

Taranus – Forex Expert Advisor

May, 2016

Taranus (from the Russian word - "таран" (taran), translated - "battering ram") this is universal Forex assistant, a multi-purpose trading robot that helps a trader to earn on Forex market!

Taranus is a **semi-automatic** Expert Advisor intended for operation under control of a trader. A trader's task is to assess the market situation, select the appropriate strategy – the rest is up to the Expert Advisor! The market is changing: the strategy that was effective yesterday may not be the same today. Trader need to monitor what happens in the market and adjust the Expert Advisor's operation.

Taranus is designed for **experienced traders** familiar with the basics of technical analysis.

Key advantages:

- can work only pending or only market orders;
- pending orders, trailing pending orders are approaching closer to the price;
- can manage orders open manually;
- it can operate by one MA, two MAs or Awesome Oscillator and Parabolic SAR;
- additional filters to determine the direction of the trend: Avto_Trend 1 and Avto_Trend 2;
- it can operate without the indicators, if you selected one direction (Buy or Sell);
- for trade on flat there are trade levels, which can run on the breakout and on the bounce;
- automatic trading on the news;
- trailing stop by Volumes;
- closure orders by the percentage of profit / loss;
- several Expert Advisors Taranus can work on gross profit and taking into account the gross loss;
- opening and closing time of orders (days, hours, minutes, seconds);
- operates on 4- and 5-digit accounts.

Hot keys

F7 – opens properties window of the Expert Advisor

Shift + 0 – closes absolutely all trades opened in the terminal and deletes all pending orders.

To do it, you need to place the cursor over the price chart, where the Expert Advisor is running, click on the chart with the left mouse button (select the chart) and then press "Shift" and "0" buttons in sequence. After doing that, all the **Taranus** Expert Advisors will not be allowed to trade in the terminal.

To allow **Taranus** to trade, press "Shift" and "0" buttons again.

Top info panel:



Time – shows the time of the Expert Advisor's operation in hours and minutes according to the MetaTrader 4 terminal's time;

Balance = 496.70 – current level of account Balance;

Equity = 494.00 – current level of account Equity;

745.05 || 372.52 – planned levels of Equity, upon hitting of which with a profit (the value of 745.05 refers to profitable orders) or with a loss (the value of 372.52 refers to losing orders) the Expert Advisor will close all orders and stop its operation. These values depend on the values set in «Profit in %» and «Loss in %».

Profit = 50 % - the planned profit as a percentage of the current level of account balance;

Loss = 25 % - limits a potential loss in terms of percentage of account balance;

AutoLot = 0.30 – shows a preliminary result of automatic lot calculation;

Orders – shows the number of open orders; when the number reaches the maximum allowable value, the label will change its color to pink.

Bottom info panel:



EXTERNAL VARIABLES

The external variables used in **Taranus** are split into 10 blocks for the sake of ease of use.

Block 1 «GENERAL SETTINGS»

Block 2 «RISK MANAGEMENT»

Block 3 «THE TREND»

Block 4 «INDICATORS»

Block 5 «TRADE LEVELS»

Block 6 «ORDER TYPES»

Block 7 «TRAILING STOP»

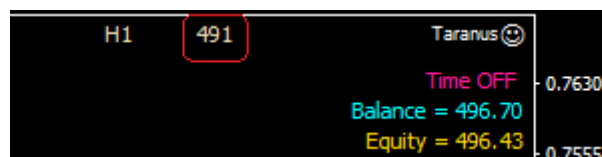
Block 8 «THE TIME»

Block 9 «NEWS TRADING»

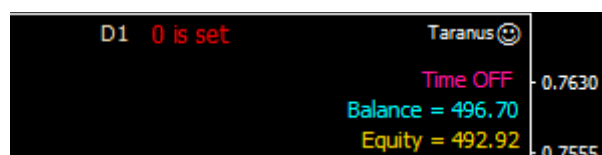
Block 10 «OTHER SETTINGS»

Block 1. GENERAL SETTINGS

Magic Number = 491 – if you plan to use several **Taranus** Expert Advisors on one account simultaneously, set an individual magic number for each Expert Advisor. In that case you'll get several Expert Advisors operating based on various strategies, simultaneously and on various instruments and thereby not conflicting with each other. The magic number will be displayed on the chart for your convenience and appear in the right corner of the terminal's screen to the left of the Expert Advisor.

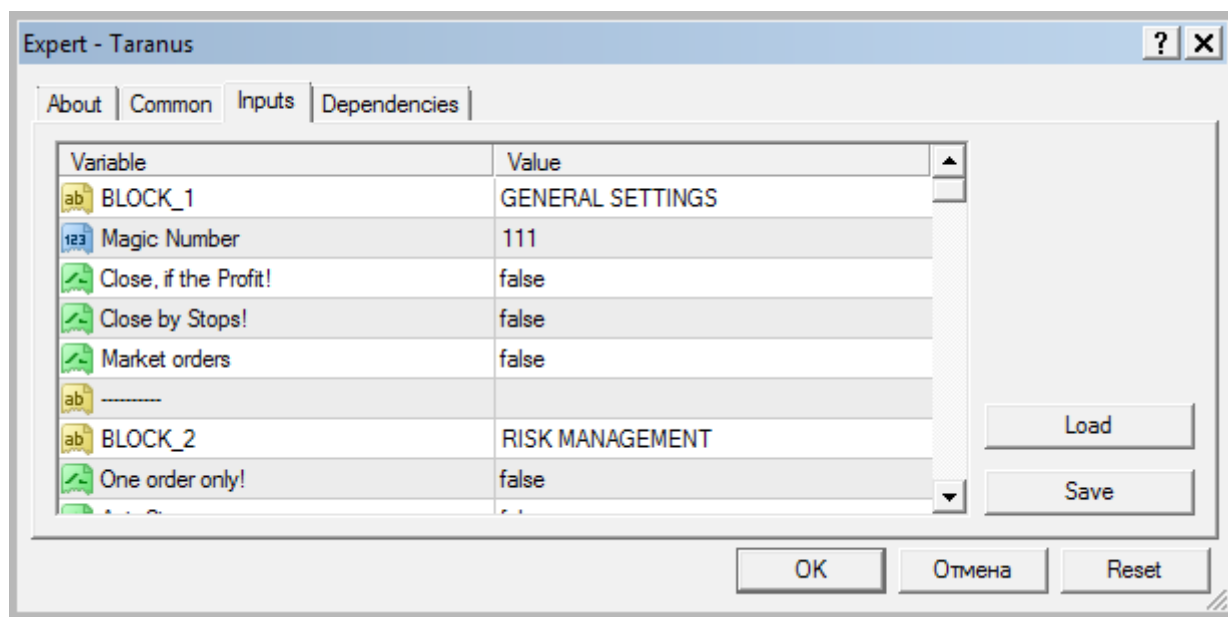


You can specify any numbers – two-digit, three-digit, four-digit, etc.



If the magic number is equal to 0, the Expert Advisor will notify you about it by this message: «0 is set».

Important: if the magic number is set to 0, the Expert Advisor will not place and open orders by itself and will manage and track orders opened by a trader manually.



Close, if the Profit! = false – if true, then all positions will be closed, when account profit is positive. When you have many open positions and a profit, and «Close, if the Profit!» is enabled, it will result in automatic closing of **absolutely all the positions** opened in your terminal and deleting the remaining pending orders (you can also press **Shift + 0** to do it).

By enabling «Close, if the Profit!» you get a chance to emerge from losses and take a profit of 1 point in case of price retracement.

Important: if «Close, if the Profit!» is enabled, at least, in one **Taranus** Expert Advisor, it will be automatically enabled in other **Taranus** Expert Advisors operating on the same account. If the gross profit is positive, absolutely all the orders opened in the terminal will be closed, and the further trading will be stopped, until a new cycle starts, and a new bar specified in «New Start upon opening bar» opens. To continue trading, you need to go to the properties of any **Taranus** Expert Advisor and press “OK” button, i.e. re-initialize the Expert Advisor. When done, all the Expert Advisors will begin their operation based on the previous strategy again.

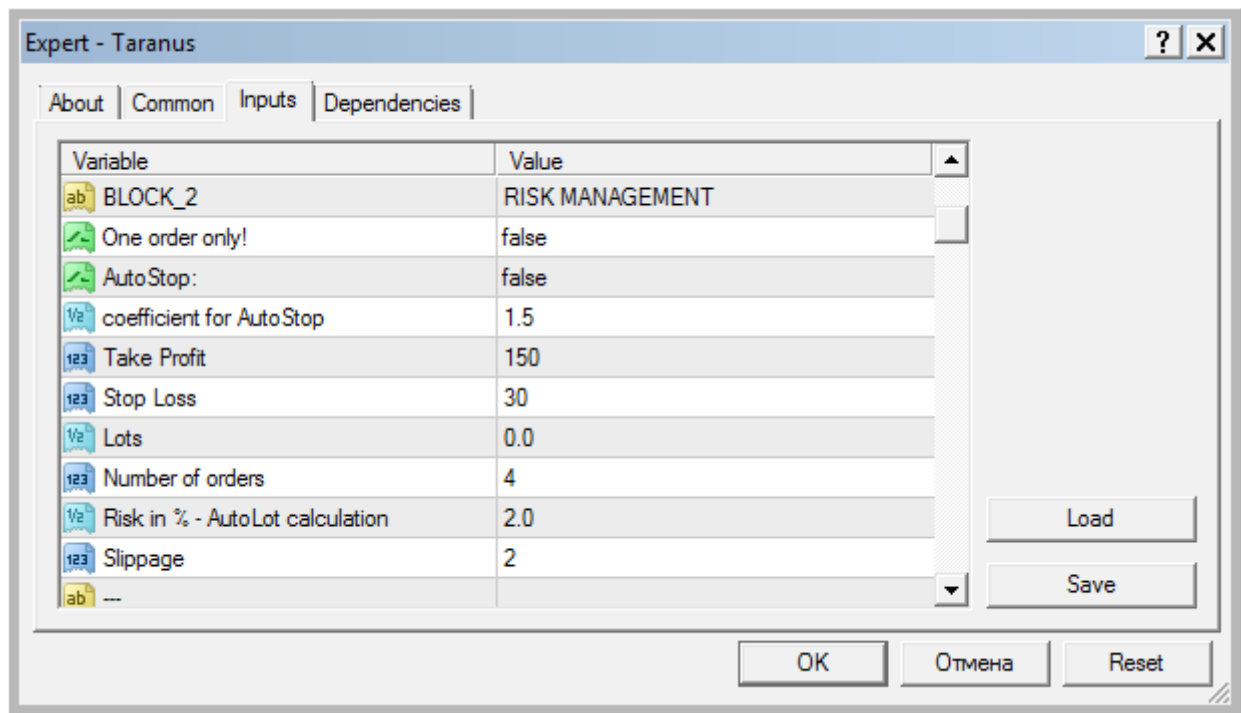
Close by Stops! = false – if the function is enabled (if set to true), the Expert Advisor will close open positions only by stop-loss or take-profit ignoring indicators’ signals (in other words, positions will not be closed by indicators’ signals). At that positions will be opened based on indicators’ signals as before. The principle behind the «Close by Stops!» functions is the same as with **trade levels**: orders will be set and positions will be opened upon a breakout of or a bounce off a trade level; positions will be closed by stop-loss or take-profit only.

Important: if the price comes back behind these levels, untriggered pending orders will be deleted.

Important: «Close by Stops!» doesn’t affect an execution of such functions as «Profit in %» and «Loss in %». If one of these functions is executed, trades will be closed, and the further trading will be stopped, until a new cycle starts, and a new bar specified in «New Start upon opening bar» opens.

Market orders = false – if the function is enabled (if set to true), the Expert Advisor will open market orders only.

Block 2. RISK MANAGEMENT



One order only! = true – enables trading by one order and in one direction only.

The strategy allows the Expert Advisor placing only one order in one direction. When the order is closed (by stop-loss or take-profit), the Expert Advisor will no longer place an order in the same direction, but it will wait for an opposite trading signal.

Such mode of operation can be used with lower timeframes – M5, M15, M30 – where the price changes its direction frequently.

AutoStop = true – enables automatic calculation of stop-loss and take-profit levels. To disable it, set it to false. The Expert Advisor gets information about the market volatility with the use of ATR (Average True Range) indicator (ATR period = 14) and H1 timeframe. ATR indicator settings are set to default values and cannot be changed. Stop-loss value is calculated on the basis of the volatility range. If you multiply the stop-loss value by 3, you'll obtain take-profit value.

coefficient for AutoStop = 1.5 – helps to select an optimal value of the AutoStop function.

1.0 is good for H1. You can decrease the coefficient up to 0.8 or 0.5 for M15. On the contrary, you can increase the coefficient from 0.1 to 1.5 or 2.5 for H4.

Important: the minimum allowable stop-loss and take-profit is not less than 10 points for AutoStop. If you need smaller stop-loss and take-profit, disable the AutoStop function and set the necessary value manually.

Take Profit = 150 - take-profit level in points;

Important: if Take Profit = 0, the Expert Advisor will set the value of take-profit to 4 points (stop-level + 1 point).

Stop Loss = 30 - stop-loss level in points. If 0 is set, trailing stop will be enabled instead of stop-loss. The trailing stop will set the stop-loss according to its parameters and follow the price in the trade direction only at the pre-set interval from the current price.

If you wish to give up using stop-loss, disable trailing stop or set its value to 0. In that case the Expert Advisor will close positions by indicators' signals only.

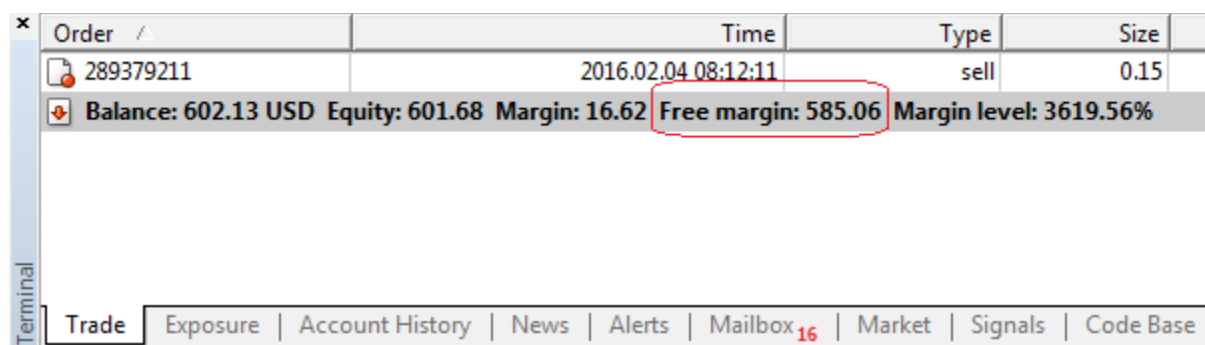
If the «Close by Stops!» function is enabled in this case, positions will be automatically closed only upon hitting a pre-set percentage of loss.

