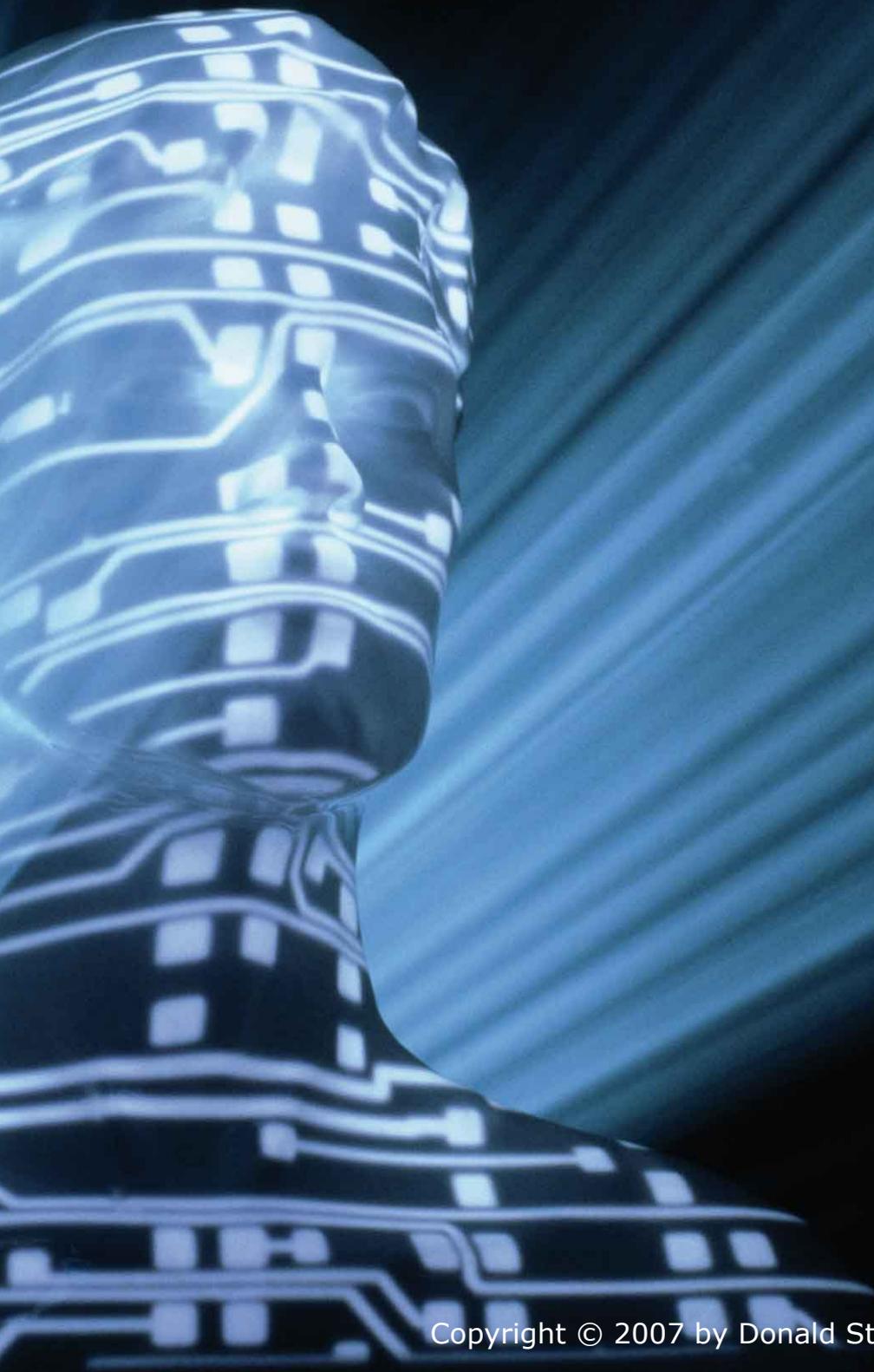


Steinitz HAS MTF Hedge Robot

Owners Manual



IMPORTANT RISK DISCLOSURE

NOTICE AND TERMS OF USE: Trading currencies in the FOREX (foreign exchange) market is not for everyone as it involves substantial risk. In addition, emotional factors may influence a person's ability to trade any trading system, including Steinitz HAS MTF Robot.

All trading systems and methods, including this one, involve the likelihood of periodic reduction of capital, even on winning trades. For this reason anyone trading systems offered here must be prepared to adequately fund his/her trading account to avoid having enforced losses due to broker trade execution resulting from insufficient margin funding.

In purchasing or using Steinitz HAS MTF Robot you agree that any and all use of it is solely at your own risk and without any recourse whatsoever to the seller, seller's associates, subsidiaries, agents or partners. You understand that you are using Steinitz HAS MTF Robot entirely at your own risk.

By purchasing or using Steinitz HAS MTF Robot you are not being offered or given financial advice of any kind. In trading currencies in the FOREX market people can and often do lose money. Past performance is not an indication of, nor a guarantee of future performance of any system or method as markets can change.

While the accuracy of the performance reports posted on this website are guaranteed, no guarantee is or can be given that any system or method will continue to perform similarly in the future. If you have any doubts about trading currencies using Steinitz HAS MTF Robot you should first consult your own financial advisor.

