

T101 Basket Trader

v2

draft 11 Sep 2011

T101 Parameters

Parameter	Description
	T101 Parameters
PairsInBasket	The number of pairs in the basket.
PairSuffix	If the pair has a broker suffix (for example “m” EURUSDm)
PairsToTradeOpposite	Pairs that should be traded oppositely to the basket
	Trade / Trend Detection
UseMarketRead	Set to true if you wish to define the current market type according to one of 5 definitions, (Long, Short, Range, CT Long, CT Short) NB. See the section on market read later to find out why this parameter is so important
UseTradingLogicEngine	Set to true if you wish to use an external “plug-in” to determine open & closing of positions
UseTLEForOpen	If the TLE is to be used for open decisions
UseTLEForClose	If the TLE is to be used for close decisions
TLEUsed	The name of the TLE. IMPORTANT: The TLE must exist and be compiled in your Experts/Indicators folder. The TLE does NOT have to be added to the chart.
AutomaticTLETrading	Set to true, if you want the bot to actually open&close baskets based on the TLE, set to false, if you want the TLE to run (for example for alerts) but no baskets to be opened/closed
	Basket Parameters
LotSize	The default lot size for opening of trades. (NB: If the lot size is less than the minimum lot size for the broker, an alert will be sent and the lot size set to the broker minimum)
BasketMagicNbr	The magic number assigned to trades from this bot
HedgeAddMagicNbr	The number added to the basket magic number to give the Hedge magic number for automatically hedged trades
	Take Profit

Parameter	Description
UseTakeProfit	Set to true if you want to switch on take profit in the bot
VisualTP	Set to true if you want the bot to create a visual marker on the chart for where it should take profit
DefaultTP	Default number of pips the visual marker should be away from current price
ValueTP	Set to true if you want the bot to take profit when the basket reaches a certain level
DefaultTPValue	The default value (in acct. currency) that take profit should occur
	Stop Loss
UseStopLoss	Set to true if you want to switch on stop loss in the bot
VisualSL	Set to true if you want the bot to create a visual marker on the chart for where it should stop loss
DefaultSL	Default number of pips the visual marker should be away from current price
ValueSL	Set to true if you want the bot to stop loss when the basket reaches a certain level
DefaultSLValue	The default value (in acct. currency) that stop loss should occur
	Trailing & B/E + Lock
UseTrailing	Set to true if you want to switch on trailing in the bot
TrailFixed	Set to true if you want to trail a fixed amount from the current profit level
FixedTrailValue	The amount (in acct. currency) the trailing should be behind the current profit
TrailPercent	Set to true if you want to trail a percentage of the current profit level
TrailPercentage	The amount of percent to trail
DftTrailingAtValue	The default amount (in acct. currency) that trailing will start at
DftBreakevenAtValue	The default amount (in acct. currency) that the breakeven + lock will be taken at
DftLockValue	The default amount (in acct. currency) that will be locked when breakeven is set
	Hedging
UseHedging	Set to true if you wish to use hedging in the bot (NB. Hedging & Stop Loss cannot both be used)
VisualHedge	Set to true if you want the bot to create a visual marker on the chart for where hedging should occur
DefaultHedge	Default number of pips the visual marker should be away from current price

Parameter	Description
ValueHedge	Set to true if you want the bot to hedge when the basket reaches a certain level
DefaultHedgeValue	The default value (in acct. currency) that hedging should occur
DefaultMinLoss4Pair	The default value (in acct. currency) that each pair must be in loss by to force the hedge for that pair
	Basket Balancing
BasketBalanceSlowMA	The Slow MA used to determine the trend of the individual pairs
BasketBalanceFastMA	The Fast MA used to determine the trend of the individual pairs
UseBsktBalLookBack	Set to true, if a MA x-over is NOT to be used, but a lookback calculation
BasketBalanceMA	The moving average used to determine the trend of the individual pairs (for a lookback calculation)
BasketBalanceLB	The lookback period that the bot should use to determine the difference between now and previous
	Other Parameters
SleepSecs	The amount in seconds this bot should sleep between each processing loop. Note: this is an ALWAYS ON bot.