Lots = 0.01 - lot volume. It is set manually. If set to 0, the lot volume will be calculated automatically («Risk in % - AutoLot calculation» parameter).

Number of orders = 4 - the allowable number of trades opened by the Expert Advisor at a time. The maximum allowable number is 50.

Important: if «Number of orders» is set to 0, the Expert Advisor will not open trades by itself. However, it will monitor the situation of trades opened per **the selected instrument** by a trader. If the value of «Profit in %» is set, the Expert Advisor will close all the open positions and delete the remaining pending orders upon reaching a pre-set percentage of profit. The same thing will happen, if «Close, if the profit!» is enabled.

Risk in % - AutoLot calculation = 2 - level of the risk per one trade set in percentage terms. If lot volume is not set, the Expert Advisor will calculate it by itself. Lot volume calculation depends on the values of Free Margin and «Stop Loss». If Risk = 5, then it stands 5% of Free Margin – the allowable loss we can incur, if a stop-loss per one trade is triggered.



Order /	Time	Type	Size
289379211	2016.02.04 08:12:11	sell	0.15
+ Balance: 602.13 USD Equity: 601.68 Margin: 16.62 Free margin: 585.06 Margin level: 3619.56%			

Terminal

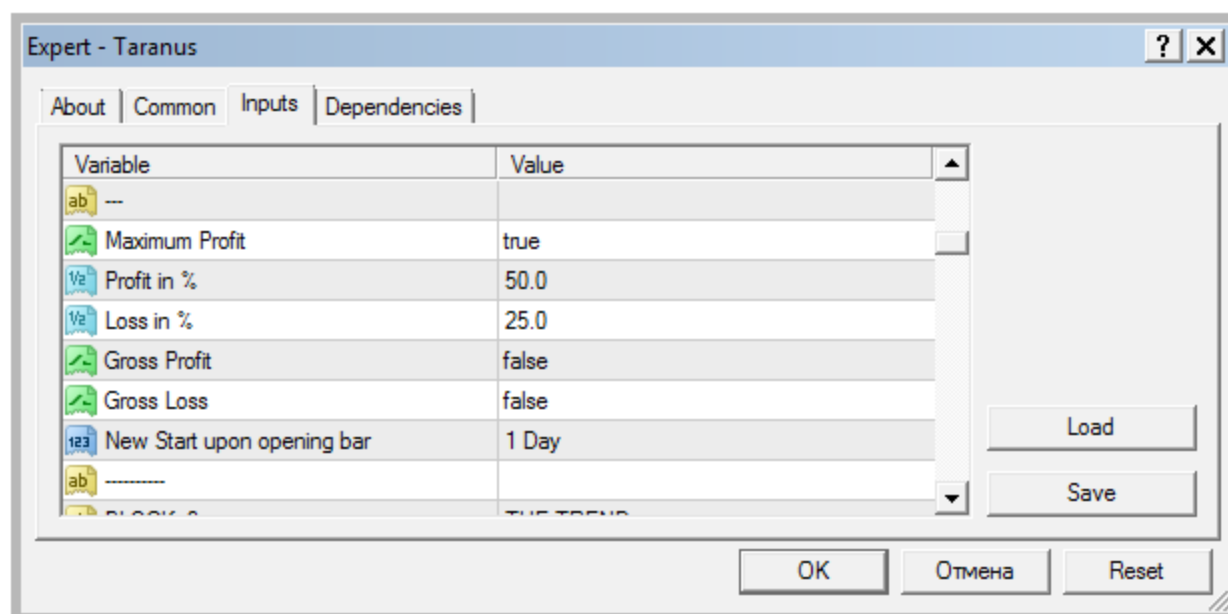
Trade | Exposure | Account History | News | Alerts | Mailbox¹⁶ | Market | Signals | Code Base

Example: if Free Margin = 100 \$, stop-loss = 20, risk = 5, then the allowable loss = 5 \$ (5% of 100 \$). After 5 \$ is divided into 20 ($5/20 = 0.25$), we obtain a lot volume equal to 0.25.

If stop-loss is triggered, we lose 5 \$ per one trade ($0.25 \times 20 = 5$ \$). If there are 2 orders, then the loss is 2 times larger – 10 \$ ($0.25 \times 2 \times 20 = 10$ \$). If stop-loss is disabled (it is set to 0), then parameters of a trailing stop will be used in these calculations.

Important: if stop-loss = 0, and trailing stop is disabled, the Expert Advisor will not be able to automatically calculate a lot volume not without a stop-loss value. That's why it will trade the minimum lot allowable for the given instrument, which is usually 0.01. At that the “**AutoLot**” label on the top info panel will change its color into pink. After giving up of using stop-loss, you can manually set a fixed lot volume.

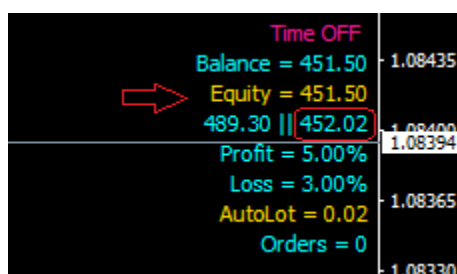
Slippage = 2 - value of slippage in points; it is better to increase the value up to 3-5 points in the volatile market;



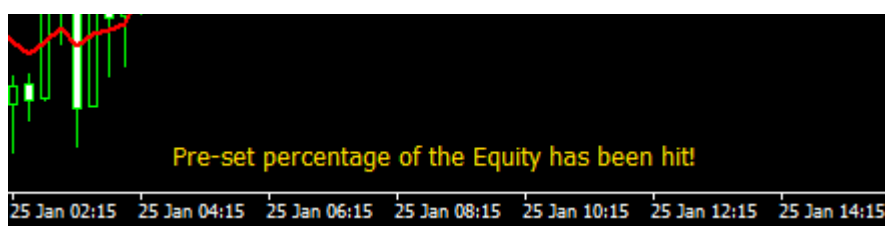
Maximum Profit = true - removes limitations in a percentage of profit; it is good for a long-term strategy and trading in the direction of a long trend;

Profit in % = 50 - closes orders, if the profit equal to the certain percentage (50%) of account Balance is hit. When the profit planned as a percentage of account Equity **for the given instrument** is hit, the Expert Advisor will close **all** the open positions and delete all the pending orders opened **for the given instrument**.

If the Expert Advisor is not disabled, the profit will be re-calculated in deposit currency allowing for a new value of Balance upon opening a new bar set in the «New Start upon opening bar» parameter, and the Expert Advisor will start a new cycle of operation.



When one of the planned values of profit or loss set as a percentage of account Equity is hit, you will see the label «Pre-set percentage of the Equity has been hit!» in the bottom of the price chart.

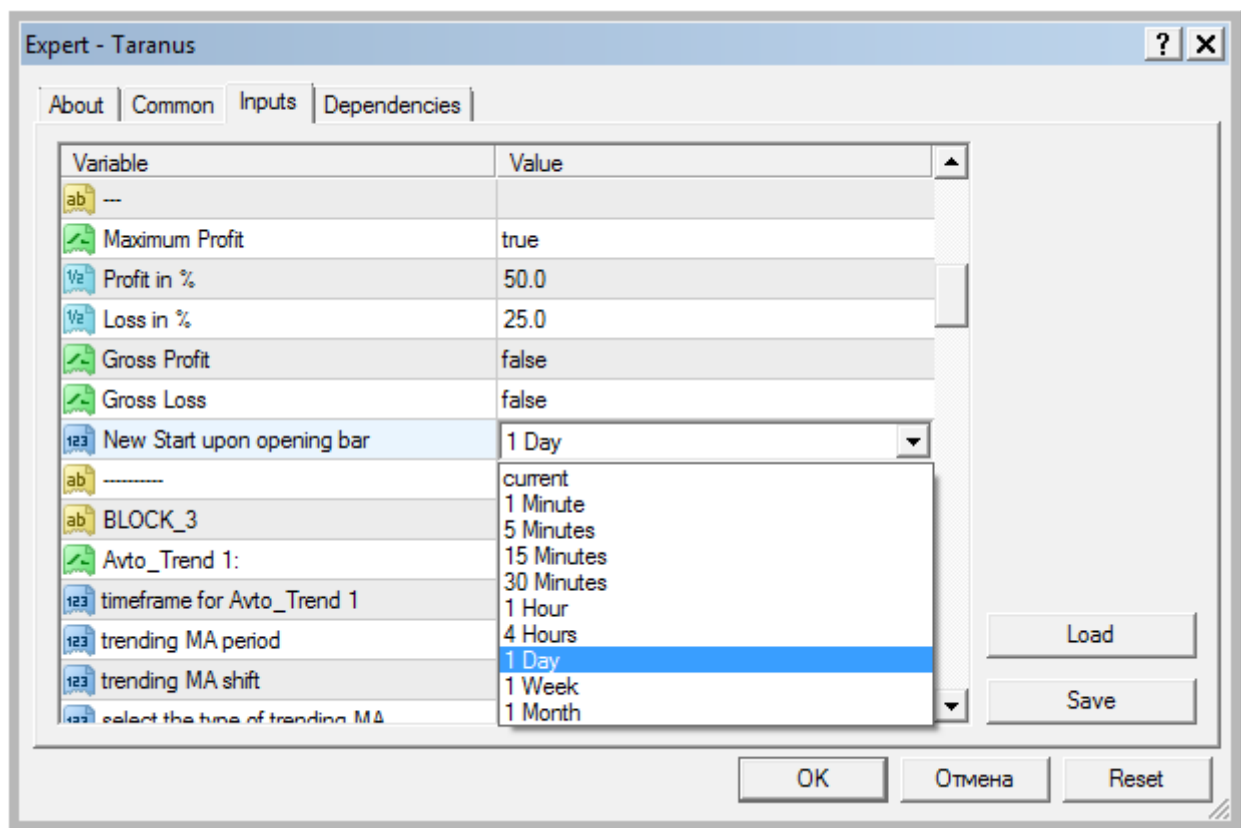


Loss in % = 25 - closes orders, if the loss equal to the certain percentage (25%) of account Balance is hit. When the loss planned as a percentage of account Equity **for the given instrument** is hit, the Expert Advisor will close **all** the open positions and delete all the pending orders opened **for the given instrument**.

If the Expert Advisor is not disabled, the loss will be re-calculated in deposit currency allowing for a new value of Balance upon opening a new bar set in the «New Start upon opening bar» parameter, and the Expert Advisor will start a new cycle of operation;

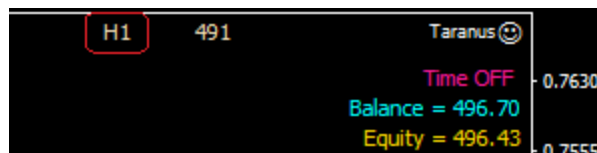
Gross Profit = false - if true, then all the **Taranus** Expert Advisors operating on the given account will track and allow for a gross profit set in «Profit in %». When account Equity hits a specified value of the profit, **all** the positions opened in the terminal will be closed, **all** the pending orders will be deleted, and all the **Taranus** Expert Advisors will stop their operation, until a new bar set in «New Start upon opening bar» parameter opens.

Gross Loss = false - if true, then all the **Taranus** Expert Advisors operating on the given account will track and allow for a gross loss set in «Loss in %». When account Equity hits a specified value of the loss, **all** the positions opened in the terminal will be closed, **all** the pending orders will be deleted, and all the **Taranus** Expert Advisors will stop their operation, until a new bar set in «New Start upon opening bar» parameter opens.



New Start upon opening bar = «1 Hour» - start of a new cycle of the Expert Advisor's operation and recalculation of risk upon opening of a bar on H1 timeframe. The given parameter sets a frequency of updating percentage values of account Equity for profit and loss in the deposit currency. When one of pre-set values of «Profit in %» and «Loss in %» is hit, the Expert Advisor will temporarily stop its operation. When a new bar opens on H1 timeframe, the planned profit and the allowable loss will be re-calculated allowing for a new value of Balance, and the Expert Advisor will start a new cycle of operation.

For the sake of ease of use the information about the current timeframe specified in the «New Start upon opening bar» parameter will be displayed on the price chart in the right upper corner next to a magic number.



Important: the timeframe specified in the «New Start upon opening bar» parameter can be selected in the range from M1 to W1 and MN1. When a new bar opens, percentage values of profit and loss will be updated, if only the previous percentage values of profit and loss are hit, and all the orders are closed.

Block 3. THE TREND

Avto_Trend 1 = true - automatically determines a trend direction on the pre-set timeframe with the use of one indicator – Moving Average (“MA” is the abbreviated name). Arrows indicating a trend direction and a timeframe, on which such a signal occurs, will appear in the right lower corner of the price chart on the bottom info panel. Up arrow – Buy signal, down arrow – Sell signal, horizontal arrow – out of the market.

timeframe for Avto_Trend 1 = «1 Hour» - a timeframe, on which a trend is identified. Select the required timeframe from a drop-down menu using the mouse. If the «current» is selected, then «Avto_Trend 1» will automatically operate on the timeframe, which is selected in the open window of the terminal at the time.

