

# **Bogie Enterprises**

**Bogie-MA\_Gap-2**  
**MetaTrader MT4 - Expert Advisor (EA)**

## **Instruction Manual**

**Note:** *It is recommended first to use a Demo Account to evaluate this EA before you begin Live Trading.*



## Bogie-MA\_Gap-2

### Setup and Operations Manual

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## Bogie-MA\_Gap-2

### Description

This next generation of the Bogie-MA\_Gap series has many new functions to improve the stability in FOREX Trading. The major concern of Martingale trading is being caught in full number of trades and price continues in a sustain trend resulting in a Margin Call. This is not frequent, but can happen. The EA's Money Management has been structured to monitor this type of Margin Call. It is a "Stealth" Expert Advisor (EA) that controls Market Stops (TakeProfit/StopLoss) within the EA code. The EA uses oscillatory price moves on Japanese symbols (EURJPY – GBPJPY – USDJPY) to enter and exit trade positions on a Martingale (DoubleDown) trading strategy.

### Money Management Structure

- 1) Account Free Margin allocation per number of trading symbols (Pairs).
  - Free Margin Allocation = Account Free Margin divided by Pairs.
  - This allocated margin is then used to calculate 1<sup>st</sup> trade lot size.
- 2) If MarginControlOption=true, trading will not be allowed on a symbol if insufficient allocated margin to cover maximum number of potential open trades (MaxTrades).



## Bogie-MA\_Gap-2

### Operating Instructions

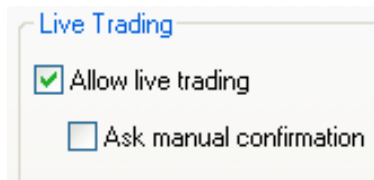
1. Run Installer Program to auto install necessary files into their correct directory folders.
2. Re-Start MetaQuotes MT4 Platform to compile .ex4 files.
3. Open charts for either GBPJPY – EURJPY -- USDJPY. For number of symbols to run, refer to “Money Management”.
4. Set chart to M15 (15 Minutes) TimeFrame.
5. Attach EA to chart. No indicators need to be attached.
6. Right-click on a chart, then click Expert Advisor, then click properties or just click on a chart and press F7.

a. Click “Input” tab.

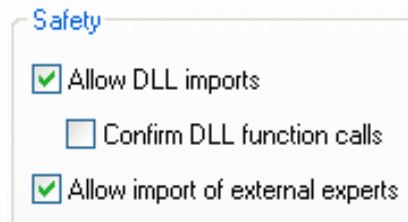
- ◆ Enter License Key. Note: *EA will not run without a License Key.*

b. Click “Common” tab.

- ◆ Make sure “Allow live trading” box is checked.



- ◆ Make sure “Allow DLL imports” box is checked and “Confirm DLL function calls” is not checked.



7. Confirm Expert Advisor is active. Smiley face in upper right-hand chart corner. If frowning face, click to highlight “Expert Advisor” button in MetaTrader menu bar.





**EA is delivered with latest preferred settings.**

**ControlMarginOption=true;** // If true, to allow trading requires minimum Free Margin available to open all potential Martingale trades. If false, EA will trade with available Free Margin.

**UseMM=true;** // If true, Money Management (MM) sets lot size by calculation determined by Risk %.

**Lots=0;** // If UseMM==false, then use this to set fixed lot size.

**Risk=1;** // This is percent (%) of AccountFreeMargin to calculate lot size. Example: (Standard Account) AccountFreeMargin=10,000, Risk=1. Lot Size=0.1. **\$10,000 \* (Risk/100)/1000 = 0.1 lot size.** If insufficient equity to open all MaxTrades and cover StopLoss pips, EA will reduce lot size for 1<sup>st</sup> trade until sufficient equity to open all MaxTrades and cover StopLoss pips.

**TakeProfit=X;** // Sets number of pips in profit to market close order.

**StopLoss=X;** // Sets number of pips in loss to market close order. On high daily volume pairs, the price can move up and down hundred of pips each day. This EA needs sufficient StopLoss to allow this up/down movement, but still there to stop a runaway loss.