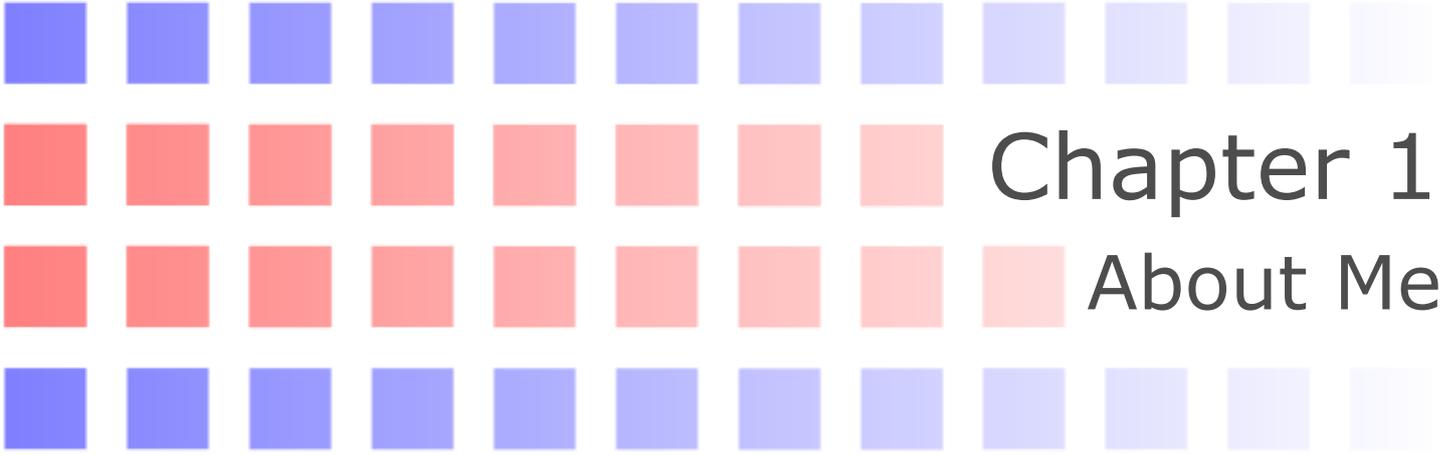
Hypothetical or simulated performance results have certain inherent limitations. Unlike an actual performance record, simulated results do not represent actual trading. Further, since the trades have not actually been executed, the results may have under compensated or over compensated for the impact, if any, of certain market factors, such as lack of liquidity.

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Chapter 1

About Me

My name is Don Steinitz. I started out at age 18 learning all I could and mastering the science and art of the game of Blackjack. I moved to Las Vegas leaving behind a successful accounting practice working with my father who owned a CPA firm as a computer operator putting out financial statements to other CPA's when computers were very expensive and not well known.

I became an expert card counter and could count down a deck of cards in 15 seconds or less. I organized a team of players and soon became a major threat to any casinos we decided to play in. You might have read about the MIT team. Our methods were quite similar but we were first.

I engaged in many other forms of taking advantage of casinos (all legally) through various methods including the use of sloppy dealing practices actually seeing the dealers hold cards giving us a tremendous advantage over the casinos. It was very common for our team to wipe out an entire tray of chips while waiting for a refill from the cage.

The "cat and mouse" game always looking over my shoulder attempting to blend in as a normal tourist eventually took its toll on me and after 25 years I decided to leave the business and play professional live poker known as "No Limit Holdem".

How I got started

Looking for something more fulfilling and the desire to work from home I met a gentleman on the Yahoo business and financial chat room who quickly befriended me and we began discussing market theory and experimenting with all kinds of indicators and trading ideas.

We spent thousands of hours on the phone together looking for one method that could show some promise over all market conditions. Every idea had its own set of problems. Deciding to never give me up I continued for 12 years looking for the "holy grail". As you can probably guess one doesn't exist.

Unwilling to give up I put in at least 1000+ hours every year studying charts to see what makes a winning trade. I called that process "reverse engineering". Going backwards to see if I could see a pattern that was shared among all profitable trades. After several attempts to give up I was drawn back to the markets as I didn't want to throw in the towel since I knew somebody out there is probably making a living or better from the markets therefore so can I. So 12 years later I stumbled upon Meta Trader 4 which looked foreign to me at first. I had no idea that a program could be designed to trade a preset of trading rules automatically by an "Expert Advisor" (robot).

This is what I was hoping for and I quickly signed up and started to look around and came upon an indicator called the "Heiken Ashi Smoothed". I later started multiple threads on the traders forum describing my methods that could be used with this fabulous indicator that is driven by price movements alone.

Together with this indicator I developed a way to use it looking at four different trading timeframes all at one glance that gave me a complete picture of what the market is doing. This is the major reason for the huge success of my method.

Where we are now

I have teamed up with several top notch programmers that are extremely gifted and well verse in Meta Traders mql code. This is the name of the programming language that MT4 runs off of. We started out with a basic design and have ended up with after multiple versions the final product known as the "Steinitz HAS MTF Robot".

Any future upgrades, new version releases or modifications will always be sent to all paid licensees for no extra charge, ever. I will send these files by email. If you have an idea you would like to see as an addition to the "Expert Advisor" please don't hesitate do send me an email explaining what idea you have.

Our goals and missions

Our goal is to provide the best all around trading robot for the Forex market. I believe that I have made available through extremely hard work (just ask my wife) the ability to trade any currency pair of your choice without having to place a stop loss on your account. That is a bold statement indeed! You can run any back test with any currency and find that there are no losses. The same thing holds true for any forward test or live trading.

The reason is simple. We always trade with the main trend and look to get in at the first opportunity of a counter trend which is automatically scanned by the EA and found totally without you being there to watch. As the saying goes "A rising tide lifts all boats". Never try to trade against the main trend. The trend is your friend. Even a news announcement that is released may shake up the markets for a half a day or so but the price will revert back to the direction of the main trend to produce the desired take profit target. So in closing I believe along with my faithful clients that this EA just might be the most impressive robot to ever hit the market but only results will back this claim up.

Sincerely,

Don Steinitz



Chapter 2

MetaTrader 4 Installation



MetaTrader 4 application is one the most popular trading platforms working at Forex, CFD, Futures financial markets. It has been created to provide trade operations and technical analysis in real time mode. MetaTrader 4 is supported by over 120 forex brokers. The list can be downloaded from www.ForexRobotTrader.com.

Installation of Meta Trader 4:

Step 1.

Download MetaTrader 4 from your broker.

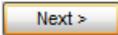
Step 2.

Run the mt4setup.exe  the way you launch any Windows program.

mt4setup

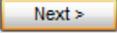
Step 3.

Scroll down the list to select the setup language.

Then press the  button.



Step 4.