Expert - Taranus

About Common Inputs Dependencies

Variable	Value
ab BLOCK_3	THE TREND
Avto_Trend 1:	true
timeframe for Avto_Trend 1	1 Hour
trending MA period	55
trending MA shift	0
select the type of trending MA	Exponential
ab ---	
Avto_Trend 2:	true
timeframe for Avto_Trend 2	30 Minutes
Parabolic SAR:	true
step	0.08
maximum	0.1
ab ---	
BUY - Buy trades only	true
SELL - Sell trades only	true
ab -----	

Load Save

OK Отмена Reset

trending MA period = 55 - period of a trending MA based on closing prices, it indicates a trend direction;

trending MA shift = 0 - shift of a trending MA;

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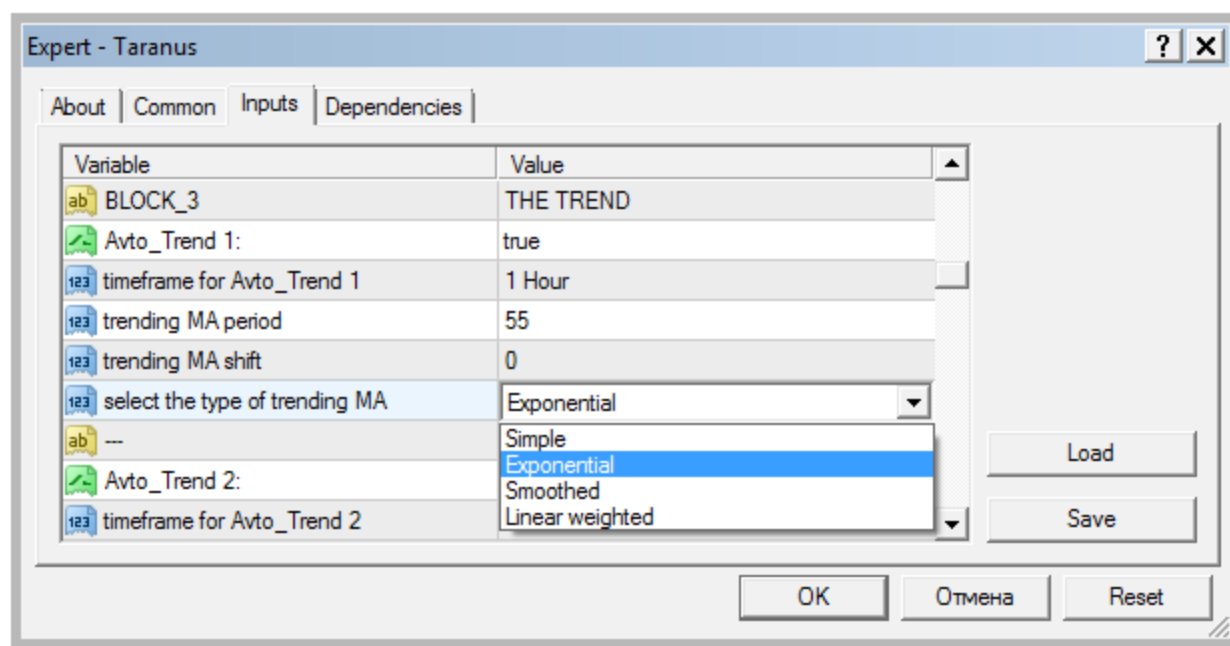
About Common Inputs Dependencies

Variable	Value
ab BLOCK_3	THE TREND
Avto_Trend 1:	true
timeframe for Avto_Trend 1	1 Hour
trending MA period	current
trending MA shift	1 Minute
select the type of trending MA	5 Minutes
ab ---	15 Minutes
Avto_Trend 2:	30 Minutes
timeframe for Avto_Trend 2	1 Hour
Parabolic SAR:	4 Hours
	1 Day
	1 Week
	1 Month

Load Save

OK Отмена Reset

select the type of trending MA = Exponential – enables selection a method of MA calculation;



When Bid price is above the trending MA, a Buy signal will be generated, and a blue up arrow will appear on the panel (in the lower right corner).



It is similarly for the opposite direction: when Ask price is below the trending MA, a Sell signal will be generated, and a red down arrow will appear on the panel (in the lower right corner).

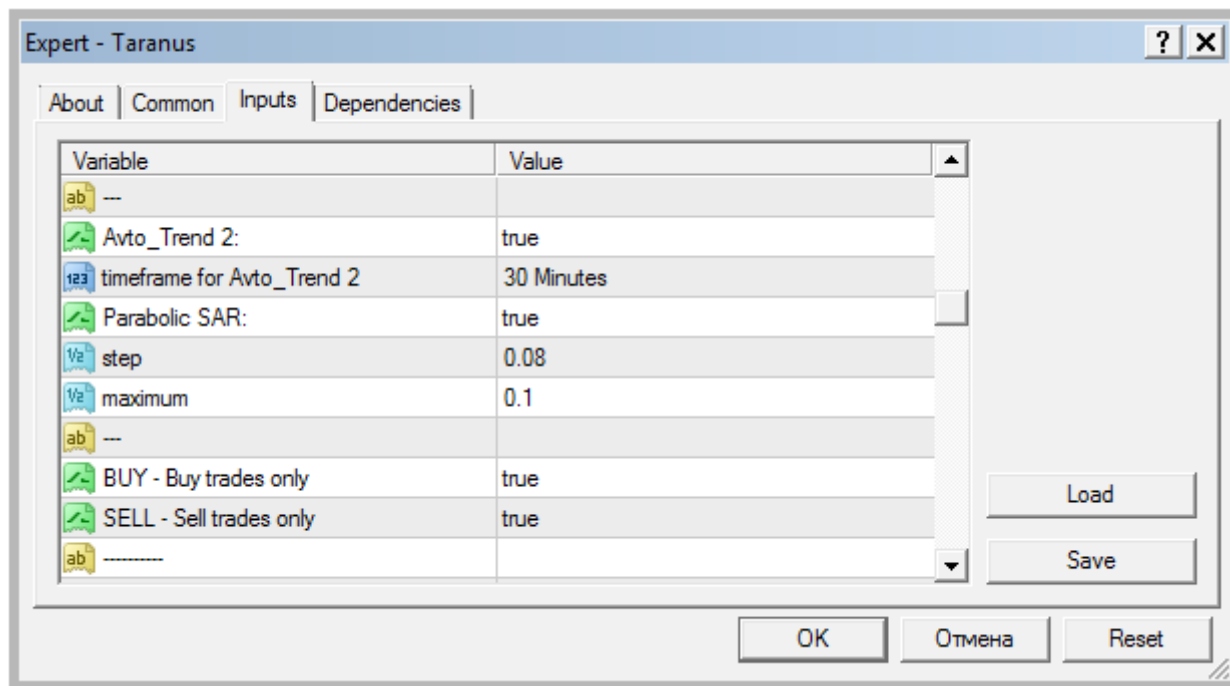


If the **Bid** price is below the trending MA, and the **Ask** price is above the trending MA, then a horizontal arrow (meaning “out of the market”) of a wheat color will appear.



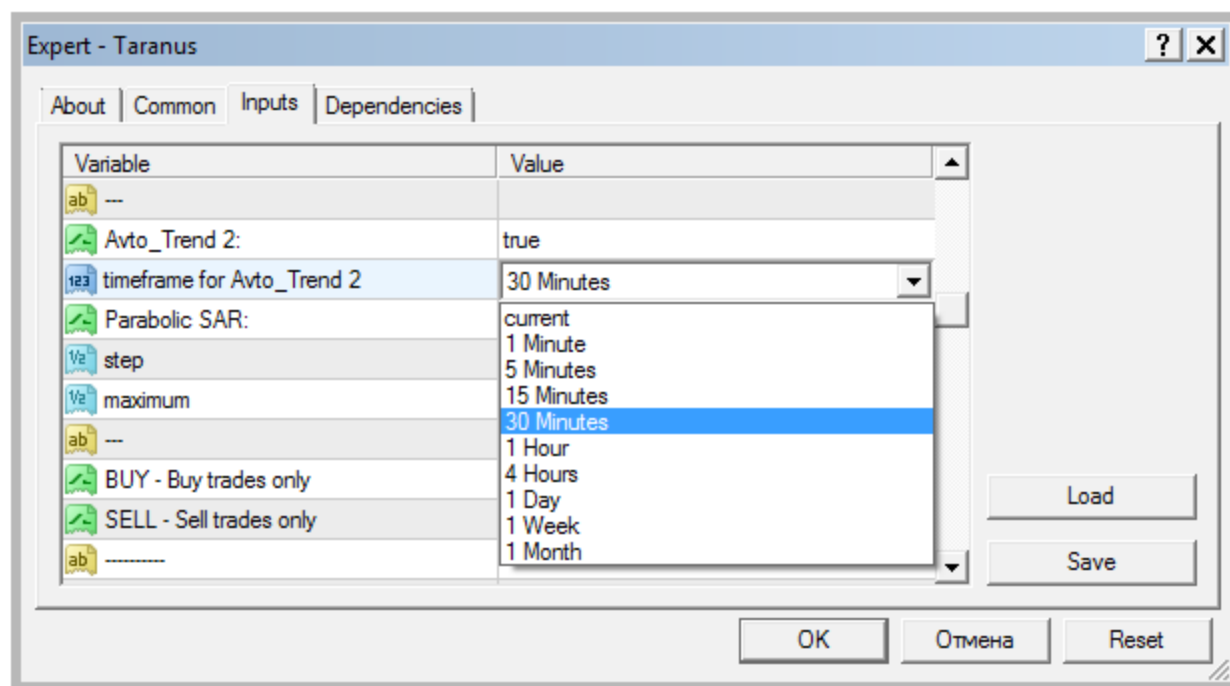
Important: «Avto_Trend 1» parameter doesn't have a mechanism of opening and closing orders by the Expert Advisor. The Expert Advisor will only disallow (not delete) opening the opposite pending orders.

Important: «Avto_Trend 1» parameter can be used in any combinations: trend identification based on a higher, current or lower timeframes. If you don't need an additional filter in the form of «Avto_Trend 1», you can disable it.



Avto_Trend 2: = true - automatically determines a trend direction on the pre-set timeframe with the use of such indicators as Awesome Oscillator and Parabolic SAR. The arrow (the second from above, i.e. in the middle) located on the bottom info panel displays readings from the «Avto_Trend 2»

timeframe for Avto_Trend 2 = «30 Minutes» - sets the timeframe, on which an additional trend is identified. Select the required timeframe from a drop-down menu using the mouse. If the «current» is selected, then «Avto_Trend 2» will automatically operate on the timeframe, which is selected in the open window of the terminal at the time.



Parabolic SAR: = true - the Parabolic SAR indicator is used to filter out false signals coming from the Awesome Oscillator. If the indicator is disabled, then trend direction will be identified based only on the Awesome Oscillator in the «Avto_Trend 2» parameter;

step = 0.08 – step Parabolic;

maximum = 0.1 – maximum Parabolic.

If the opening price (Open) of the current bar is above the Parabolic's asterisks, and the current column of the Awesome Oscillator is above the previous one (i.e. the current column is green), it will be a Buy signal, and a blue up arrow will appear on the bottom info panel.



It is similarly for the opposite direction: if the Parabolic's asterisks are above the opening price (Open) of the current bar, and columns of the Awesome Oscillator are red (its current column is below the previous one), it will be a Sell signal, and a red down arrow will appear on the bottom info panel.



If trading signals of the Awesome Oscillator and the Parabolic indicator diverge apart, then a horizontal

arrow of a wheat color (“out of the market”), and all the pending orders set earlier will be deleted;

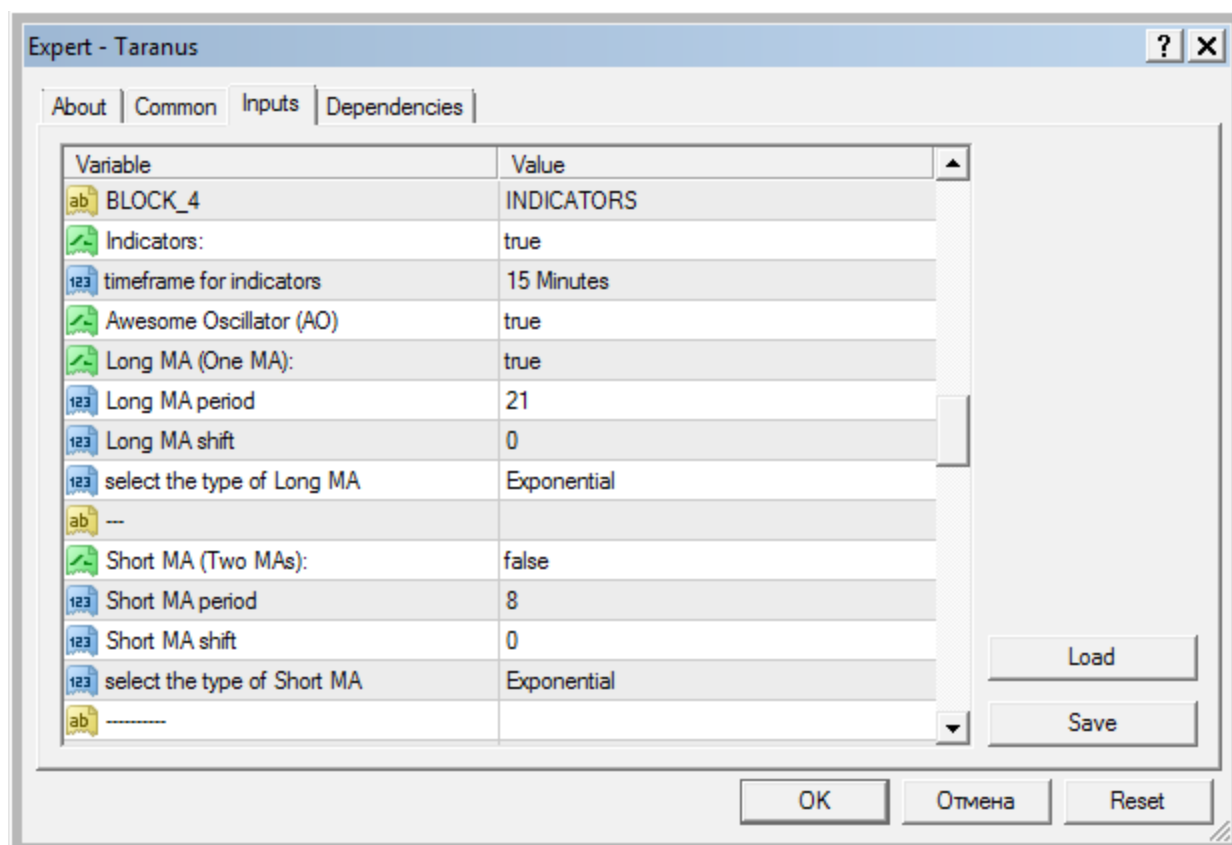


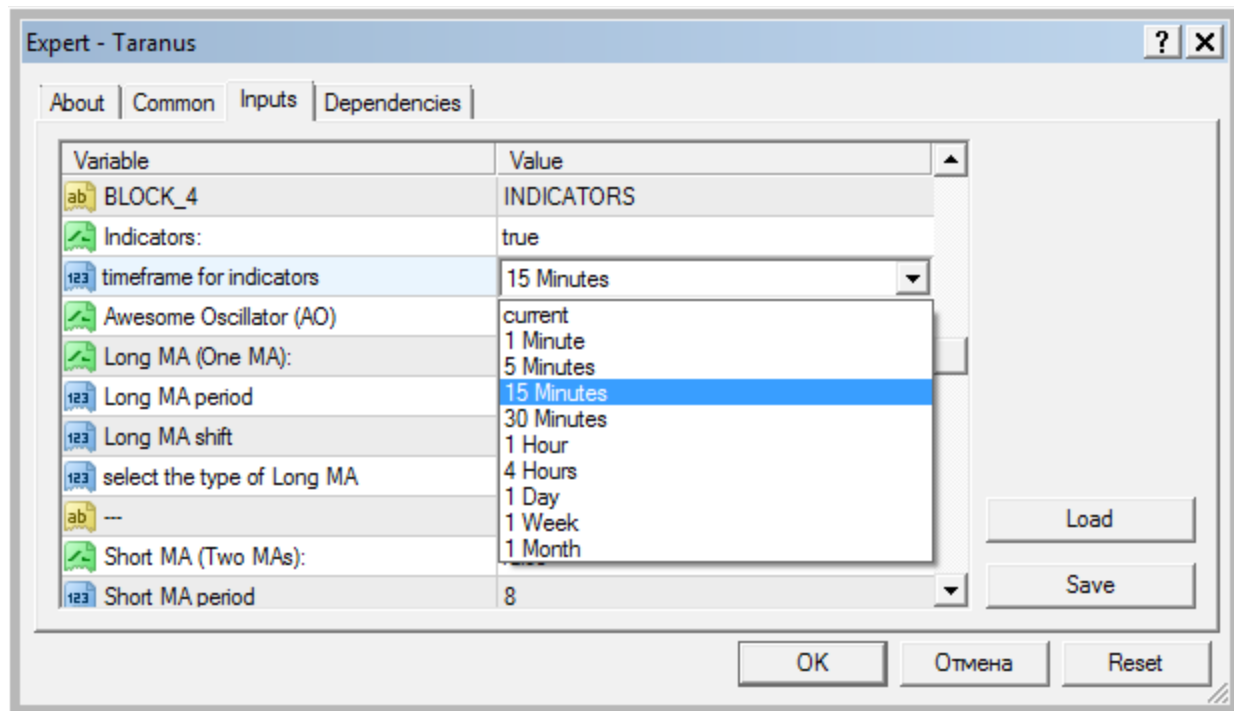
BUY - Buy trades only = true - buy only, false – don't buy;