**TrailingStop=X;** // Sets number of pips from current price to current StopLoss to trigger OrderModify() call to set new StopLoss.

**MaxTrades=X;** // Sets number of open Martingale trades.

**Multiply=X;** // Sets factor to increase lot size for Martingale trades.

**MaPeriod1=X;** // Sets TimeFrame for Moving Average (MA) calculation.

**MaMode1=X;** // Sets MA method:

**MaPrice1=X;** // Sets MA applied price.

**L1=X;** // Sets pips for MA gap.

**ATR\_per=X;** // Sets Period for Average True Range calculation.



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**ProfitProtect=true;** // if true, close all open trades when profit percent of open trades (ProfitPercentCloseAll) of Account Balance is exceeded.

**ProfitPercentCloseAll=10;** // Profit percent on open trades.

**LossProtect=false;** // if true, close all open trades when loss percent of open trades (LossPercentCloseAll) of Account Balance is exceeded.

**LossPercentCloseAll=40;** // Loss percent on open trades.



## Trading Risk: (example only)

The value you use for Risk input above has a dramatic effect on Maximal DrawDown. Here is a chart that illustrates this:

**Deposit: \$10,000 – (EURJPY - 1 Year Backtest)**

Risk (%)	Equity	MaxDD (%)	R.O.I. (%)
0.4	52,688	17.23	426
0.3	38,015	10.00	180
0.2	20,970	5.55	109
0.1	15,518	4.28	55

**Deposit: \$10,000 – (GBPJPY - 1 Year Backtest)**

Risk (%)	Equity	MaxDD (%)	R.O.I. (%)
0.4	71,407	31.19	614
0.3	55,280	27.25	452
0.2	25,137	19.18	251
0.1	16,797	7.58	67

**Deposit: \$10,000 – (USDJPY - 1 Year Backtest)**

Risk (%)	Equity	MaxDD (%)	R.O.I. (%)
0.4	57,956	18.00	479
0.3	36,311	14.38	263
0.2	24,048	9.01	140
0.1	16,090	4.31	60

R.O.I. (%) = Return on Investment (Percent)

MaxDD (%) = Maximal DrawDown (Percent)



## Money Management

Standard Account: 1 lot = 100,000 units. For leverage 1:100, rule of thumb for trading equity is Minimum \$ 1,250 per trading symbol. Example: Trading three (3) symbols requires minimum \$ 3,750 equity.

<i>Broker Leverage</i>	<i>Free Margin per trading symbol</i>
<i>1:50</i>	<i>\$ 2,500</i>
<i>1:100</i>	<i>\$ 1,250</i>
<i>1:200</i>	<i>\$ 625</i>
<i>1:400</i>	<i>\$ 312</i>

Mini Account: 1 lot = 10,000 units. For leverage 1:100, rule of thumb for trading equity is Minimum \$ 125 per trading symbol. Example: Trading three (3) symbols requires minimum \$ 375 equity.

<i>Broker Leverage</i>	<i>Free Margin per trading symbol</i>
<i>1:50</i>	<i>\$ 250</i>
<i>1:100</i>	<i>\$ 125</i>
<i>1:200</i>	<i>\$ 62.50</i>
<i>1:400</i>	<i>\$ 31.20</i>

There are four (4) variables in this EA that control your money management.

- **UseMM=true;** // If true, Money Management (MM) sets lot size by calculation determined by Risk %. If false, set beginning fixed lot size with variable Lots
- **MiniAccount=true;** // If true, allows minimum 0.01 lot size, or If false, allows minimum 0.1 lot size in Money Management routine (UseMM).
- *Note: When Money Management (UseMM=true), MiniAccount=false is 0.1 lot size unit and MiniAccount=true is 0.01 lot size unit.*
- **Lots=0;** // If UseMM=false, then use this to set fixed lot size.
- **Risk=1;** // This is percent (%) of allocated AccountFreeMargin to calculate lot size. Example: (Standard Account) allocated AccountFreeMargin = 10,000, Risk=1. Lot Size= 0.1. **(\$10,000 \* (Risk/100)/1000 = 0.1 lot size).**



## Trading Method:

I can only suggest that you initially **do not** use the “Get Rich Overnight” theory in FOREX Trading. Until you get use to this Expert Advisor with its win/loss performance, I strongly suggest you start with Low Risk Level setting above and only increase your Risk Level when you are completely confident of EA’s stable win/loss performance. This could take 3 to 6 months of trading.