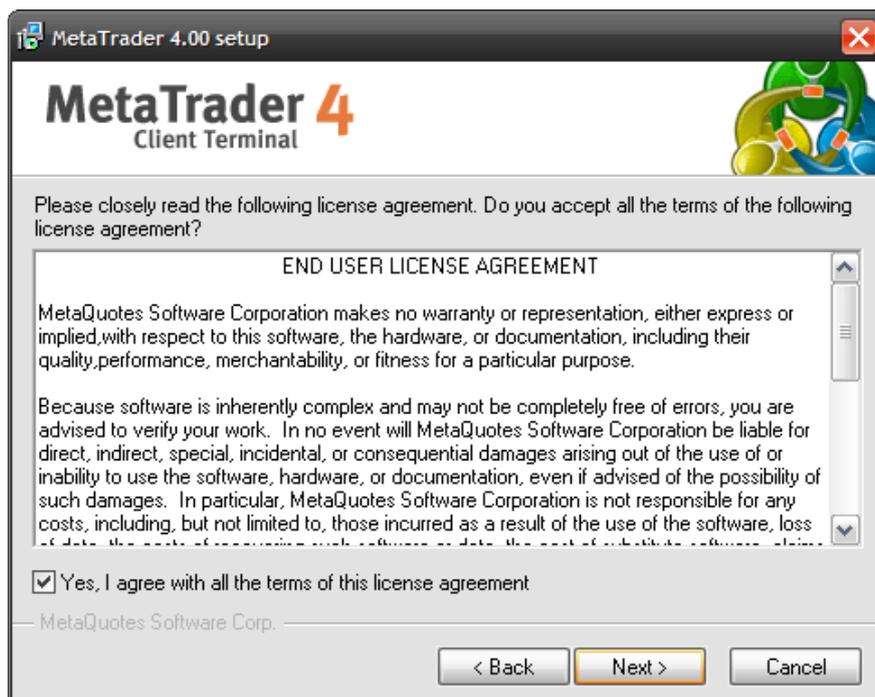
Click the  button after reading the notice.



Step 5.

In the next window check the "Yes, I agree ... " box if you agree with the terms of the license agreement.

Then press the  button.

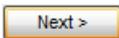


Step 6.

Select data path. The same path will be use in Steinitz MTF HAS Robot so you may write it down.

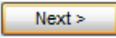
Then press the  button.

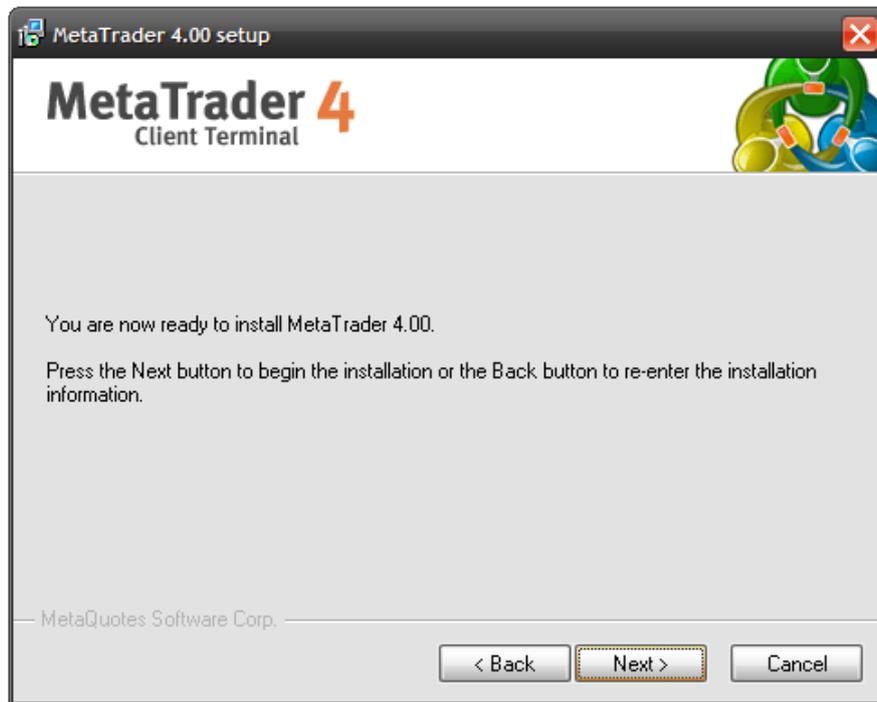
**Step 7.**

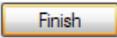
Then choose program group and press the  button.

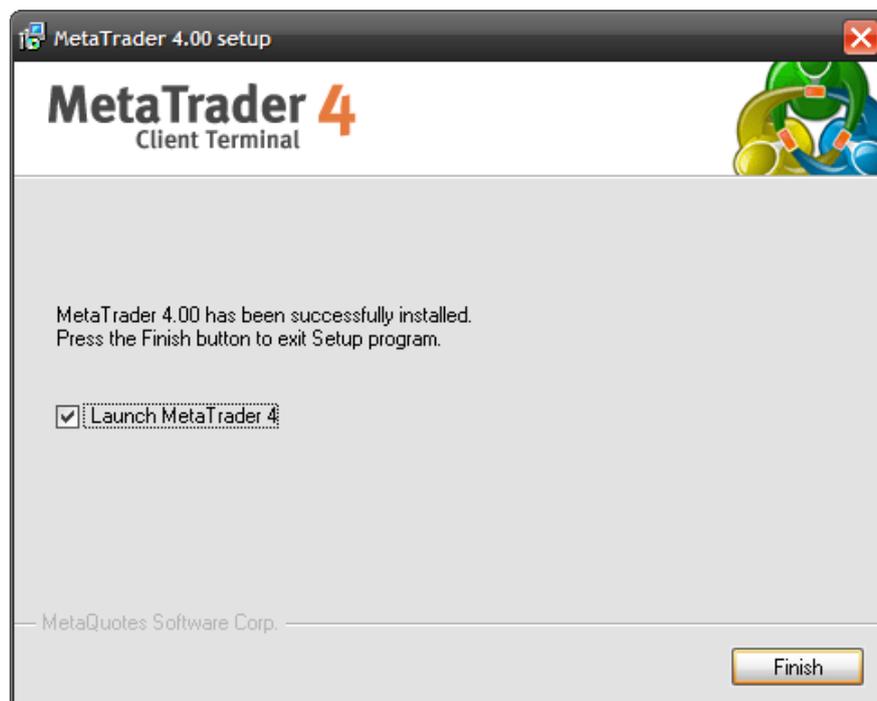


Step 8.