SELL - Sell trades only = true - sell only, false – don't sell;

Block 4. INDICATORS

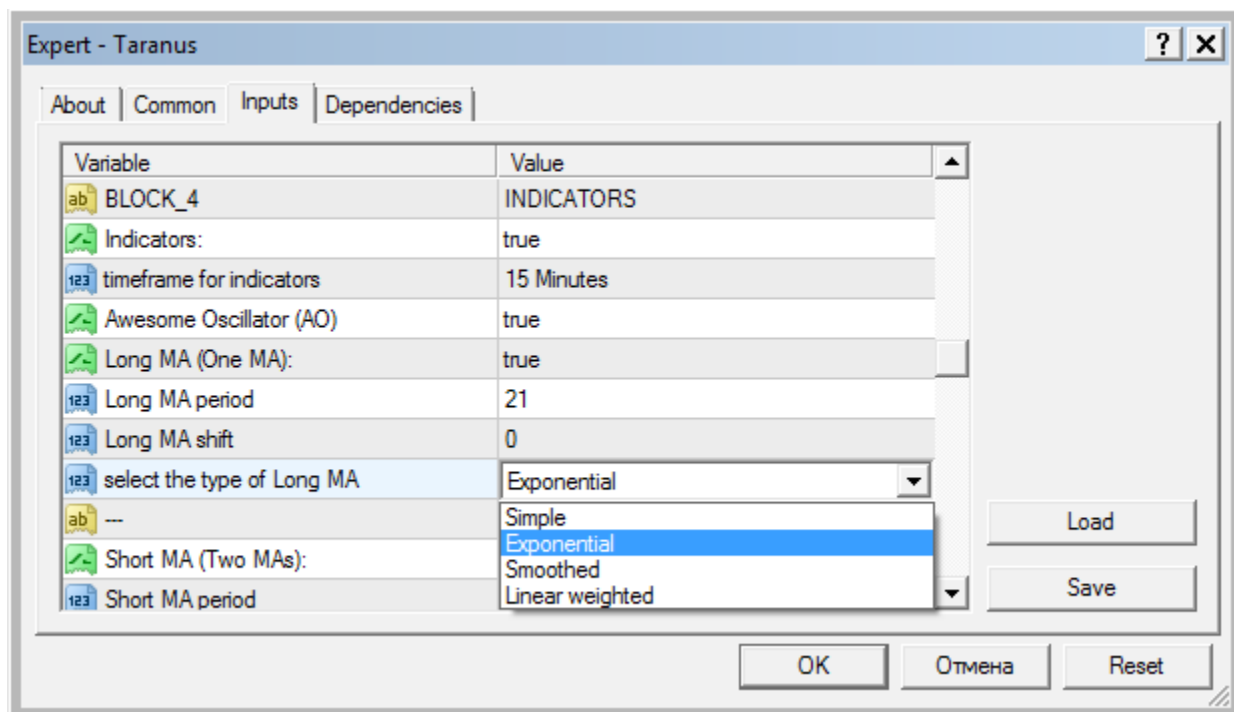
Indicators = true – enable the block of indicators; false – disable the block of indicators;





timeframe for indicators = «15 Minutes» - it is a working timeframe for indicators. Select the required timeframe from a drop-down menu using the mouse. If the «current» is selected, then indicators will automatically operate on the timeframe, which is selected in the open window of the terminal at the time.

Awesome Oscillator (AO) = true – enter the market based on the Awesome Oscillator's (AO) signals;

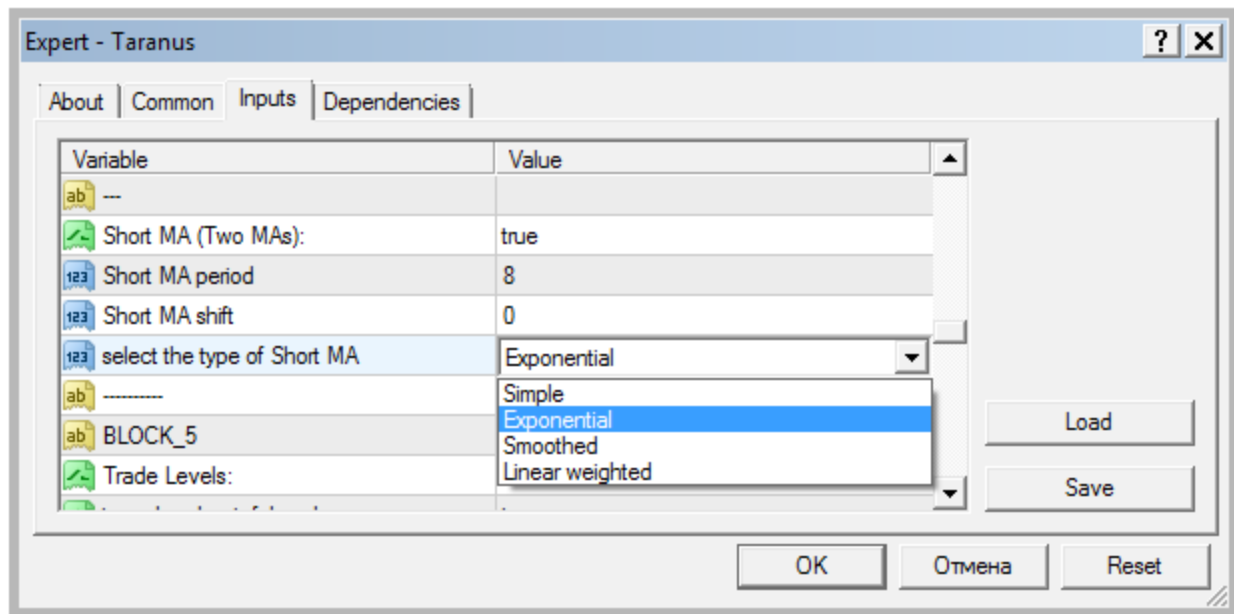


Long MA (One MA) = true – enter the market upon a **breakout** of a long Moving Average (MA); at that, «One MA» yellow label will appear in the right lower corner of the price chart.

Long MA period = 21 - period of MA based on closing prices;

Long MA shift = 0 - shift of MA;

select the type of Long MA = Exponential – enables selection a method of MA calculation;

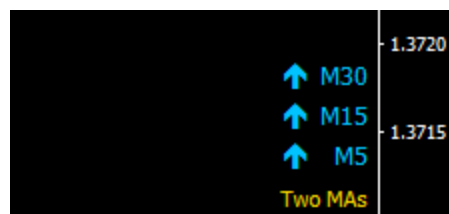


Short MA (Two MAs) = true – enter the market **upon crossover** of two moving averages – a long MA and a short MA;

Short MA period = 8 – period of MA based on closing prices;

Short MA shift = 0 – shift of MA;

select the type of Short MA = Exponential – enables selection a method of MA calculation;

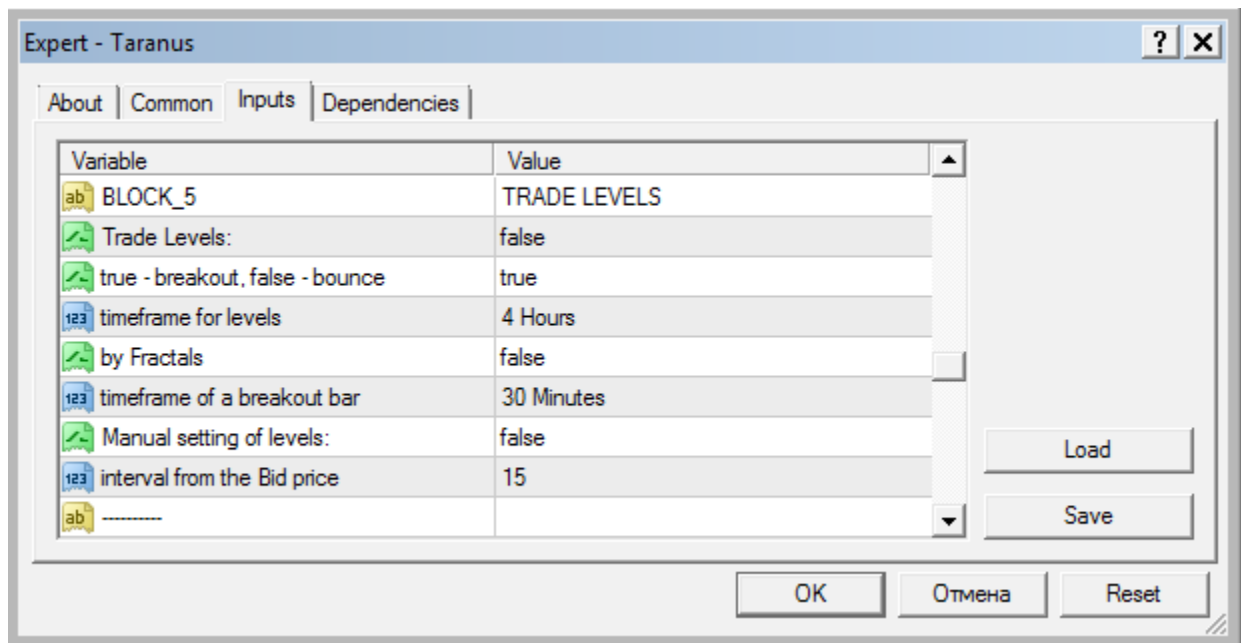


Important: Short MA will be used in a strategy of two moving averages crossover. If long and short MAs are enabled simultaneously, then trading will be carried out based on the strategy of two moving averages crossover, and «Two MAs» yellow label will be displayed on the bottom info panel. Even if «Long MA» is disabled, and only «Short MA» is enabled, the Expert Advisor will operate based on the strategy of two moving averages crossover.

Block 5. TRADE LEVELS

Trade Levels: = false – if true, then trade levels will be enabled and appear on the chart in the form of two horizontal lines of blue and red color. The lines can be drag-and-dropped using the mouse. If a trader moves the levels with the use of the mouse, and the red line is above the blue line (upon a breakout) or the blue line is above the red line (upon a bounce), then the Expert Advisor will not place pending orders.

true - breakout, false - bounce - enables selection of a strategy for using trade levels;



breakout - the blue line is above (buy from the line), and the red line is below (sell from the line).

If the **Bid** price is above the upper level (the blue line) and the opening price of the previous bar ($\text{Open}[1] < \text{Bid}$), the Expert Advisor will place pending Buy orders. At that, pending Sell orders will be deleted, and open Sell positions will be closed.



If the price goes in the opposite direction, and the **Ask** price is below the blue line, then all the pending Buy orders will be deleted, and open Buy positions will be closed. If you don't your open positions to be closed, when the price comes back in the channel, you can enable the «Close by Stops!» function. In this case open Buy positions will remain in the channel and be closed either by stop-loss or take-profit.

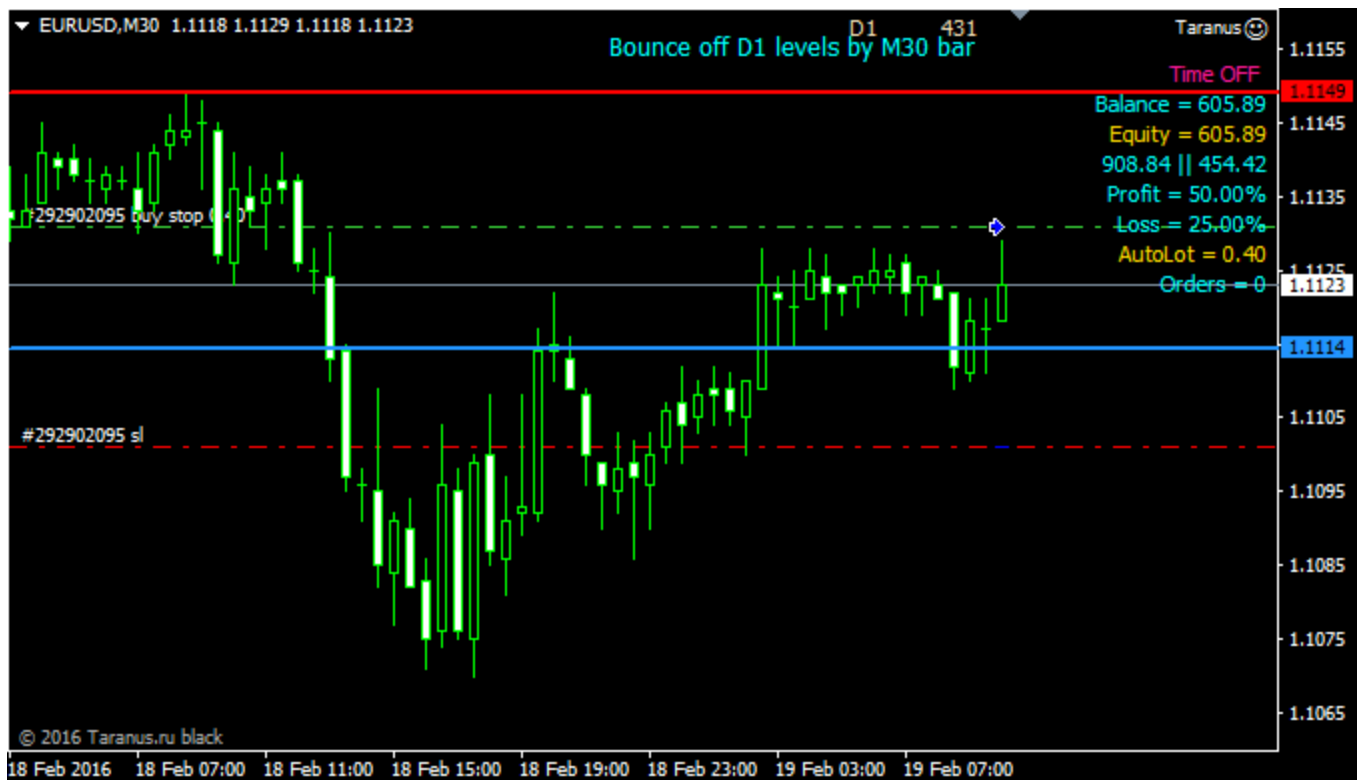
It is similarly for the opposite direction: if the **Ask** price is below the lower level (the red line) and the opening price of the previous bar ($\text{Open}[1] > \text{Ask}$), the Expert Advisor will place pending Sell orders. At that, pending Buy orders will be deleted, and open Buy positions will be closed.