It is recommended first to use a Demo Account to evaluate this EA before you begin Live Trading.

“Steady Equity Growth” should be the name of your game.



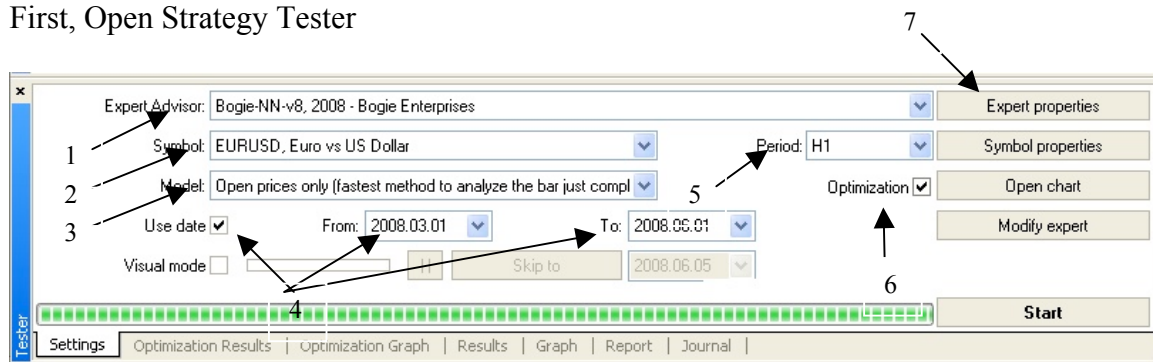
## Optimization (period=M15)

### Recommended Test Ranges

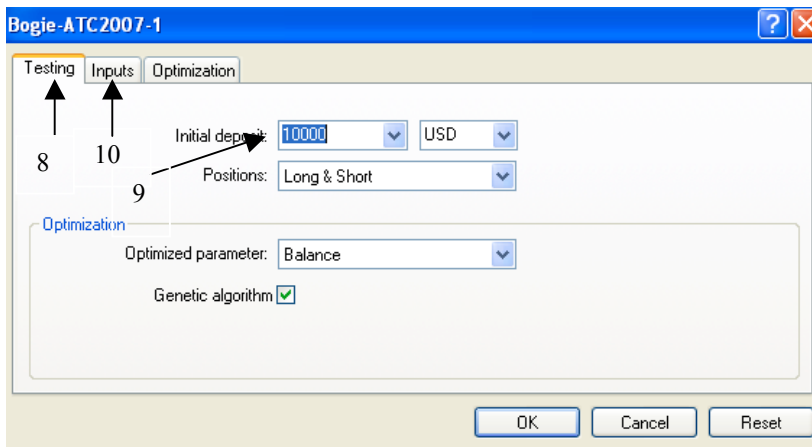
<u>Inputs</u>	<u>Start</u>	<u>Step</u>	<u>Stop</u>
TakeProfit	10	5	200
StopLoss	25	5	120
TrailingStop	10	1	100
MaxTrades	1	1	6
Multiply	1	0.25	3
MaPeriod1	1	1	20
MaMode1	0	1	3
MaPrice1	0	1	5
L1	1	1	10
ATR_per	1	1	20