Press the  button to install MetaTrader 4 on your computer.

**Step 9.**

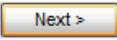
Once MetaTrader 4 has been installed you can launch it by clicking the "Launch MetaTrader 4" box. Then press the  button.

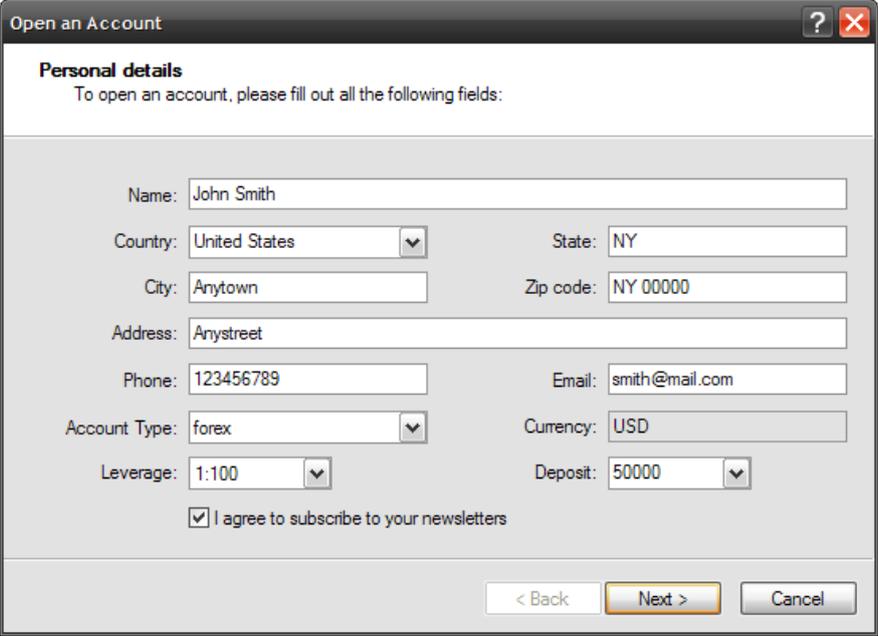


Step 10.

First-time MetaTrader 4 users will be prompted to fill in the application form to open a demo account.

After choosing your preferred leverage size and deposit value, check the "I agree to subscribe into your news letters" box.

Then press the  button.



Open an Account ? X

Personal details
To open an account, please fill out all the following fields:

Name:

Country: State:

City: Zip code:

Address:

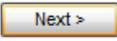
Phone: Email:

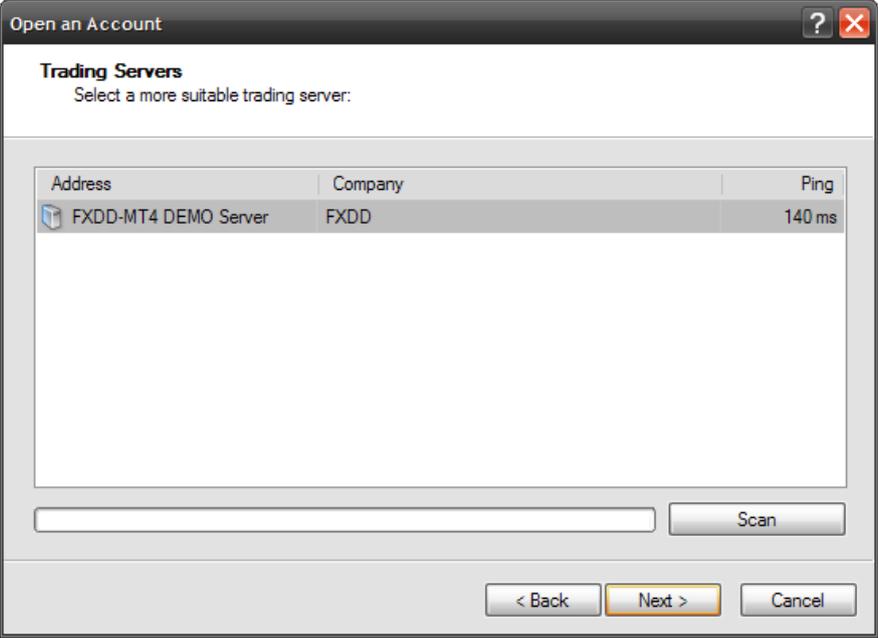
Account Type: Currency:

Leverage: Deposit:

I agree to subscribe to your newsletters

< Back **Next >** Cancel

Then press the  button.



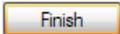
Open an Account ? X

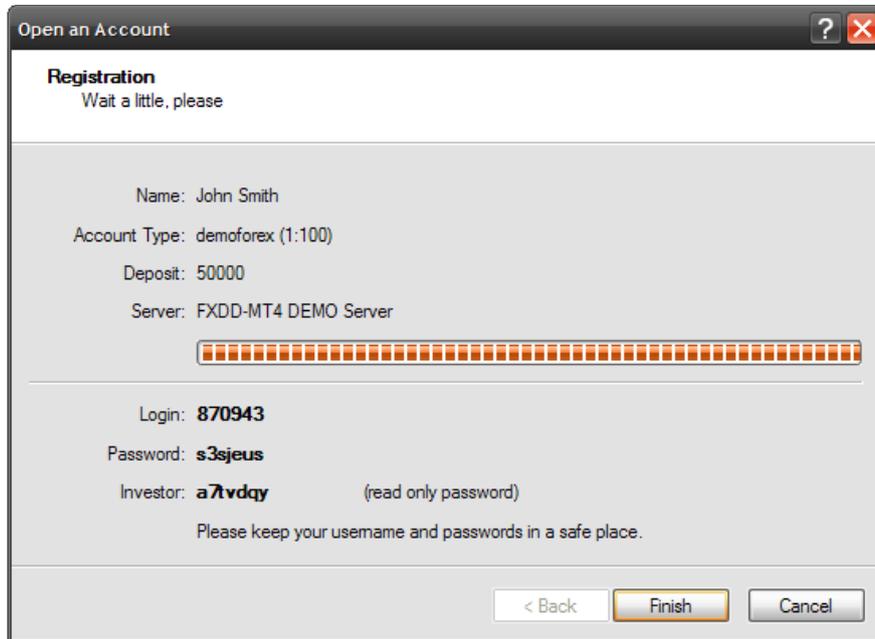
Trading Servers
Select a more suitable trading server:

Address	Company	Ping
 FXDD-MT4 DEMO Server	FXDD	140 ms

Scan

< Back **Next >** Cancel

In the following window you will see your login and password to trade on the demo account. Once you press the  button you will have access to your demo account.



The screenshot shows a window titled "Open an Account" with a "Registration" sub-header and the instruction "Wait a little, please". The account details are as follows:

- Name: John Smith
- Account Type: demoforex (1:100)
- Deposit: 50000
- Server: FXDD-MT4 DEMO Server

A progress bar is visible below the server name. The login information is:

- Login: **870943**
- Password: **s3sjeus**
- Investor: **a7vdqy** (read only password)

A note at the bottom states: "Please keep your username and passwords in a safe place." At the bottom right, there are three buttons: "< Back", "Finish", and "Cancel".



Chapter 3

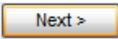
Steinitz HAS MTF Robot Installation

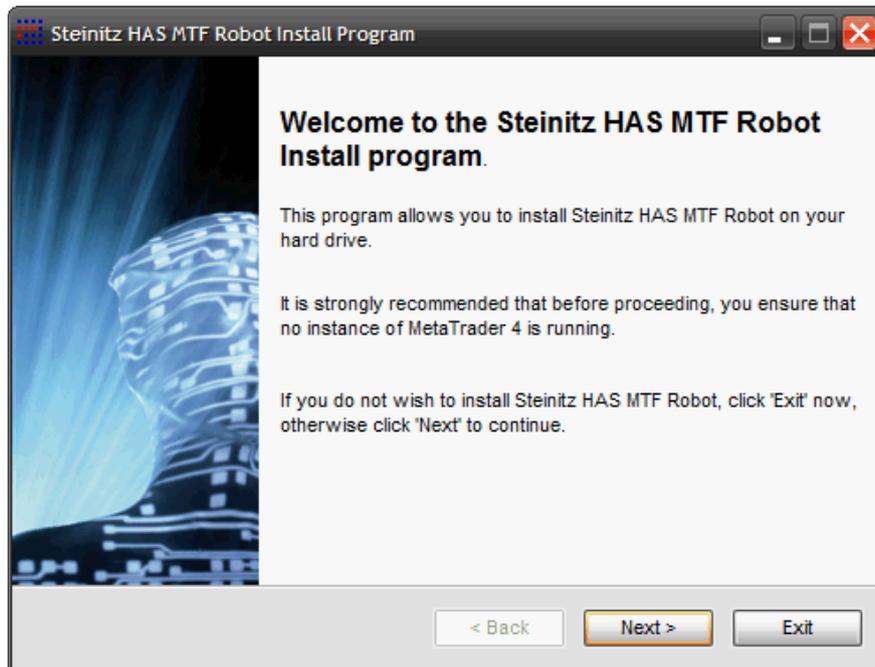


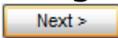
Step 1.
Download Steinitz HAS MTF Robot.exe.

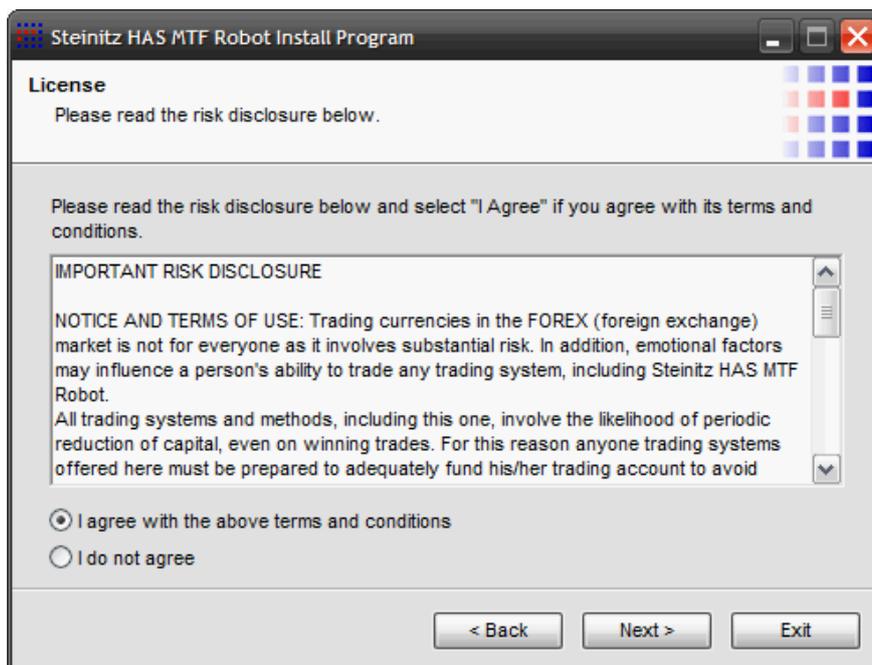
Step 2.
Double click on the Steinitz HAS MTF Robot.exe.



Step 3.
Shut down all instances of MetaTrader 4.
Then press the  button.