Market Read – Why is it so important??

Most automatic trading bots fail quite simply because they have a trading logic and then try to apply that logic to all market conditions (some use time filters to help, like the Asian scalpers) – as a manual trader we would not do that, we would take a look at the market and base a decision on what type of trades we will take based on a combination of fundamentals & technicals.

This is where market read comes in. We manually tell the bot what our “read” of the market is, and by doing so instruct the TLE's to apply different logic for opening / closing orders.

There are 7 market read states, each one can react with the TLE's differently

1. None – TLE's will do nothing
2. Long – TLE's will apply only logic for long
3. Short – TLE's will apply only logic for short
4. Range – TLE's will apply logic specific to range trading
5. CT Long – TLE's will apply the logic for long, with the addition of specific logic for short countertrades
6. CT Short – TLE's will apply the logic for short, with the addition of specific logic for long countertrades
7. N/A – market reads are not applicable, the difference is though TLE's will run in the default market read mode

Screen Display



The EA display can be split into two different sections, in the picture above the EA status section has been highlighted

In this section the following information is displayed

- Number of pairs in the basket as well as any suffix used
- Any pair that is to be traded oppositely of the basket
- The default lot size of the basket
- If market read is being used (previously referred to as NB 10.0 Basis)
- If a trade logic engine is being used, and if so
 - whether it is used for opening, closing or both
 - the name of the TLE being used
 - if automatic trading should occur based on the TLE
- If basket take profit is being used, and if so
 - whether take profit is being used visually
 - whether take profit is being used on basket total profit
- If basket stop loss is being used, and if so
 - whether stop loss is being used visually
 - whether stop loss is being used on basket total loss

- If trailing is being used, and if so
 - At what value the basket should be set to breakeven and lock
 - At what value trailing should start
 - What type of trailing is being used (either percentage based or fixed value)
- What the current minimum profit of the basket is (ie. Where it is currently trailed to / locked)
- If hedging is being used, and if so
 - minimum loss a pair must have to hedge
 - whether hedging is being used visually
 - whether hedging is being used on basket total loss
- If any pairs are currently being excluded from the basket, and what they are
- The current trend balance of the basket
 - negative – trend is down
 - positive – trend is up
 - the percentage of pairs in the basket that are in the same trend direction

Excluding pairs from being opened

If certain pairs are going against the general basket direction, these can be excluded using the script !T101 Exclude Include (you can also use F3 Global variables to do this manually)

If you decide later that you want to add that pair to an opened basket (for instance if it's trend is now inline with the basket) you can use the script !T101 Add One Order

“Buttons” and the control section

The bot uses "pseudo" buttons, to "press" the buttons you need to highlight them and drag them. All buttons use a different typeface, so they can easily be identified – the default typeface is “DIGIFACE”

The EA control section of the screen, has 2 different displays, depending on whether or not there is an open basket. The picture below shows the control section when there is no open basket.

##T101##,Daily 104771.78571 105295.14286 103500.42857 104009.85714

No. of Basket Pairs: 14 (Pair Suffix)
Pairs to be traded oppositely: USDCHF
Lot Size: 0.01

Use Market Read: No
Use Trade Logic Engine: Yes
..... Basket Opening: Yes / Basket Closing: No
..... TLE: TLE BBand Immed
..... Automatic Trading: No

Use Take Profit: Yes
..... Visual Take Profit line shown
..... Value Take Profit at 150.00 USD

Use Stop Loss: No

Use Trailing: Yes
..... Set to B/E + Lock at 10.00 USD
..... Start trailing at 25.00 USD
..... Percentage trailing at 75%

Current Minimum Profit is 0.00 USD

Hedging Allowed: Yes
..... Minimum Loss per pair to hedge: 1.00 USD
..... Visual Hedge line shown
..... Value Hedge at 100.00 USD