### Optimization Step-By-Step Procedure (example only)

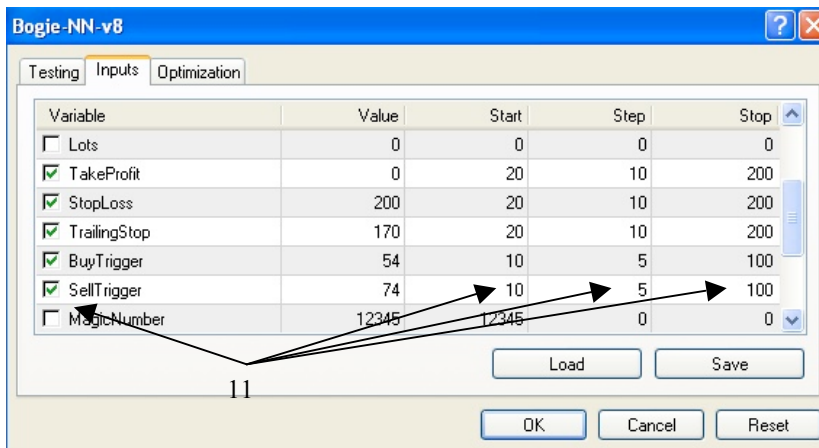
First, Open Strategy Tester



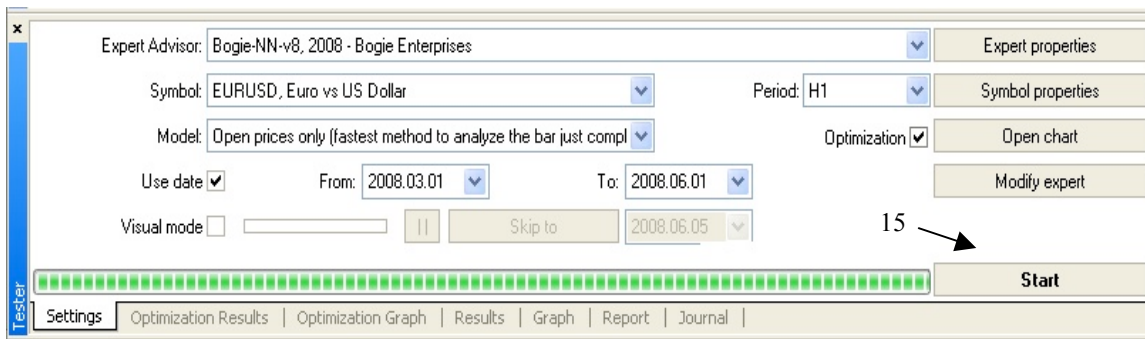
1. Select Expert Advisor
2. Select currency pair
3. **Select "Open Prices Only". This will dramatically reduce Optimization test time.**
4. Check Use date box. Then set test date range (From date – To date)
5. Select M15 period
6. Check Optimization box
7. Click Expert properties



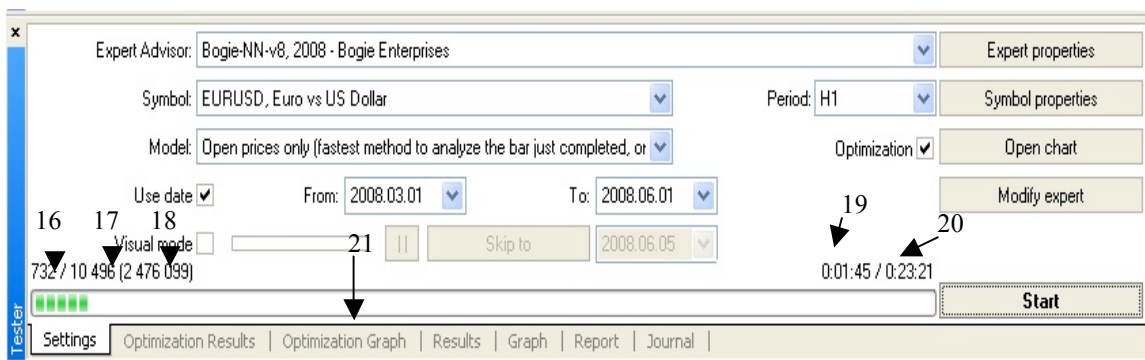
8. Click Testing tab
9. Set test Initial deposit (leave other options as you see here)
10. Click Inputs tab