If the price goes in the opposite direction, and the **Bid** price is above the red line, then all the pending Sell orders will be deleted, and open Sell positions will be closed. If you don't your open positions to be closed, when the price comes back in the channel, you can enable the «Close by Stops!» function. In this case open Sell positions will remain in the channel and be closed either by stop-loss or take-profit.

bounce - the blue line is below (buy from the line), and the red line is above (sell from the line).

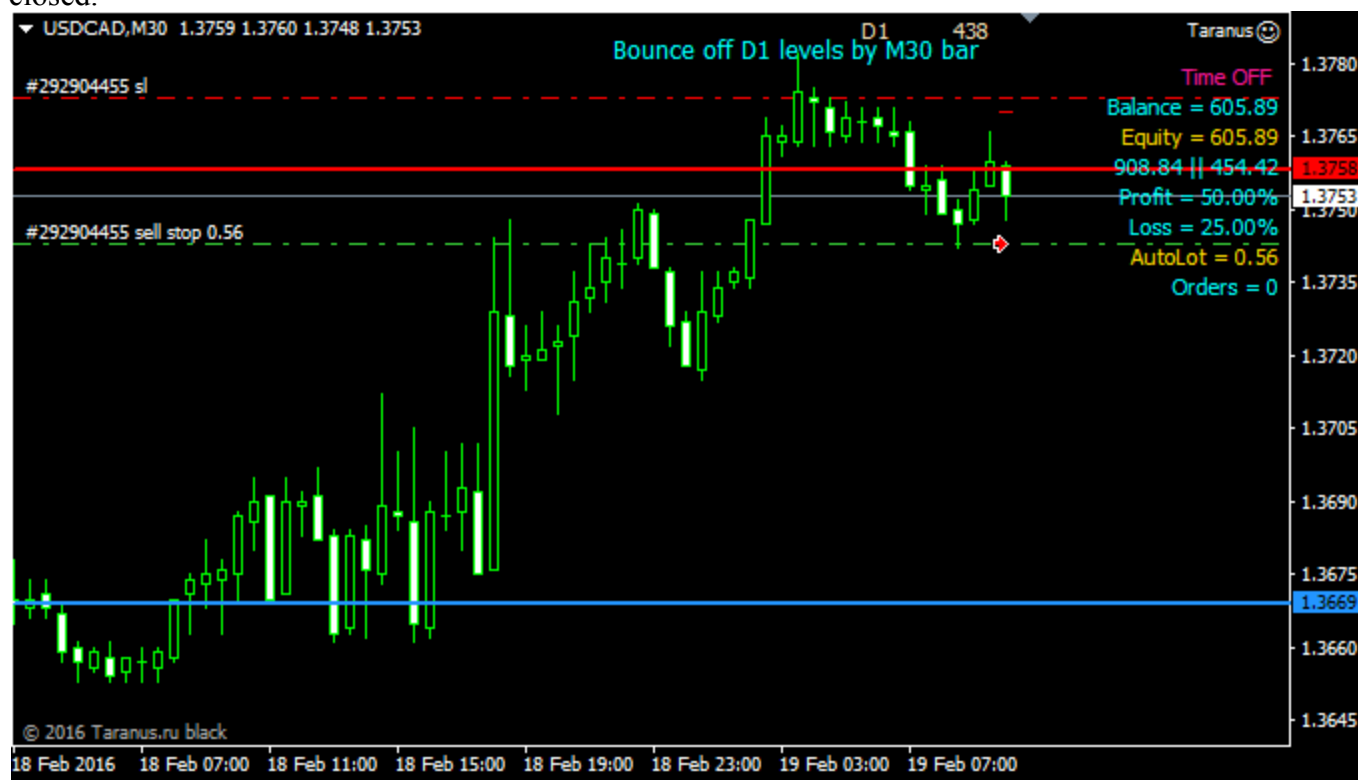
If the **Low** price (the minimum price) of the previous bar [1] is below or at the lower (blue) line, and the current **Bid** price is above the lower line, the Expert Advisor will place pending Buy orders. At that, pending Sell orders will be deleted, and open Sell positions will be closed.



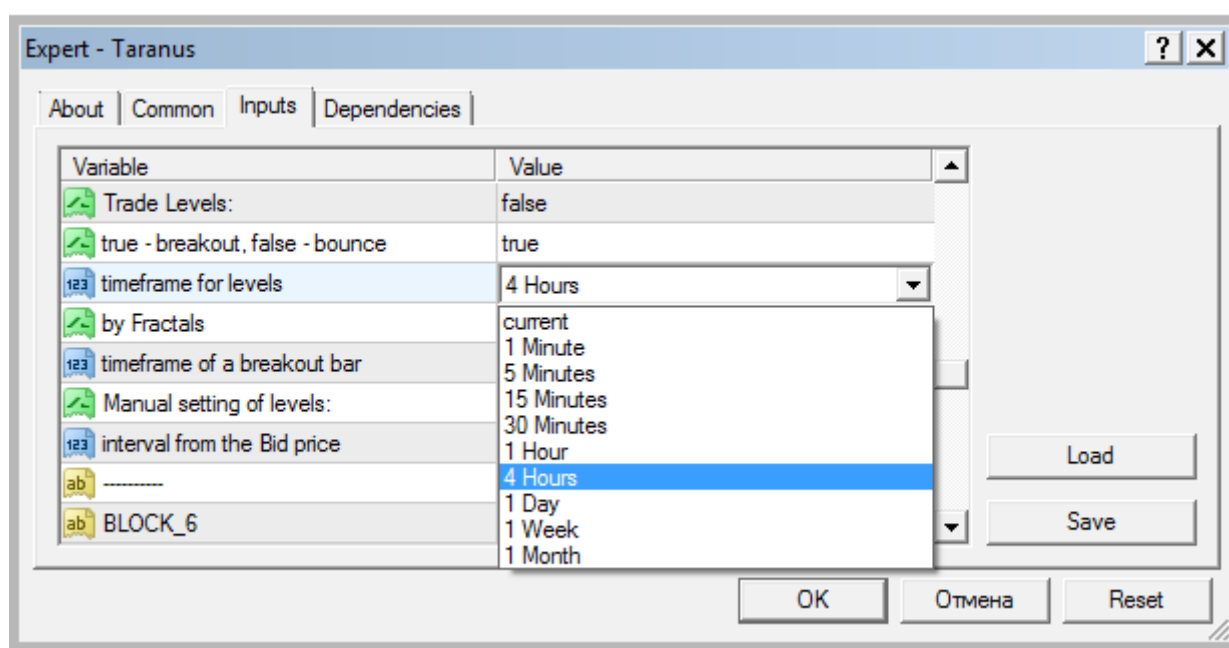
If the price goes in the opposite direction, and the **Ask** price is below the blue line, then all the pending Buy orders will be deleted, and open Buy positions will be closed. If you don't your open positions to be

closed, when the price comes back in the channel, you can enable the «Close by Stops!» function. In this case open Buy positions will be closed either by stop-loss or take-profit.

It is similarly for the opposite direction: If the **High** price (the maximum price) of the previous bar [1] is above or at the upper (red) line, and the current **Ask** price is below the upper line, the Expert Advisor will place pending Sell orders. At that, pending Buy orders will be deleted, and open Buy positions will be closed.



If the price goes in the opposite direction, and the **Bid** price is above the red line, then all the pending Sell orders will be deleted, and open Sell positions will be closed. If you don't your open positions to be closed, when the price comes back in the channel, you can enable the «Close by Stops!» function. In this case open Sell positions will be closed either by stop-loss or take-profit.

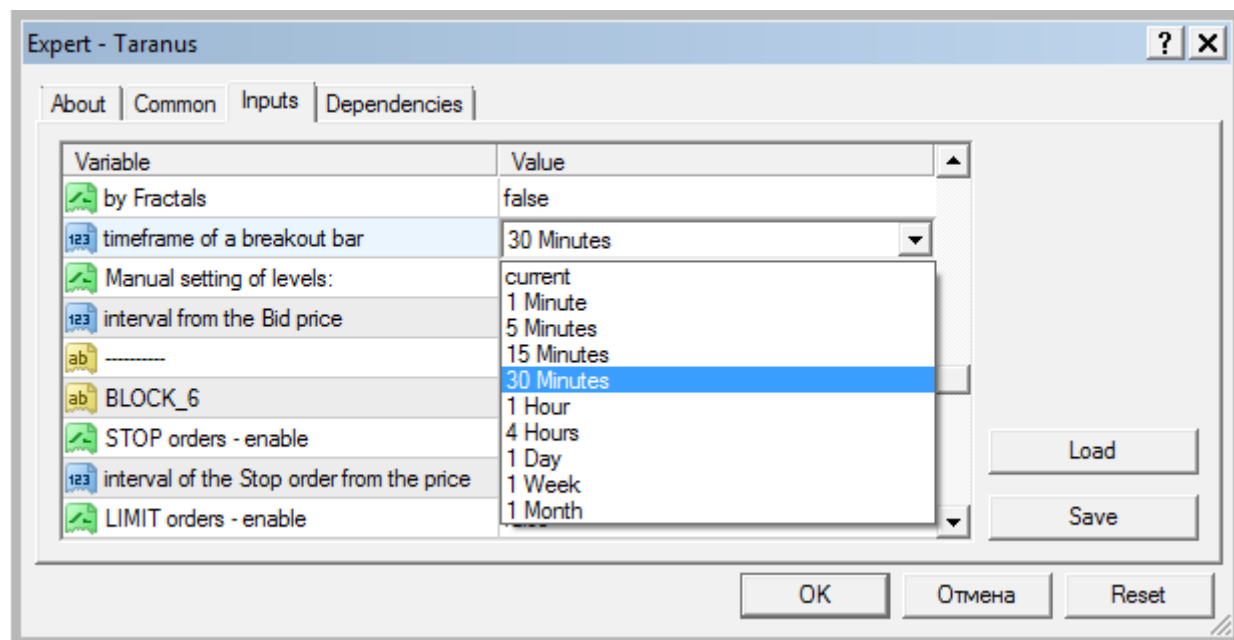


timeframe for levels = «4 Hour» - enables selection a timeframe, on which levels are built based on High and Low prices of the previous bar. Select the required timeframe from a drop-down menu using the

mouse. If the «current» is selected, then levels will be automatically built based on the bar of that timeframe, which chart is opened in the terminal at the time.

by Fractals = false - the trade levels will be built based on the last fractals on the selected timeframe.

timeframe of a breakout bar = «15 Minutes» - enables selection a “breakout bar”, i.e. the timeframe, on which the bar breaks through (or bounces off) a trade level. Select the required timeframe from a drop-down menu using the mouse. If the «current» is selected, then the bar of the timeframe, which chart is opened in the terminal at the time, will act as the “breakout bar”.

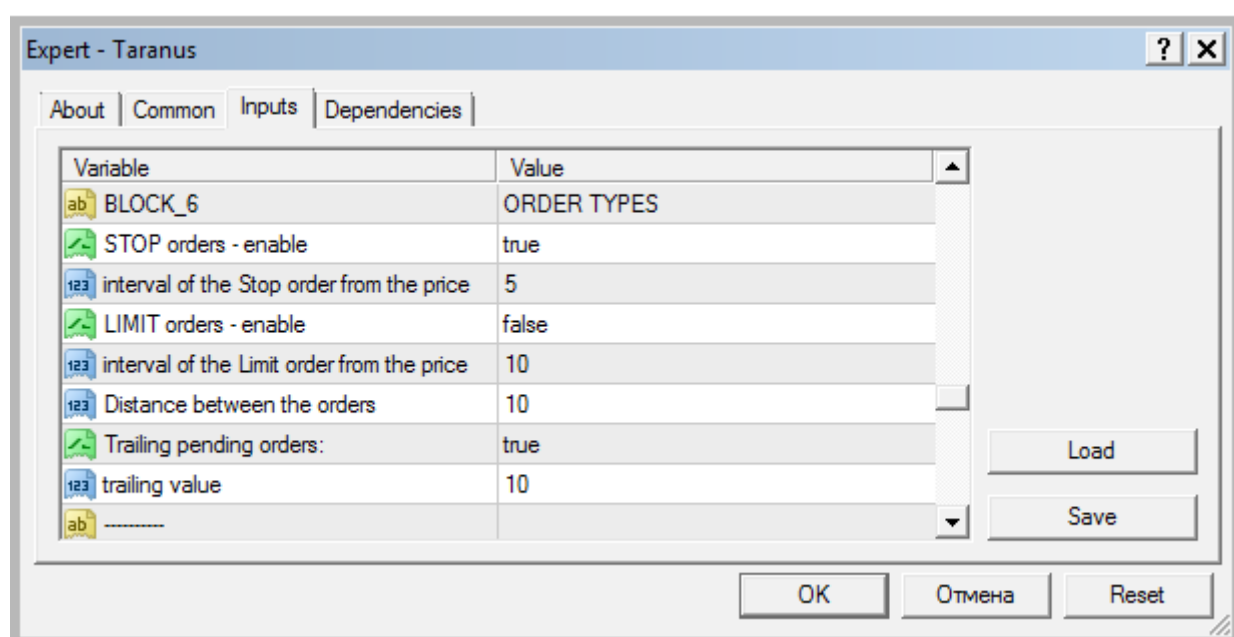


Manual setting of levels: = false - if the function is enabled (if true), levels will be built at the distance equal to the selected interval from the current **Bid** price;

interval from the Bid price = 20 - interval (in points) between the **Bid** price and every level;

Important: if one of the trade levels has been broken through, and there are open positions, the Expert Advisor will cease to move the trade levels automatically, until all the positions are closed. However, a trader can manually move the levels at his own discretion.