Excluded pairs: No

Basket Balance: -15740 / 78.57 %

MARKET READ - N/A
BUY BASKET
SELL BASKET

EA Control Section

GBPUSD (-2934)	EURGBP (-1226)
GBPJPY (-1240)	USDCHF (-7528)
NZDUSD (-2231)	AUDJPY (-408)
EURJPY (-2557)	EURUSD (-4512)
USDJPY (645)	AUDUSD (-1418)
NZDJPY (-1203)	GBPCHF (9641)
CHFJPY (-7598)	EURCHF (8825)

Basket Balance -15740 / 78.57 %

B. STOP B. LIMIT
S. STOP S. LIMIT

MetaTrader - Alpari UK, © 2001-2011 MetaQuotes Software Corp.
10 Nov 2009 24 Dec 2009 10 Feb 2010 26 Mar 2010 11 May 2010 24 Jun 2010 9 Aug 2010 22 Sep 2010 5 Nov 2010 21 Dec 2010 3 Feb 2011 21 Mar 2011 4 May 2011 17 Jun 2011 2 Aug 2011

When there is no open basket, the following is displayed / available to the user

- The ability to set the market read (only if UseMarketRead is set)
- The ability to manually buy a basket
- The ability to manually sell a basket
- The current basket “trend” values, and the total trend balance and percentage
- The ability to manually set pending buy orders (stop & limit)
- The ability to manually set pending sell orders (stop & limit)

If a pair has been excluded from the basket (either using the script !T101 Exclude Include or via F3) the pair name will have “**” as a prefix (it will also show as a list in the status section).

Pairs that are traded oppositely have their trend values reversed, so that they “appear” as the rest of the pairs in the basket.

Line Control for Pending Orders

If the user has pending orders (either manually set, or automatically created by a TLE), these will appear on the screen at their current level (the lines will be color coded and have text labels for easy identification as well as being a different style for stop & limit). To change the level, simply highlight the line and drag it to it's new level.

When there is an open basket, the following is displayed / available to the user



- The ability to set the market read (only if UseMarketRead is set)
- The ability to close the basket
- The ability to set the basket to breakeven + lock
- The current profit / loss of the total basket
- The current profit / loss of each pair in the basket (the trend value for the pair is displayed in brackets)
- If a pair is not in the basket (either because it was excluded or already closed) this will appear in a separate list
- If a pair has a “hedge” order, this will also appear in a separate list (these will be highlighted by being in the hedge color (default is orange))

Line Control for SL, TP, Hedge

If the user has selected to allow visual take profit, stop loss or hedging a horizontal line will be shown on the screen at the current level (the lines will be color coded and have text labels for easy identification). To change the level, simply highlight the line and drag it to its new level.

Special notes on hedging orders

If an order has been hedged, then the EA will no longer control that order. For instance closing the basket will only close the orders that are not hedged.

All orders that are hedged must be “un-hedged” manually.

While hedged orders exist a new basket CANNOT be opened (unless you change the magic number)

A script is available to manually hedge orders, it is !T101 Hedge One Order – you need to input the ticket number of the order you wish to hedge, if valid after confirmation it will hedge the order.

Global Parameters that can be changed during runtime

This bot uses Global Variables to hold several values that the user can modify while the bot is running. The main ones that are useful to the user are:-

Variable	Description
!T101 Dft B/E+Lock at	The amount that the breakeven & lock should be set
!T101 Dft Start Trail at	The amount that the trailing should start at
!T101 Hedge at Value	The amount that hedging should start at
!T101 Pair MinLoss for Hedge	The minimum loss for a pair before it is hedged
!T101 Stop Loss Value	The amount that stop loss should be activated
!T101 Take Profit Value	The amount that take profit should be activated
!T101 Trailing Value	The fixed amount that the basket should be trailed by
!T101 Exclude xxxxxx	Whether the pair should be included or excluded from the basket (this can also be set using the script !T101 Exclude Include)

All other global variables that this bot creates should NOT be modified unless the user is fully aware of the implications of doing so.