11. Then set Start-Step-Stop values for each variable to test
12. Then Click OK



15. Click Start



16. Number of test cycles completed

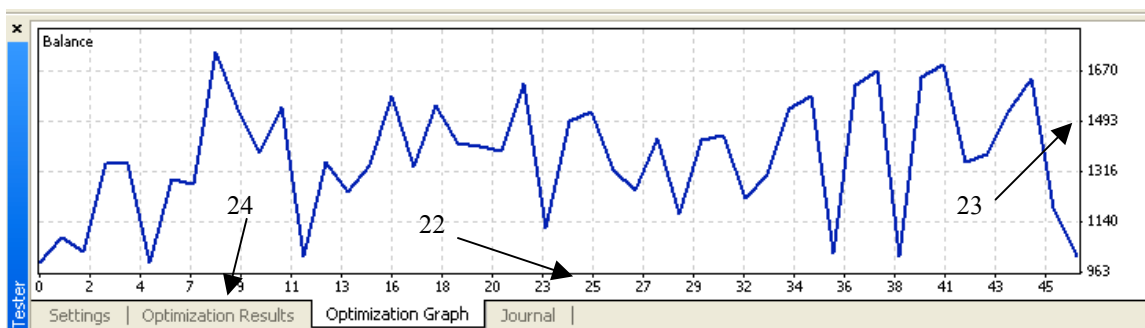
17. Total number of test cycles to be tested

18. Number of test cycles, if Genetic algorithm box is un-checked.

19. Elapsed test time.

20. Time remaining in test.

21. Click Optimization Graph tab



22. Number of tests

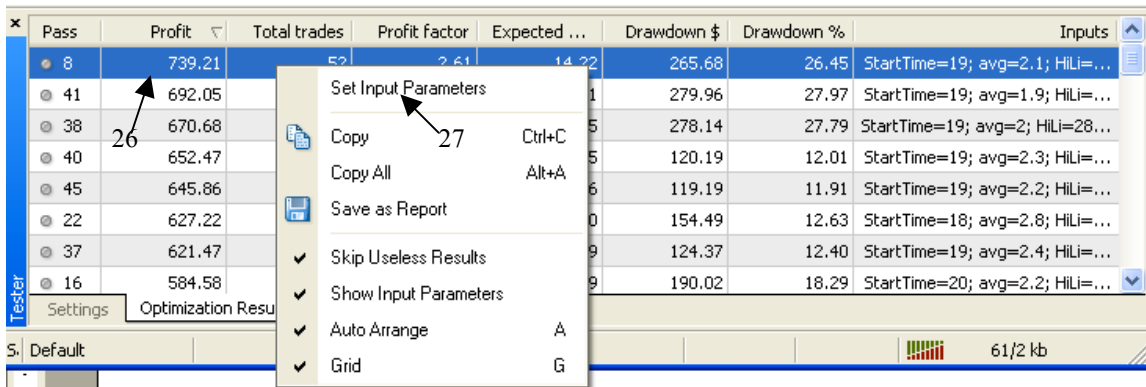
23. Equity per test

24. Click Optimization Results tab



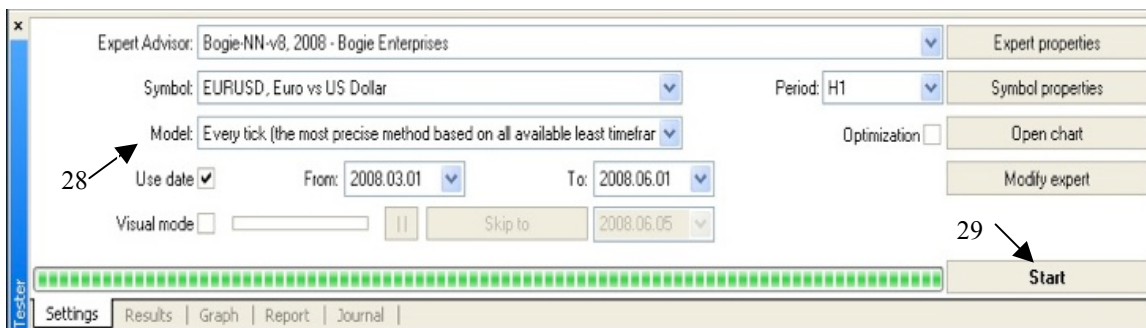
Pass	Profit	Total trades	Profit factor	Expected ...	Drawdown \$	Drawdown %	Inputs
8	739.21	52	2.61	14.22	265.68	26.45	StartTime=19; avg=2.1; HiLi=...
41	692.05	52	2.51	13.31	279.96	27.97	StartTime=19; avg=1.9; HiLi=...
38	670.68	53	2.46	12.65	278.14	27.79	StartTime=19; avg=2; HiLi=28...
40	652.47	52	2.83	12.55	120.19	12.01	StartTime=19; avg=2.3; HiLi=...
45	645.86	54	2.81	11.96	119.19	11.91	StartTime=19; avg=2.2; HiLi=...
22	627.22	51	2.23	12.30	154.49	12.63	StartTime=18; avg=2.8; HiLi=...
37	621.47	51	2.74	12.19	124.37	12.40	StartTime=19; avg=2.4; HiLi=...
16	584.58	50	2.27	11.69	190.02	18.29	StartTime=20; avg=2.2; HiLi=...