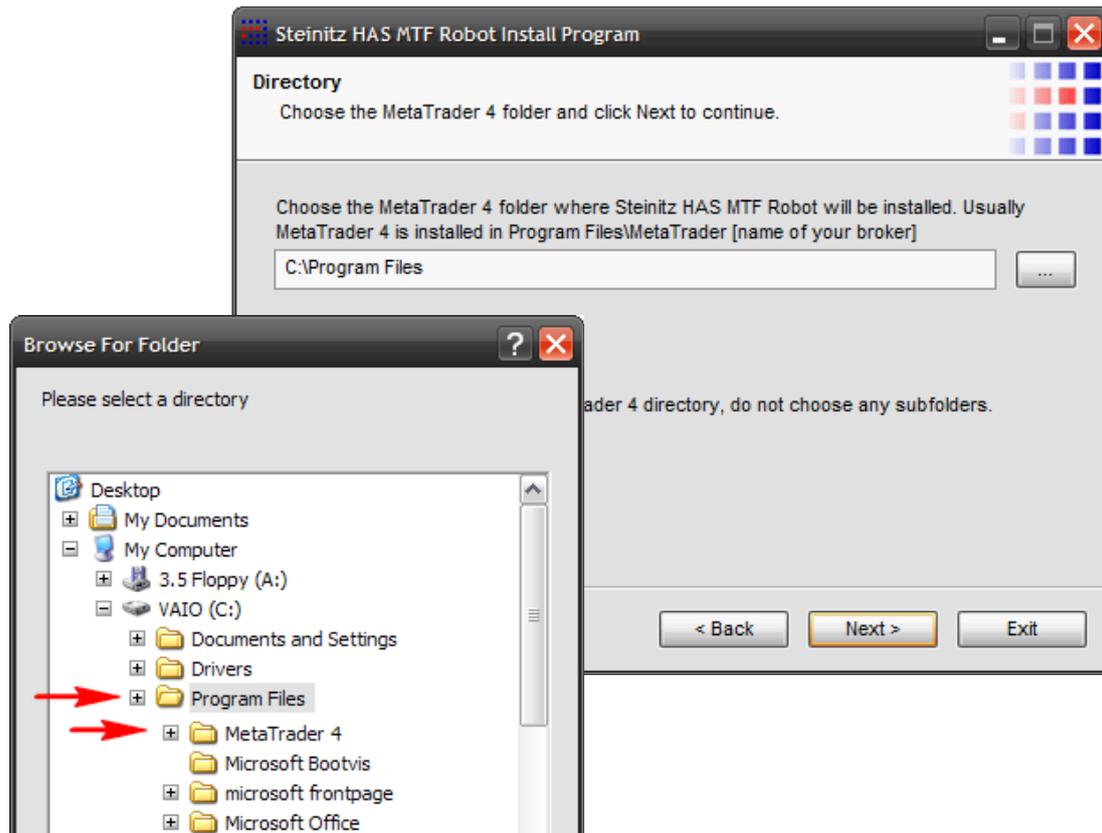
Step 4.
In the following windows check „I agree with the above terms and conditions“ if you agree with the terms of users license agreement.
Then press the  button.

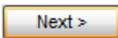


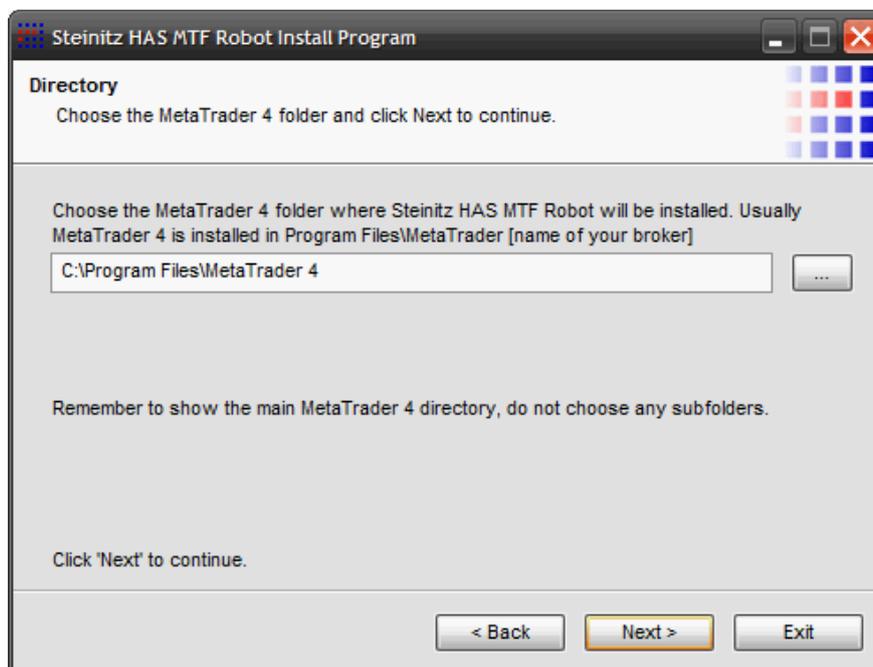
Step 5.

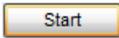
Press the  button and choose the MetaTrader directory, where Steinitz HAS MTF Robot will be installed.

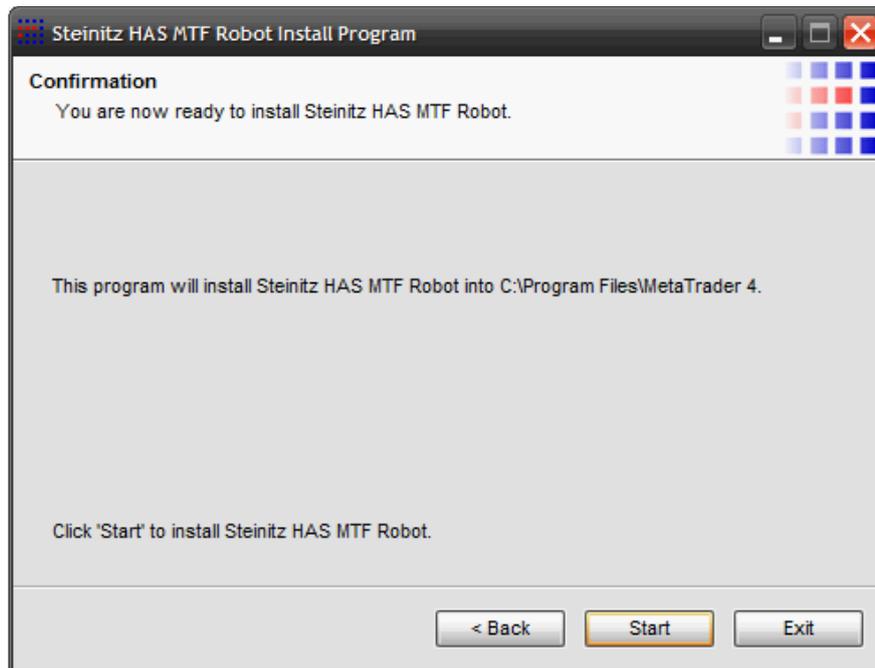
It is C:\Program Files\MetaTrader [your broker's name] in most cases. Please specify the path of main MetaTrader directory. This is crucial for proper program installation.

