid Setting: NONE, ONLY BE AT CASH, ONLY BE AT PIPS, FIXED CASH, FIXED PIPS, PERCENTAGE, JUMPING CASH, JUMPING PIPS, JUMPING PERCENTAGE, HANGING PIPS, HANGING PERCENTAGE*

When set to **NONE**, the entire sequence will be closed when the target has been reached.



When set to **ONLY AT BE AT CASH**, the stop loss will be set at Break Even when a cash profit has been achieved and will not be modified after that.

When set to **ONLY AT BE AT PIPS**, the stop loss will be set at Break Even when a pips profit has been achieved and will not be modified after that.

When set to **FIXED CASH**, the stop loss will trail at a fixed amount less than the maximum profit in cash reached (see **TRAIL METHOD VALUE** for an example).

When set to **FIXED PIPS**, the stop loss will trail at a fixed amount less than the maximum profit in pips reached.

When set to **PERCENTAGE**, the stop loss will trail at a fixed percentage of the maximum profit reached (see **TRAIL METHOD VALUE** for an example).

When set to **JUMPING CASH**, the stop loss will trail at a fixed amount if the difference of the assured cash till the maximum profit is double than the see **TRAIL METHOD VALUE** (hence the "jumping" name).

When set to **JUMPING PIPS**, the stop loss will trail at a fixed amount if the difference of the assured pips till the maximum profit is double than the see **TRAIL METHOD VALUE** (hence the "jumping" name).

When set to **JUMPING PERCENTAGE**, the stop loss will trail at a fixed amount if the difference of the assured percentage till the maximum profit is double than the see **TRAIL METHOD VALUE** (hence the "jumping" name).

When set to **HANGING PIPS**, (definition pending).

Note: the trailing stop does not activate until the Target has been reached.

- Parameter **TRAIL METHOD VALUE** *(basket_trail_profit_value)*

*Valid Setting: any positive decimal number*

This is used in conjunction with **TRAIL CALCULATION METHOD**.

If **TRAIL CALCULATION METHOD** is set to **PERCENTAGE**, once the target has been reached, the maximum amount of profit that the sequence makes is constantly updated.

If profit drops to the specified % of maximum profit, the trailing stop will close the entire sequence.



TARGET BUY = 10.00
TRAIL BY PERCENTAGE
TRAIL LEVEL = 75

Buy Sequence closed at 75% of maximum profit reached

If **TRAIL CALCULATION METHOD** is set to **FIXED CASH** or **FIXED PIPS,** once the target has been reached, the maximum amount of profit that the sequence makes is constantly updated. If profit drops to a specified amount below the maximum profit, the trailing stop will close the entire sequence.

*Note: when setting the trailing mode in price, the trail level is set in account currency e.g. USD.*



TARGET SELL = 10.00
TRAIL BY FIXED AMOUNT
TRAIL LEVEL = 3.00

Entire Sell Sequence closed at $3 less than max profit reached

## Subsection TRAILING STOP MANAGEMENT

- Parameter **STOP CALCULATION METHOD** *(trailing_stop_method)*

  *Valid Setting: NONE, FIXED AMOUNT*

  If set to **NONE**, no trailing stop will be used.

  If set to **FIXED AMOUNT** … [PENDING WRITING]

- Parameter **STOP METHOD VALUE** *(trailing_stop_value)*

  *Valid Setting: Any positive decimal number greater than 0.*

  See **STOP CALCULATION METHOD** for definition and usage of this parameter.

- Parameter **CLOSE ALL ORDERS IN BASKET** *(use_full_basket_closure_mode)*

*Valid setting: true or false*

This is parameter determines how the baskets are going to be close if any of the situations demanding closure actions arises.

If set to TRUE all orders assigned to a based will be immediately closed. If set to FALSE only the order with the highest percent of loss related to its size will be closed.

## SUBSECTION EA RISK MANAGEMENT

- Parameter **CLOSE ALL BELOW EQUITY** *(close_all_below_equity)*

*Valid Setting: Any positive decimal number greater than 0*

If the equity goes below this cash level all positions will be closed immediately and no further trading will be done.

Set this parameter to zero to disable it.

- Parameter **CLOSE ALL AT CASH RISK** *(close_all_at_cash_risk)*

*Valid Setting: Any negative decimal number below 0*

If the risk (a.ka. loss) goes higher than this amount all positions will be closed immediately. Trading will continue.

Value has to be a negative figure i.e. -300

Set this parameter to zero to disable it.

- Parameter **CLOSE ALL AT PIPS RISK** *(close_all_at_pips_risk)*

*Valid Setting: Any negative decimal number below 0*

If the risk (a.ka. loss) goes higher than this amount all positions will be closed immediately. Trading will continue.