25. After Optimization test is complete, results are auto-sorted by profit.



26. Right-Click on a results row and an Options window opens

27. Click Set Input Parameters and test settings are transmitted to Expert properties



28. Reset Model "Open Prices Only" back to "Every Tick".

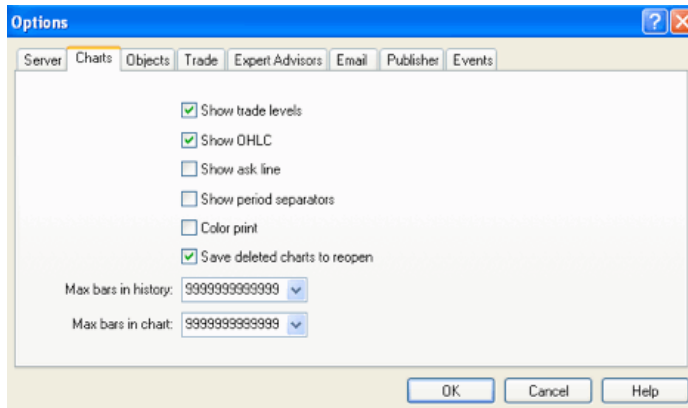
29. Click Start. Then Strategy Tester runs backtest on new settings.



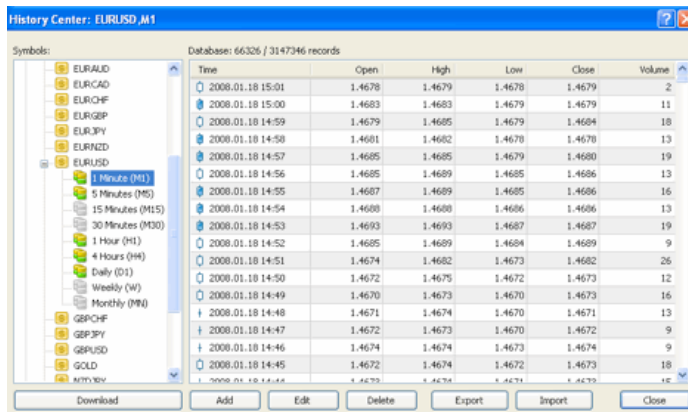
## History Data Download:

### Option 1.

1. Open MetaTrader MT4 platform.
2. Open Options in the Tools tab in upper menu bar.
3. Click Charts tab.
4. Change both “Max bars in history” and “Max bars in chart” to “999999999”.



5. Close Options window.
6. Open History Center in the Tools tab in upper menu bar.
7. Double click EURUSD M1 button.
8. Click “Download” button. (This downloads history data from MetaQuotes)



9. When download complete, close History Center window.

You are now ready for Strategy Tester (backtests) and Optimization.



## Bogie-MA\_Gap-2 Expert Advisor

### FAQs

#### Do I need to leave EA running 24 hours per day?

EA must be running to open new position/s (trade/s). And, while there are open position/s, the EA must be running to monitor and to exit open position/s. It is required to run this Bogie EA on a Commercial Network Services (CNS) –

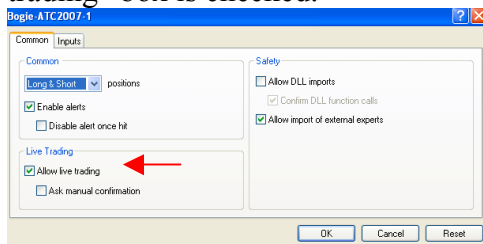
<http://www.CommercialNetworkServices.com> - Virtual Private Server (VPS).