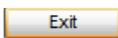


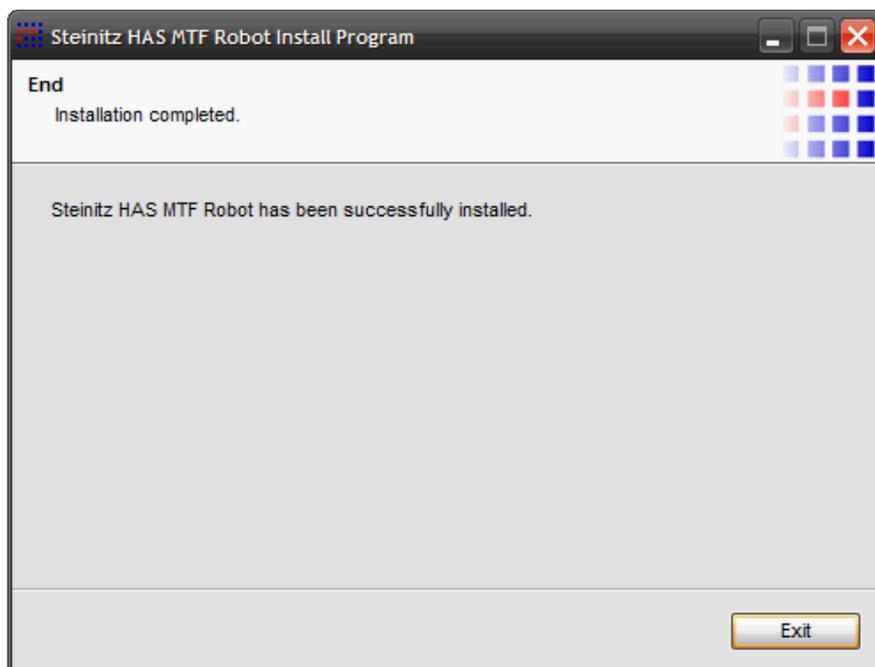
Then press the  button.



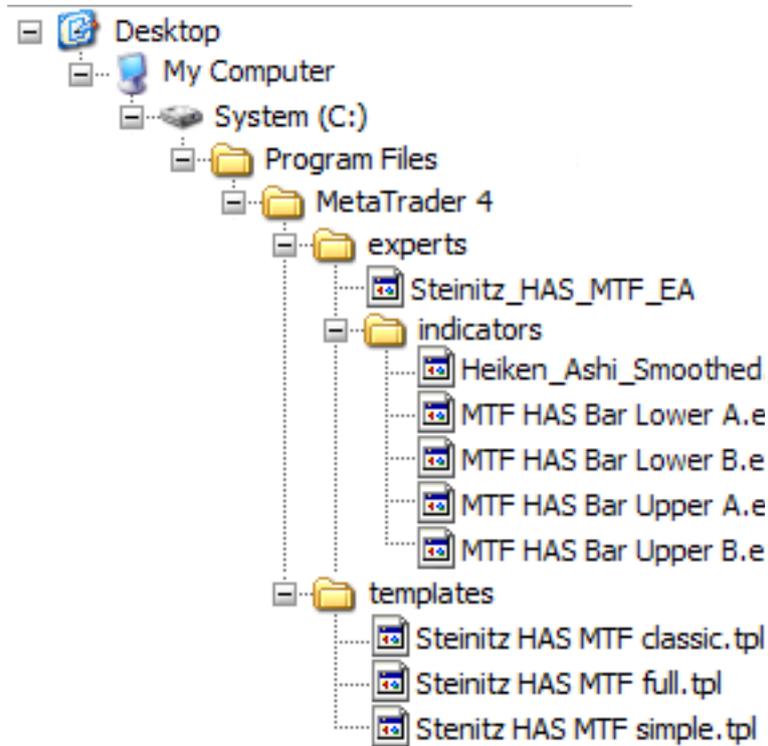
Step 6.
Check if destination directory is correct and press the  button.



Step 7.
To complete the installation press the  button on the next screen.



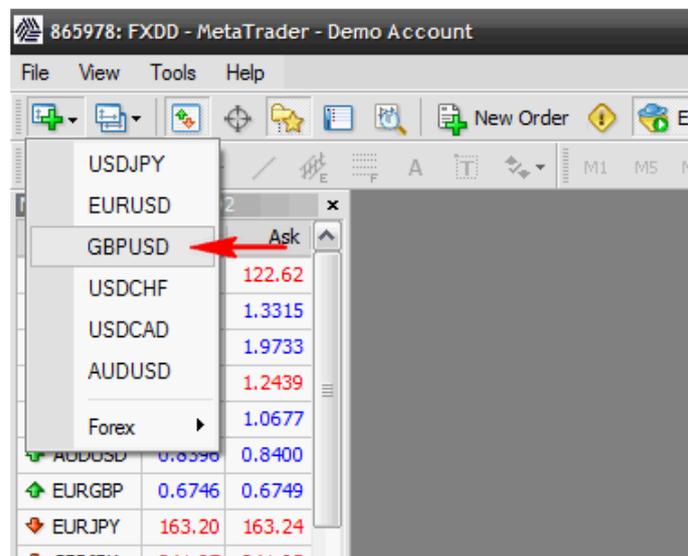
Steinitz HAS MTF Robot is now installed on your system.
Exact location of installed files is shown below.