Block 6. ORDER TYPES



STOP orders - enable = true - allows opening Sell Stop and Buy Stop orders; select “false” to disable;
interval of the Stop order from the price = 5 - interval (in points) between the current price and the closest (to the current price) pending Stop order;

LIMIT orders - enable = true - allows opening Sell Limit and Buy Limit orders; select “false” to disable;
interval of the Limit order from the price = 10 - interval (in points) between the current price and the closest (to the current price) pending Limit order;

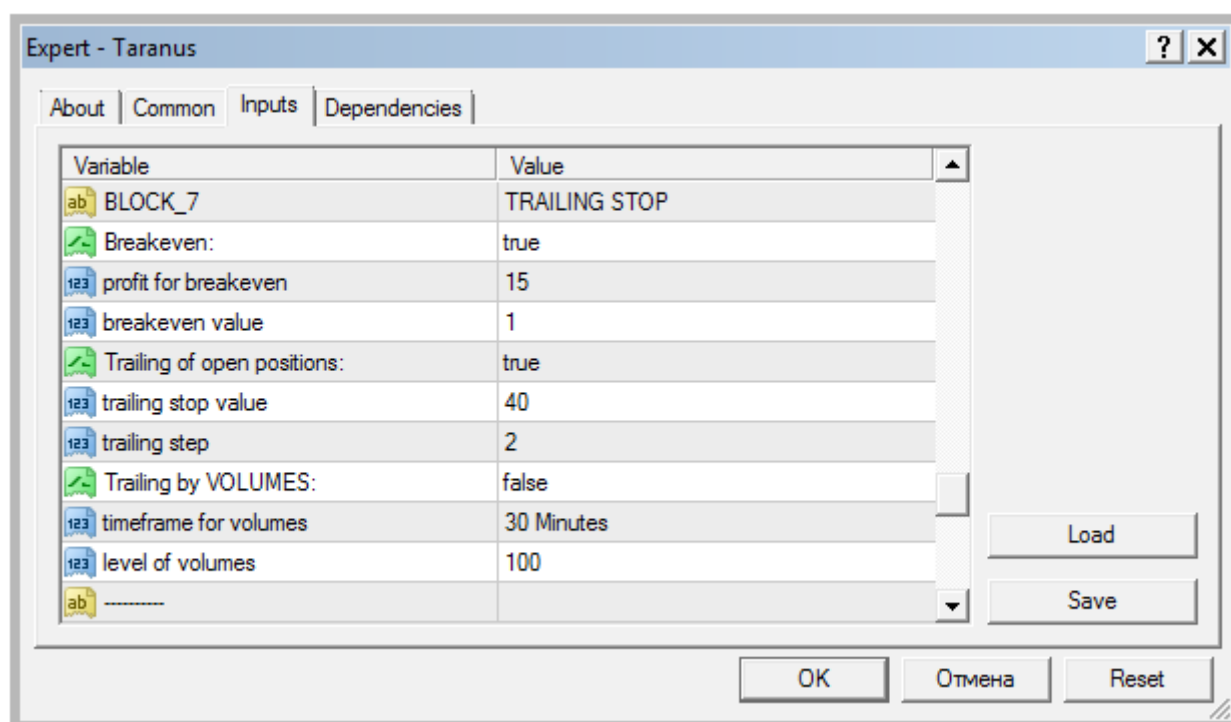
Distance between the orders = 10 - interval (in points) between pending orders;

Trailing pending orders: = true - enables trailing of pending orders; select “false”, if you wish to disable following of the pending orders after the price;
trailing value = 10 - when the price starts to move from a pending order, the Expert Advisor will move (i.e. modify) the pending order in the direction of and at the certain interval from the price maintaining the pre-set distance between the pending orders.

Important: if the Expert Advisor is removed from the chart, the remaining pending orders will be deleted automatically. The same thing will happen, if the terminal is closed or restarted.

Advice: interval of pending orders from the current price should be selected individually. The interval depends on your strategy, rate of your trading aggression, and the timeframe, which you work on.

Block 7. TRAILING STOP



Breakeven: = true – enables a breakeven, if there is a small profit, and trailing has not been enabled yet, the Expert Advisor will move a stop-loss to the level , at which an order has been opened, and close the position, when the stop-loss is triggered;

profit for breakeven = 15 – level of take-profit in points, at which a breakeven is enabled;

breakeven value = 1 – sets the level, at which a stop-loss must be moved; if set to 1, then the position will be closed, when the profit is 1 point; if set to 0, then the position will be closed with the profit of 0

points, when a stop-loss is triggered;

Trailing of open positions: = true – trailing is enabled; false – trailing is disabled;

trailing stop value = 25 - trailing stop level in points;

trailing step = 1 - step of trailing: if the profit is 25 points, trailing will move a stop-loss to 1 point;

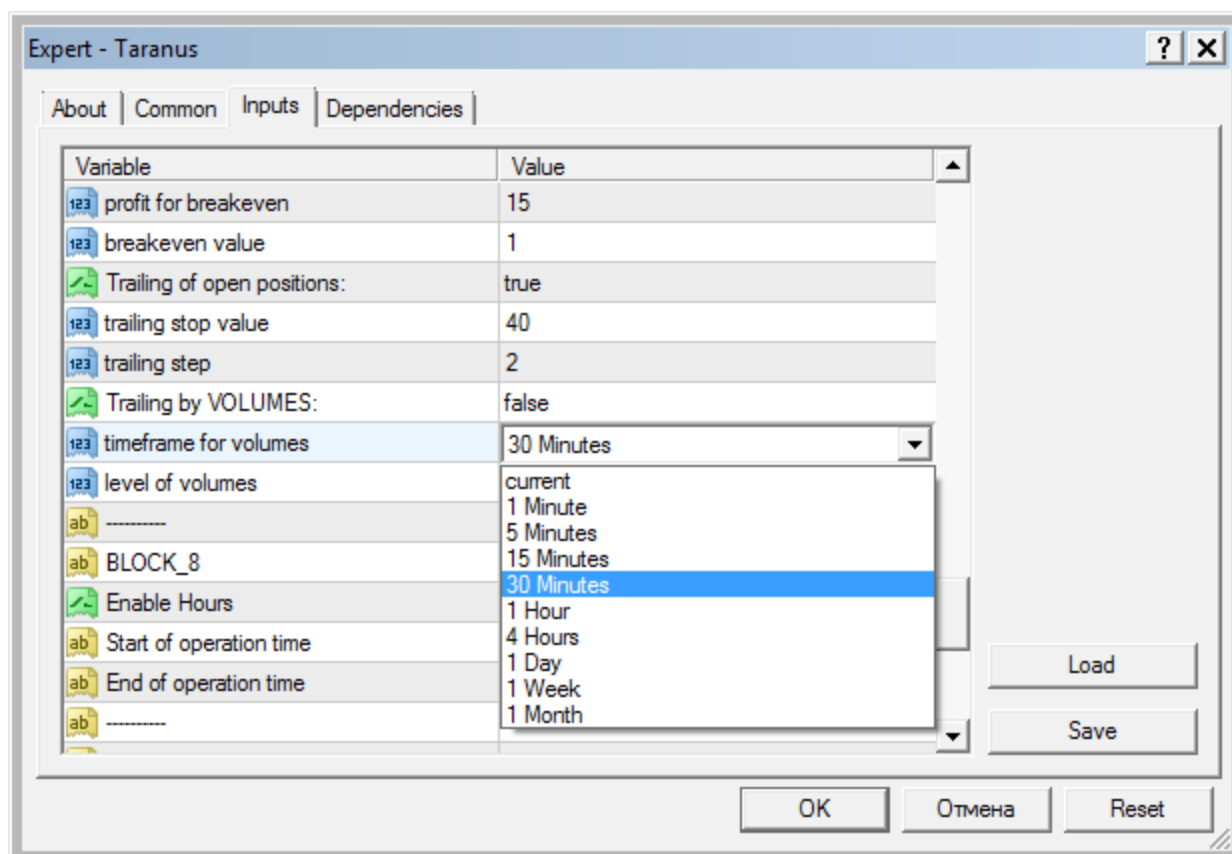
Important: trailing can act as a stop-loss and make the stop-loss mobile, if value of «Stop Loss» parameter is set to 0, then the trailing stop will take over the function of the stop-loss. The trailing stop will immediately place stop-loss having a negative value and “pull” the stop-loss after the price as the price goes.

Important: if trailing is disabled, and value of «Stop Loss» is equal to 0, stop-loss will not be placed, and the Expert Advisor will operate without stop-loss.

Trailing by VOLUMES: = true – enables trailing by volumes;

The idea behind the trailing is that the market volatility increases as trading volumes grow; trailing will be temporarily enabled to wait out these price fluctuations. As soon as the volumes fall below the pre-set level, the trailing will be enabled again. It might be useful during news trading. A standard MT4 volume indicator – “**Volumes**” – is used to calculate volumes;

timeframe for volumes = «M5» - sets the timeframe, on which you can monitor the Volumes indicator. Select the required timeframe from a drop-down menu using the mouse.

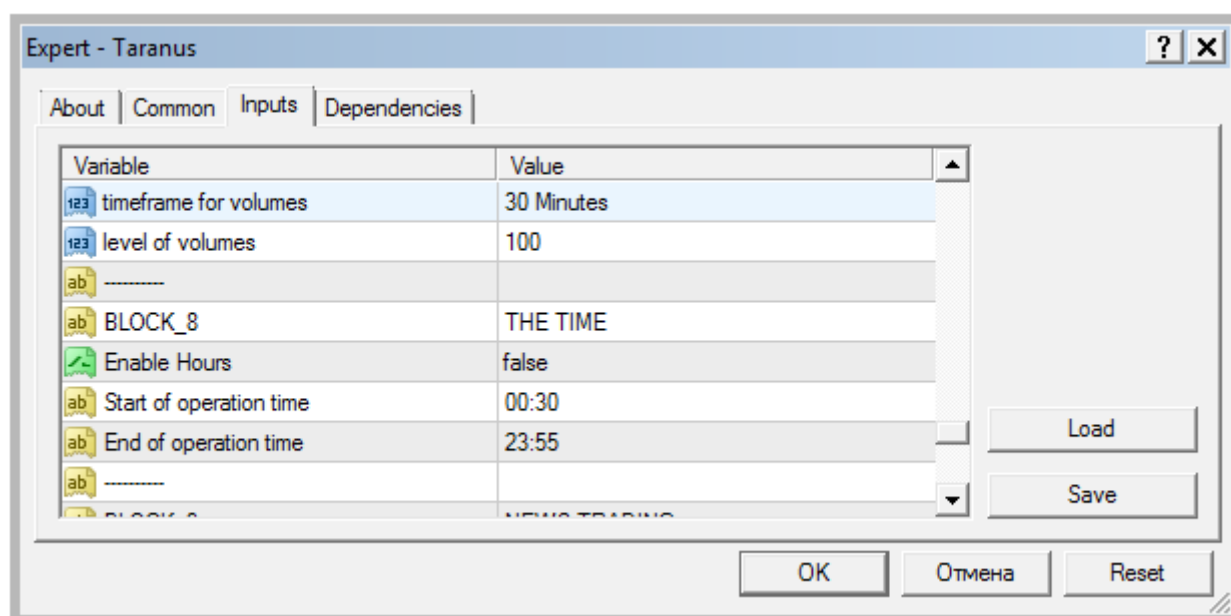




level of volumes = 100 – sets the level of volumes. Trailing is enabled, if columns of a volume histogram are lower than a pre-set level – 100 (<100); if the columns are higher than the level, then trailing will be temporarily disabled, until the columns are lower than the pre-set level;

Important: the level of volumes = 100. The given value of the parameter is good for 4-digit quotes. For 5-digit currency quotes and spot gold prices the level of volumes must be increased by 10 times.

Block 8. THE TIME



You can set a period of time, during which the Expert Advisor operates. After the set period of time has passed, the Expert Advisor will close all the positions (profitable and losing) and delete all the pending orders. At the start of the new period of time (usually it is the next day) the Expert Advisor will start its operation again.

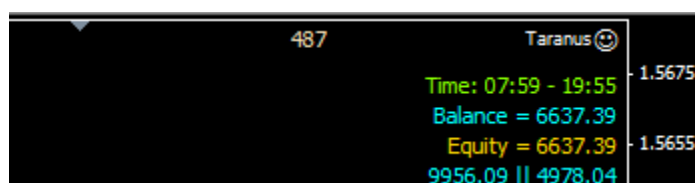
Enable Hours = true – the period of time is enabled, false – the period of time is disabled;

Start of operation time = 00:30 - the time, when the Expert Advisor starts to operate, set in hours and minutes;

End of operation time = 23:55 - the time, when the Expert Advisor stops its operation, set in hours and minutes;

There are several options of how to set the operation time of the Expert Advisor:

1st option: usual method – the operation time is set in **hours and minutes** a two-spot (:) between hours and minutes is put;



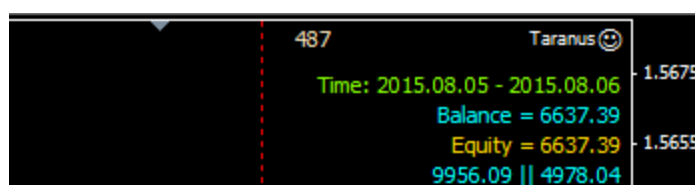
487	Taranus 😊	
Time: 07:59 - 19:55		1.5675
Balance = 6637.39		
Equity = 6637.39		1.5655
9956.09 4978.04		

2nd option: setting up a year, a month, a day, an hour and a minute of start and end of the operation. A point is put between a year and a month, and also between a month and a day, then a space without a point is put, and afterwards a two-spot (:) between an hour and a minute is put;



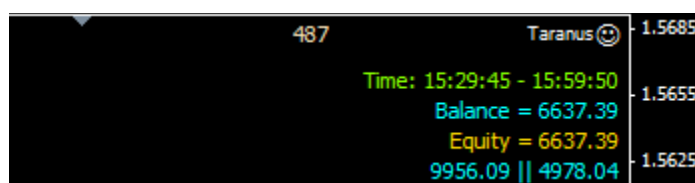
487	Taranus 😊	
Time: 2015.08.05 15:00 - 2015.08.06 10:55		1.5675
Balance = 6637.39		
Equity = 6637.39		1.5655
9956.09 4978.04		

3rd option: setting up a day of start and a day of end of the operation are set. A year, a month and a day of start and a day of end of the operation are set up in the Expert Advisor's settings. A point is put between a year and a month, but not after a day. The Expert Advisor will start operation at 00:00 and stop operation at 00:00 on the pre-set day.