#### Will Bogie Enterprises provide regular Optimization updates?

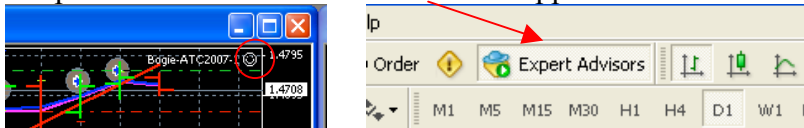
Yes, on a regular basis. This does not mean there will be setting changes every month. If EA tests well on current settings, there will be no recommended changes for that month.

#### Why does EA not open orders?

1. Click on chart, then press F7, then click “Common Tab”. Make sure “Allow live trading” box is checked.



2. Make there is a Smiley Face on chart in upper right corner. If “x”, click to highlight “Expert Advisor” button in MetaTrader upper menu bar.



3. If INITIALIZING stays, it means no connection to sever or EA was not installed correctly. 99% of time, for this situation, the install path was not correct. The install path is to the Broker's folder, not the experts folder inside.

#### Can I run this EA on a Mini Account?

Yes, set MiniAccount=true. When the Money Management UseMM=true, mini account lot size unit is 0.01. To use micro lot size unit (0.001), set UseMM=false. Then enter set lots=X.XXX (fixed lot size).

#### What size deposit account can I run with this EA?

Review Money Management section above in this document.



### **Can this EA run on a virtual hosting site?**

Yes. This EA is setup on Communications Network Services virtual server.  
CNS Virtual Hosting Site  
<http://www.commercialnetworkservices.com/VPS/Windows/Traders/>

### **Can I run other EAs and also manually trade on same pair that EA is on?**

Yes, your can run other EAs on same pair and manually trade same pair on same account.

### **If my PC crashes or it loses Internet connection, will this effect EA ?**

No effect on EA. When EA is running again, it will take control of existing open trade OK.

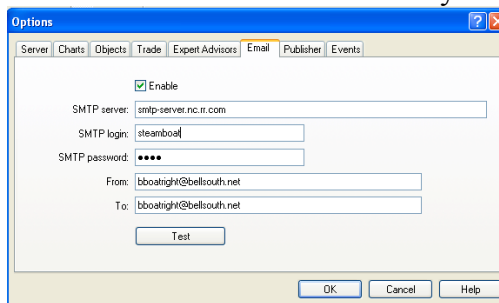
### **Can I use EA on other computers?**

No, EA is active only on CNS VPS. You can run EA on as many Demo accounts as you want. To trade on Live account, you will need to agree to the "Profit Sharing Agreement" and submit Live trading request.

Bogie Enterprises grant to Customer a nonexclusive and nontransferable license to use the Bogie-MA\_Gap series Expert Advisor ("EA") in object code form (.ex4) solely on central processing units owned or leased by Customer.

### **How do I receive email of order open and order close status?**

1. Set UseEmail=true.
2. Open Options in the Tools tab in upper MetaTrader menu bar.
3. Click Options and then click Email tab.
4. Check enable box and then fill in your mail server information.





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**Disclaimer:**

This risk disclaimer is meant to inform the purchaser of the potential financial risks of engaging in foreign exchange trading. The transaction of such financial instruments known as forex, fx, or currency, and dealt on a valued basis known as 'spot' or 'forward', 'day trading' and 'option', can contain a substantial degree of risk. Before deciding to undertake such transactions, a user should carefully evaluate whether his/her financial situation is appropriate for such transactions. Trading foreign exchange may result in a substantial or complete loss of funds and therefore should only be undertaken with risk capital. The definition of risk capital is funds that are not necessary to the survival or well being of the user. Opinions and analysis on potential expected market movements contained within this sales transaction are not to be considered necessarily precise or timely, and due to the public nature of the Internet, I cannot at any time guarantee results. Trading online, no matter how convenient or efficient it may be, does not necessarily reduce the risks associated with foreign exchange trading, and I do not accept any responsibility towards any customer, member or third party, acting on such information contained in this sales transaction and supporting documents as to the accuracy or delay of information such as quotations, news, and charts derived from quotations.