Value has to be a negative figure i.e. -300

Set this parameter to zero to disable it.

- Parameter **CLOSE ALL AT DD% RISK** *(close_all_at_drawdown_percent)*

*Valid Setting: Any negative decimal number below 0*

If the drawdown goes higher than this amount all positions will be closed immediately and no further trading will be done.

Value hast to be a negative figures i.e. -40 (this means -40% DD).

Set this parameter to zero to disable it.

- Parameter **CLOSE ORDERS AT CASH RISK** *(close_orders_at_cash_risk)*

*Valid Setting: Any negative decimal number below 0*

If the risk (a.ka. loss) goes higher than this amount the position with the highest percent of loss related to its size will be closed immediately.

Value has to be a negative figure i.e. -300

Set this parameter to zero to disable it.

- Parameter **CLOSE ORDERS AT PIPS RISK** *(close_orders_at_pips_risk)*

*Valid Setting: Any negative decimal number below 0*

If the risk (a.ka. loss) goes higher than this amount the position with the highest percent of loss related to its size will be closed immediately.

Value has to be a negative figure i.e. -300

Set this parameter to zero to disable it.

- Parameter **CLOSE ORDERS AT DD% RISK** *(close_orders_at_drawdown_percent)*

*Valid Setting: Any negative decimal number below 0*

If the drawdown goes higher than this amount the position with the highest percent of loss related to its size will be closed immediately.

Value hast to be a negative figures i.e. -40 (this means -40% DD).

Set this parameter to zero to disable it.

## SUBSECTION BASKET RISK MANAGEMENT

- Parameter **CLOSE BASKET AT CASH RISK** *(close_orders_at_basket_cash_risk)*

  *Valid Setting: Any negative decimal number below 0*

  If the risk (a.ka. loss) goes higher than this amount the position with the highest percent of loss related to its size will be closed immediately.

  Value has to be a negative figure i.e. -300

  Set this parameter to zero to disable it.

- Parameter **CLOSE BASKET AT PIPS RISK** *(close_orders_at_basket_pips_risk)*

  *Valid Setting: Any negative decimal number below 0*

  If the risk (a.ka. loss) goes higher than this amount the position with the highest percent of loss related to its size will be closed immediately.

  Value has to be a negative figure i.e. -300

  Set this parameter to zero to disable it.

- Parameter **CLOSE BASKET AT DD% RISK** *(close_orders_at_basket_drawdown_percent)*

  *Valid Setting: Any negative decimal number below 0*

  If the drawdown goes higher than this amount the position with the highest percent of loss related to its size will be closed immediately.

  Value hast to be a negative figures i.e. -40 (this means -40% DD).

  Set this parameter to zero to disable it.

## Subsection TRADE RISK MANAGEMENT

- Parameter **CLOSE ORDER AT CASH RISK** *(close_orders_at_order_cash_rist)*

  *Valid Setting: Any positive decimal number greater than 0*

  This is the maximum loss permitted by individual position. If the amount of loss is surpassed the position will be closed immediately.

  Set this parameter to zero to disable it.

- Parameter **CLOSE ORDER AT PIPS RISK** *(close_orders_at_order_pips_risk)*

  *Valid Setting: Any positive decimal number greater than 0*

  This is the maximum loss permitted by individual position. If the amount of loss is surpassed the position will be closed immediately.

  Set this parameter to zero to disable it.

- Parameter **CLOSE ORDER AT DD% RISK** *(close_orders_at_order_drawdown_percent)*

  *Valid Setting: Any negative decimal number below 0*

  If the drawdown goes higher than this amount the position with the highest percent of loss related to its size the order will be closed immediately.

  Value hast to be a negative figures i.e. -40 (this means -40% DD).

  Set this parameter to zero to disable it.

- Parameter **SHOW ONLY IN-TRADE SYMBOLS** *(show_only_active)*

  *Valid Setting: true or false*

  If TRUE only active pairs will be show on the screen.

- Parameter **SHOW BASKET INFORMATION** *(show_basket_information)*

  *Valid Setting: true or false*

  If TRUE baskets are also listed along the corresponding symbols in which they have been created.

- Parameter **SHOW VISUAL AIDS WHE N TESTING** *(show_visual_aids_when_testing)*

  *Valid Setting: true or false*

  If TRUE the baskets trailing stops, target profit objectives and breakeven levels will be put on screen.

- Parameter **SCREEN REFRESH INTERVAL** *(refresh_screen_period)*

  *Valid Setting: Any positive whole number greater than 0.*

  Refresh interval for the information that will be presented on screen in seconds.

- Parameter **AMOUNT OF DIARY INFORMATION** *(verbose_level)*

  *Valid Setting: NONE, LOW, HIGH.*

  The level of information that will be printed on the diary tab.