487	Taranus 😊	
Time: 2015.08.05 - 2015.08.06		1.5675
Balance = 6637.39		
Equity = 6637.39		1.5655
9956.09 4978.04		

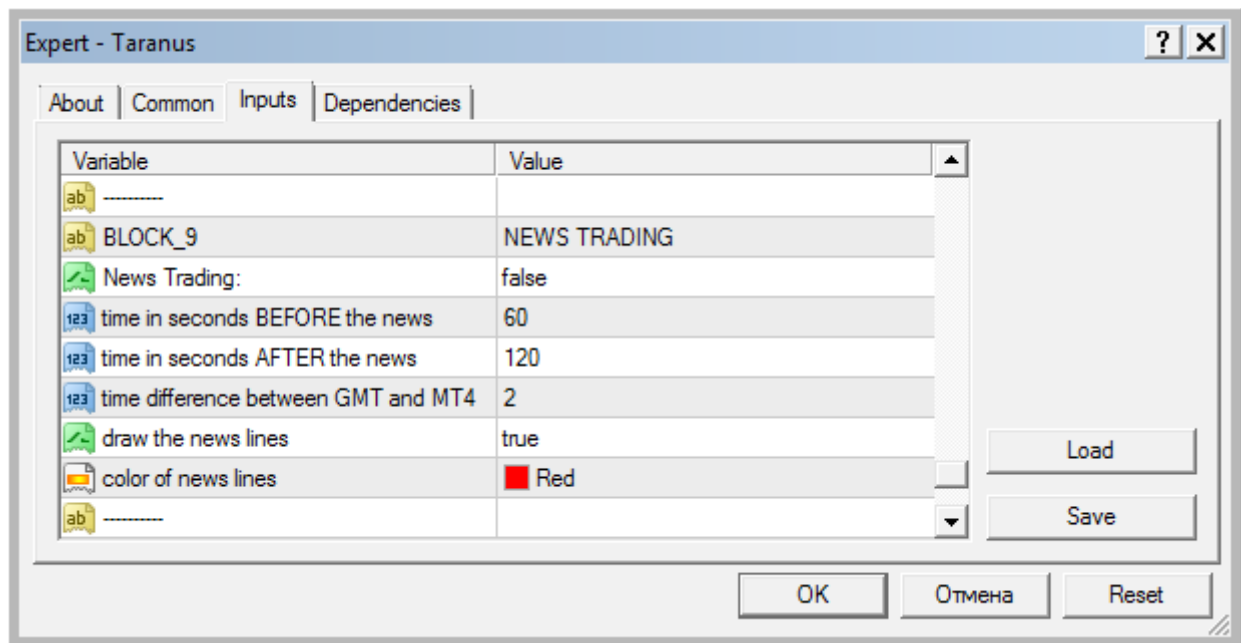
4th option: time of start and end of operation can be set **within the accuracy of one second!** A two-spot is put between an hour and a minute, and also between a minute and a second.



487	Taranus 😊	1.5685
Time: 15:29:45 - 15:59:50		1.5655
Balance = 6637.39		
Equity = 6637.39		1.5625
9956.09 4978.04		

In this case we cannot ensure that the Expert Advisor will start and stop its operation within the accuracy of one second: it will largely depend on the quality of quotes arriving from a broker and the quality and the stability of your Internet connection.

Block 9. NEWS TRADING



The block is intended for automating trading in the news.

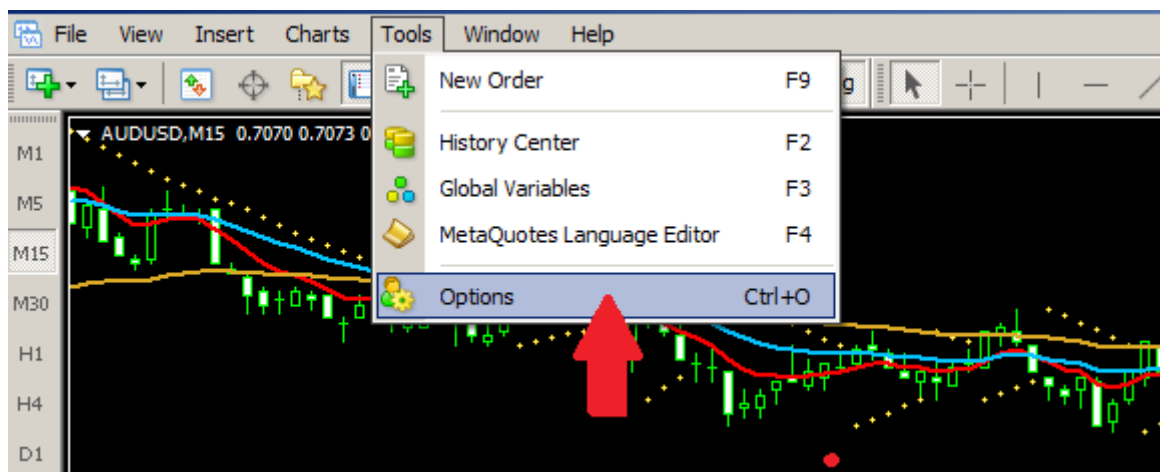
If the Expert Advisor is enabled, it will download a calendar of news from <http://taranus.ru> web-site.

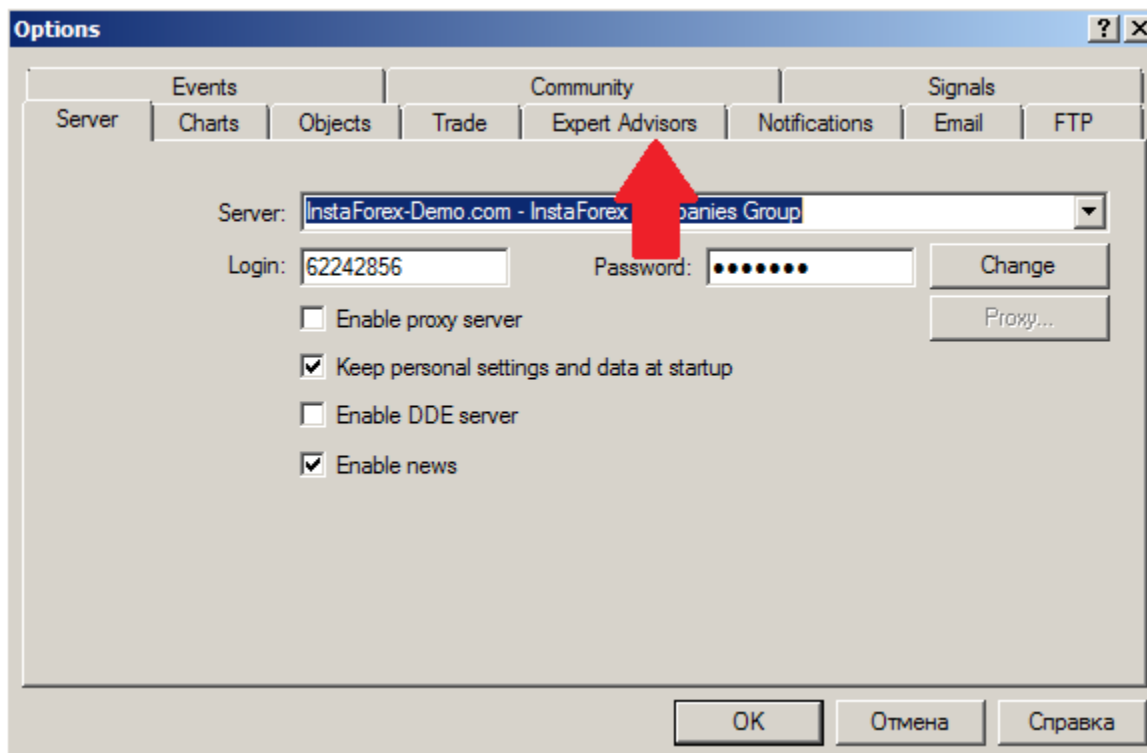
When done, vertical lines indicating the time of the news release will appear on the chart.

The Expert Advisor will place two pending orders – Buy Stop and Sell Stop – at the interval set in the «interval of the Stop order from the price» parameter 60 seconds before the news release. If these orders are not triggered during two minutes (120 seconds) after the release of news, they will be deleted, and the Expert Advisor will wait for the next news.

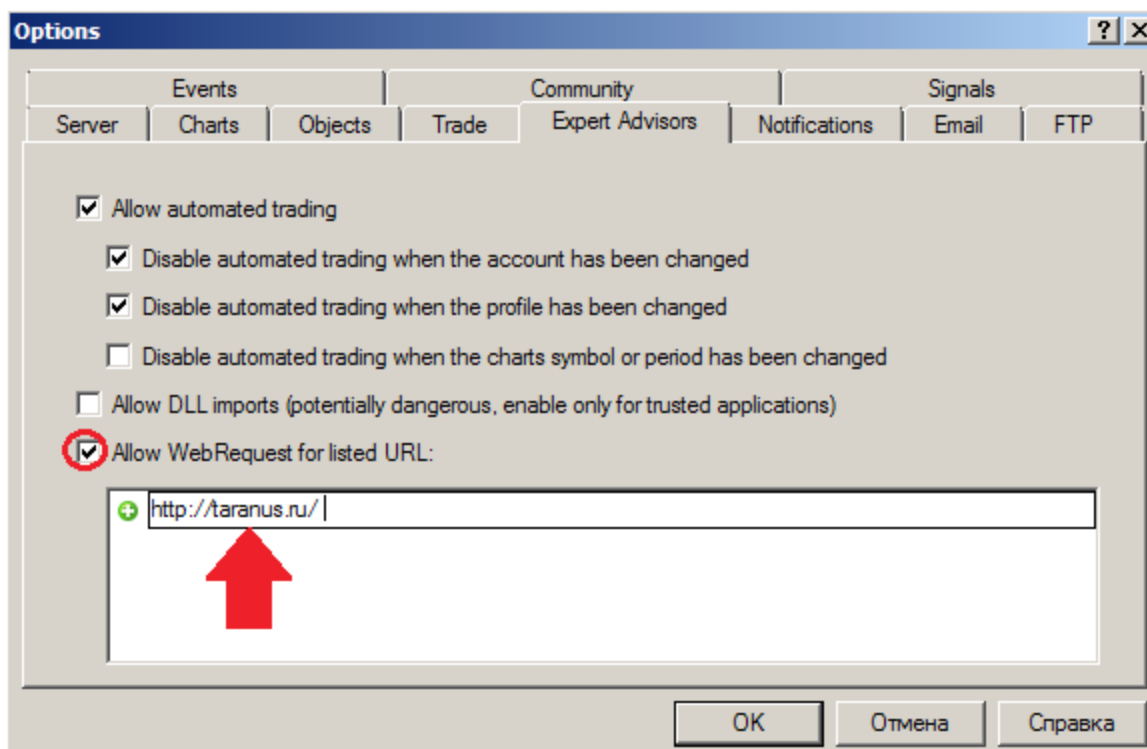
News over the two weeks – the previous and the current weeks – will be displayed on the chart to reduce the load on the terminal.

Open the «**Tools**» tab, select and open «**Options**» so that **Taranus** Expert Advisor can download the calendar of news.





Afterwards, open «Expert Advisors» tab.



Check «Allow WebRequest for listed URL:» option, press the green “plus” icon («add new URL...») and enter “**http://taranus.ru/**” in the opened line. Then press OK and **restart MetaTrader!!!**



News Trading = true/false - enables/disables trading in the news;

Time in seconds BEFORE the news = 60 - the Expert Advisor will place two pending orders – Buy Stop and Sell Stop – 60 seconds before the news release. You can set the required time interval (in seconds) by yourself;

Time in seconds AFTER the news = 120 - if these orders are not triggered during two minutes (120 seconds) after the release of news, they will be deleted, and the Expert Advisor will wait for the next news.

Important: if indicators are enabled in the news mode, the Expert Advisor will place **only one** stop order in the direction indicated by the indicators or not place orders at all, if the indicators generate the opposite signals.

Variable	Value
ab	
ab BLOCK_9	NEWS TRADING
News Trading:	false
time in seconds BEFORE the news	60
time in seconds AFTER the news	120
time difference between GMT and MT4	2
draw the news lines	true
color of news lines	Red
ab	

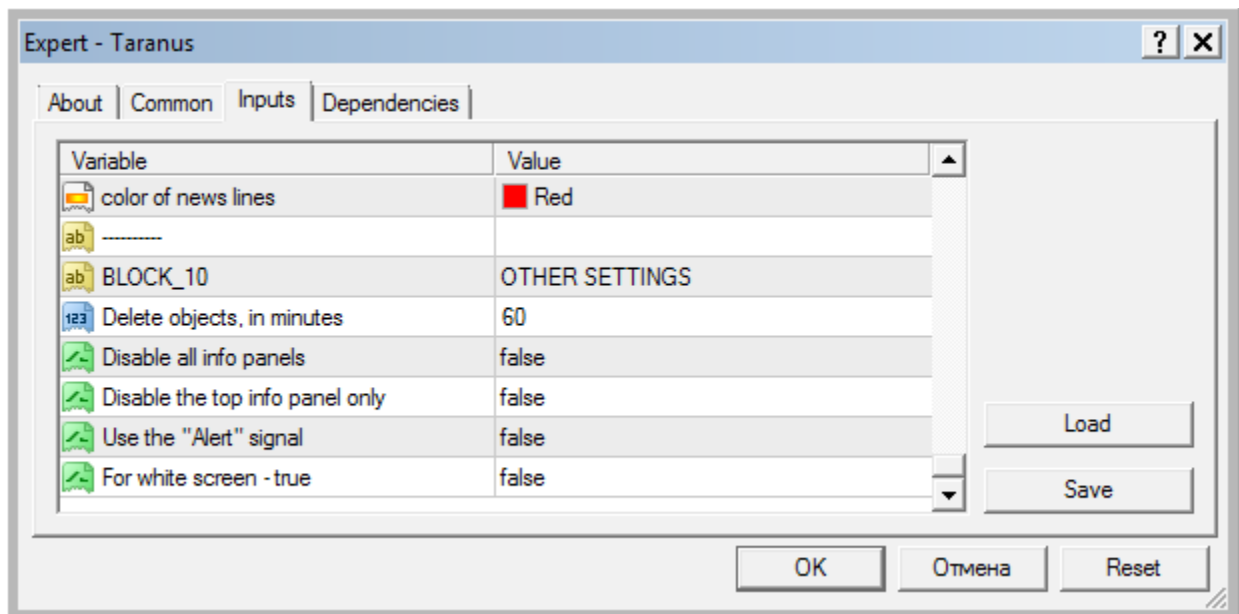
Time difference between GMT and MT4 time = 2 - difference in time between MetaTrader 4 time and GMT;

Draw the news lines = true - the lines indicating the time of the news release, if false, then disabled;

Color of news lines = Red -enables selection a color of the news lines;

Important: You can plot your own vertical line (it doesn't matter, whether it is a dotted or a solid line) on the chart by yourself. When the price approaches the line, the Expert Advisor will treat it as other news lines.

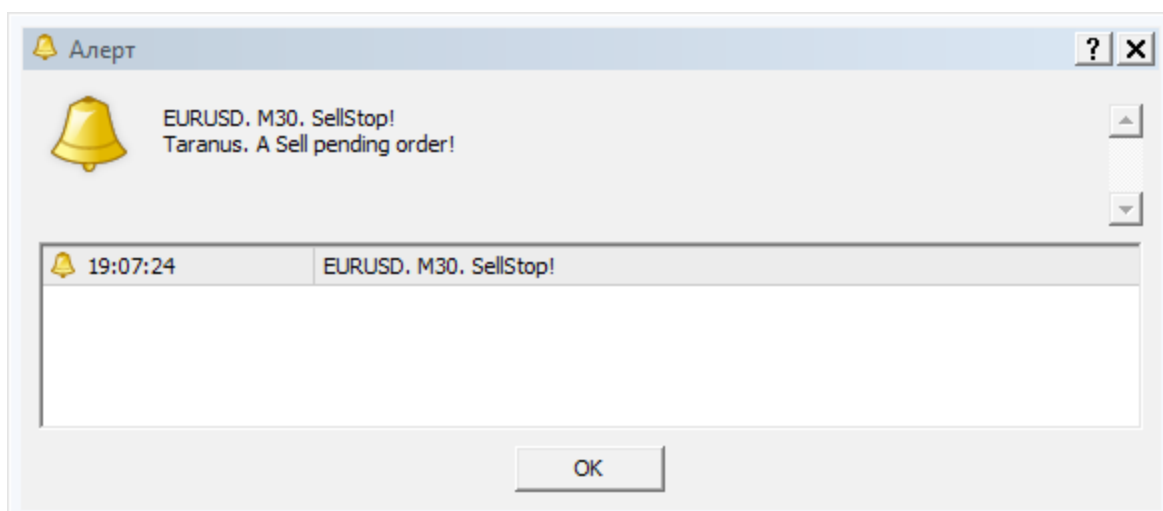
Block 10. OTHER SETTINGS



Delete objects, in minutes = 60 - clears the chart from unnecessary graphical objects (arrows, modified stop-loss and take-profit levels, etc.) in a certain period of time set in minutes (60) passed from the moment, when an object is created;

Disable all info panels = false - set to true, if you wish to remove an info panel and other labels from the chart;

Disable the top info panel only = false - set to true, if you wish to remove the top info panel from the chart;



Use the "Alert" signal = true, if false, then disabled.

A pop-up window accompanied by an audio signal will appear and notify you about, what chart window (currency pair and timeframe) of the terminal the Expert Advisor has performed an action on. The timeframe of the current window, i.e. the window opened at the moment, is indicated.

When pending order is placed, or position of the market order is opened, the Expert Advisor will warn a trader about it by a signal.

Advice: if you want the Expert Advisor to show you a message telling you that it has placed pending orders, but a frequent audio signal irritates you, you can turn off its sound in MT4 parameters: go to «Tools» - «Options» - «Events», select «Alert» and double-click on the label with the left mouse button. Red cross icon will appear.

For white screen – true = false, the default settings for the black screen to select true for the white screen.

INFO PANEL

The info panel consists of two parts: the top and the bottom panels. If the Expert Advisor is enabled, labels telling a trader about the current status of his deposit and current settings of the Expert Advisor will appear in the right upper corner of the price chart.



Time – shows the time of the Expert Advisor's operation in hours and minutes according to the MetaTrader 4 terminal's time;

Balance – current level of account Balance;

Equity – current level of account Equity;

745.05 || 372.52 – planned levels of Equity, upon hitting of which with a profit (the value of 745.05 refers to profitable orders) or with a loss (the value of 372.52 refers to losing orders) the Expert Advisor will close all orders and stop its operation. These values depend on the values set in «Profit in %» and «Loss in %».

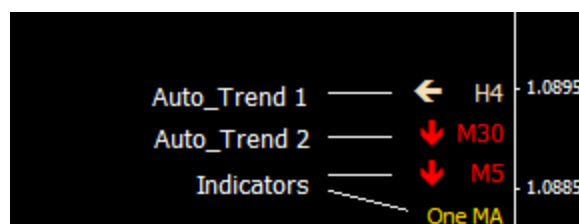
Profit = 50 % - the planned profit as a percentage of the current level of account balance;

Loss = 25 % - limits a potential loss in terms of percentage of account balance;

AutoLot = 0.30 – shows a preliminary result of automatic lot calculation;

Orders – shows the number of open orders; when the number reaches the maximum allowable value, the label will change its color to pink.

The bottom panel will appear in the right lower corner:



the arrows show the direction of trading signals at the moment.

The upper arrow shows trading signals coming from **Avto_Trend 1**:

- If the **Red** price is above a trending moving average on the given timeframe, it will serve as a **Buy signal**, and the arrow will be up.

- If the **Ask** price is below a trending moving average on the given timeframe, then the trend is downward. It will serve as a **Sell signal**, and the arrow will be down.
- If the **Ask** price is above, and the **Bid** price is below a trending moving average on the given timeframe, then it means “**out of the market**”. The arrow will lie horizontally

The middle arrow (the second from above) shows trading signals coming from **Avto_Trend 2**:

- If columns of Awesome Oscillator’s histogram go up (green columns), and Parabolic SAR is below the opening price of the current bar, it indicates the upward trend and serve as a **Buy signal**. The arrow will be up.
- If columns of Awesome Oscillator’s histogram go down (red columns), and Parabolic SAR is above the opening price of the current bar, it indicates the downward trend and serve as a **Sell signal**. The arrow will be down.
- If columns of Awesome Oscillator’s histogram go down (red columns), and Parabolic SAR is below the opening price of the current bar, then it means “out of the market”. The same is true for the opposite direction. If signals of these indicators diverge apart, the arrow will lie horizontally.

The lower arrow indicates the direction shown by indicators (from Block 4 «INDICATORS»). The label below the arrow tells you, what indicators are being used:



One MA – a strategy of **breakout** of a long moving average is selected. Awesome Oscillator can be used as a filter. You can disable it, if you wish;

Two MAs – a strategy of two moving averages **crossover** is selected. Awesome Oscillator is used as a filter. You can disable it, if you wish;

One AO – only one indicator – Awesome Oscillator (AO) – is used;



Time OFF – time of the Expert Advisor’s operation is disabled;

Balance – current level of account Balance;

Equity – current level of account Equity;

Close = 426.28 - when Equity losses hit this value, the Expert Advisor will close open positions, delete all the remaining pending orders and stop its operation, until a new bar set in the «New Start upon opening bar» parameter opens;

Maximum Profit - enables unlimited (in terms of percentage of deposit) profit;

Loss = 25 % - limits a potential loss in terms of percentage of account balance;

AutoLot = 0.38 – shows a preliminary result of automatic lot calculation;

Orders – shows the number of open orders;



Profit = 50 % - the planned profit as a percentage of the current level of account balance;
Loss = 25 % - limits a potential loss in terms of percentage of account balance;
 These parameters change their color to pink, when «Gross Profit» and «Gross Loss» are enabled.



Time OFF – time of the Expert Advisor's operation is disabled;
Balance – current level of account Balance;
Equity – current level of account Equity;
852.57 || 426.28 – the planned profit and limitation of losses;
Close by Stops – the label of pink color warns that «Close by Stops» function is enabled, i.e. the Expert Advisor will close open positions only by stop-loss or take-profit ignoring indicators' signals
AutoLot = 0.38 – result of automatic lot calculation;
Orders – shows the number of open orders;

Important: if «Gross Profit», «Gross Loss» and «Close by Stops!» are enabled simultaneously, the info panel will not change, the «Close by Stops!» label will be displayed, but «Gross Loss» and «Close by Stops!» functions will be still working. The Expert Advisor will execute the command, which scenario works earlier.



Time OFF – time of the Expert Advisor's operation is disabled;
Balance – current level of account Balance;

Equity – current level of account Equity;

Close if Profit – the label of pink color warns that «Close, if Profit!» function is enabled and all the positions will be closed, when the profit of the account turns to positive. The given info panel doesn't include information about planned profit and loss. The reason for it is that it is the irrelevant data for us here, because all the positions are closed anyway, when the profit turns to positive, and the further trading is stopped.

AutoLot = 0.33 – result of automatic lot calculation;

Orders – shows the number of open orders.

H1	491	Taranus 😊	0.7220
		Time OFF	
		Balance = 500.01	0.7215
		Equity = 500.01	
		Close if Profit	0.7210
		Close by Stops	
		AutoLot = 0.33	0.7205
		Orders = 0	

Close if Profit - the label of pink color warns that «Close, if Profit!» function is enabled;

Close by Stops - the label of blue color notifying you that «Close, if Profit» function is enabled along with «Close by Stops». «Close, if Profit» function is of the first priority.

AutoLot = 0.33 – result of automatic lot calculation;

Orders – shows the number of open orders;

H1	491	Taranus 😊	
		Time OFF	0.7630
		Balance = 499.16	
		Equity = 499.16	0.7555
		748.74 374.37	
		Profit = 50.00%	
		Loss = 25.00%	0.7480
		AutoLot = 0.33	
		Market orders	0.7405

Market orders – enables opening market orders only.

H1	491	Taranus 😊	
		Time OFF	0.7630
		Balance = 499.16	
		Equity = 499.16	0.7555
		748.74 374.37	
		Profit = 50.00%	
		Loss = 25.00%	0.7480
		AutoLot = 0.33	
		One order only	0.7405

Only one order – enables opening one order in one direction only.

H1	491	Taranus 😊	
		Time OFF	0.7630
		Balance = 499.16	
		Equity = 499.16	0.7555
		748.74 374.37	
		Profit = 50.00%	0.7480
		Loss = 25.00%	
		AutoLot = 0.33	0.7405
		One order only	
		Market orders	0.7330

Only one order – enables opening one order in one direction only.

Market orders – enables opening market orders only.

When this combination of functions is enabled, the Expert Advisor will open one market order in one direction (for example, at first it will open a Buy order). After the order is closed, the Expert Advisor will wait for the opposite signal to open one order too, but in another direction. (i.e. one Sell order).

H1	491	Taranus 😊	
		Time OFF	0.7630
		Balance = 499.16	
		Equity = 499.16	0.7555
		748.74 374.37	
		Profit = 50.00%	0.7480
		Loss = 25.00%	
		AutoLot = 0.53	0.7405
		Orders = 0	
		S/L : T/P	0.7330
		19 : 57	0.7255

S/L : T/P - enables AutoStop: automatic calculation of stop-loss and take-profit levels based on the market volatility.

D1	51	Taranus 😊	
		Time OFF	1.25785
		Balance = 505.79	
		Equity = 505.79	1.25740
		1011.58 252.90	
		Profit = 100.00%	1.25695
		Loss = 50.00%	
		AutoLot = 0.01	1.25650
		Orders = 0	1.25605

AutoLot = 0.01 - the label of pink color warns that “AutoLot” disabled (StopLoss = 0 or Risk= 0), or incorrectly specified risk value, or not enough money in the account, so Expert Advisor works minimal lot 0.01. To re-enable auto lot calculation, you can change of the level Risk or stop loss, or add money to the account.



Not enough money - the label of pink color warns that in the account is not enough money for the next order with a predetermined volume of the lot, you need to update your account or reduce the volume of the lot.



Balance – current level of account Balance;

Equity – current level of account Equity;

748.74 || 374.37 – the planned profit and limitation of losses;

Close by Stops – the label of pink color warns that «Close by Stops» function is enabled, i.e. the Expert Advisor will close open positions only by stop-loss or take-profit ignoring indicators' signals

AutoLot = 0.53 – result of automatic lot calculation;

Only one order – enables opening one order in one direction only;

Market orders – enables opening market orders only;

S/L : T/P - enables AutoStop: automatic calculation of stop-loss and take-profit levels based on the market volatility.

Advice: “Experts” tab in Terminal window can help you understand, how the Expert Advisor operates.

Time	Message
2016.02.04 16:55:39.788	Taranus_Eng USDCAD,M5: Close orders in the percentage for profit/loss.
2016.02.04 16:55:39.788	Taranus_Eng USDCAD,M5: Close orders in the percentage for profit/loss.
2016.02.04 16:55:39.508	Taranus_Eng AUDUSD,M5: open #289468687 sell stop 0.08 AUDUSD at 0.7209 sl: 0.7239 tp: 0.7059 ok
2016.02.04 16:55:39.178	Taranus_Eng AUDUSD,M5: The trend direction has changed. Pending orders are being deleted.
2016.02.04 16:55:39.178	Taranus_Eng AUDUSD,M5: close #289456804 buy 0.08 AUDUSD at 0.7236 sl: 0.7206 tp: 0.7386 at price 0.7214
2016.02.04 16:55:37.868	Taranus_Eng AUDUSD,M5: initialized

Trade | Exposure | Account History | News | Alerts | Mailbox 12 | Market | Signals | Code Base | **Experts** | Journal

Advice: use a Strategy Tester built-in MetaTrader 4 in “**Visualization**” mode to develop skills and gain a better understanding of principles of [Taranus](#) Expert Advisor operation. You can obtain objective results by using “Every tick” mode. If accuracy of the results is not so important, and you want approximate results only, you can select “Open prices only” mode. The Strategy Tester will help you in developing your own strategy.

Advice: 1) templates – attach the Expert Advisor with your individual settings to the price chart and create a template for your strategy;
2) set files – create set files including your own strategies in advance. You can read about how to create a set file and a template in more details on our web-site in the “Settings” section.

www.taranus.ru

2016