Step 8.
Launch MetaTrader 4

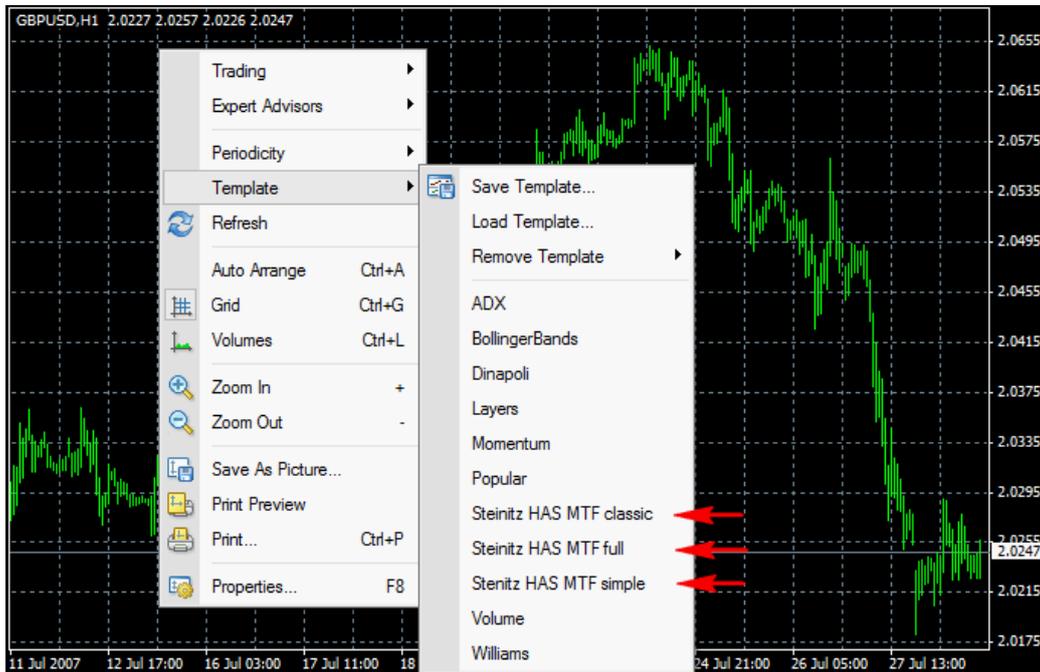


Step 9.
Open new chart using the  button.



Step 10.

Right click on the chart and choose a template from 1 of the 3 choices. Classic, full or simple.



Step 11.

Click on each timeframe from the 1-month down to the 1 minute to load historical data.

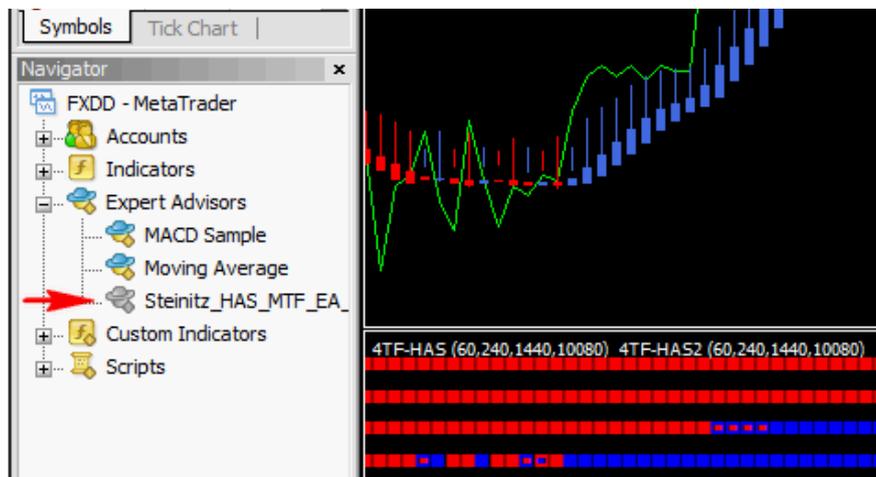


Choose which timeframe you want the chart to be left on.

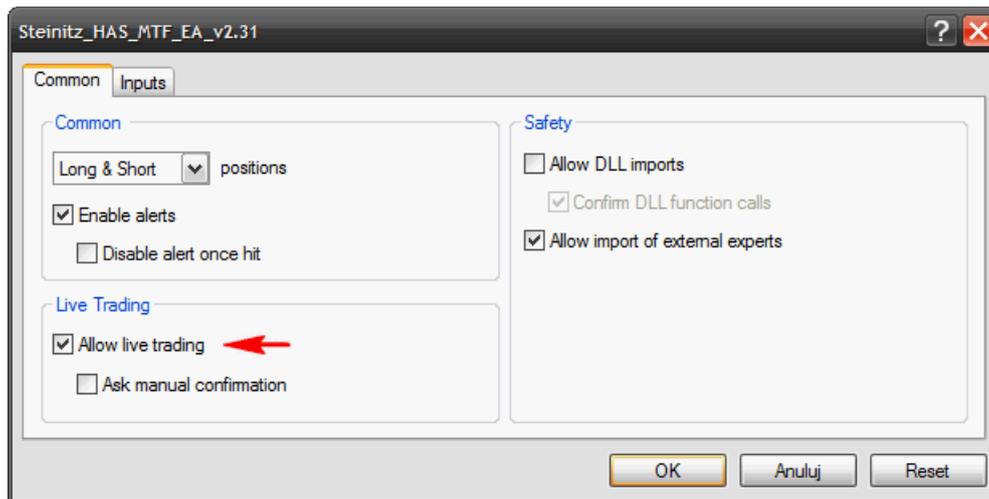
Note: to be able to view all 8 timeframes using the "Steinitz full template" you need to leave your chart on a 5 minute timeframe. It does not matter which timeframe you have the charts set to for the proper operation of the robot.

Step 12.

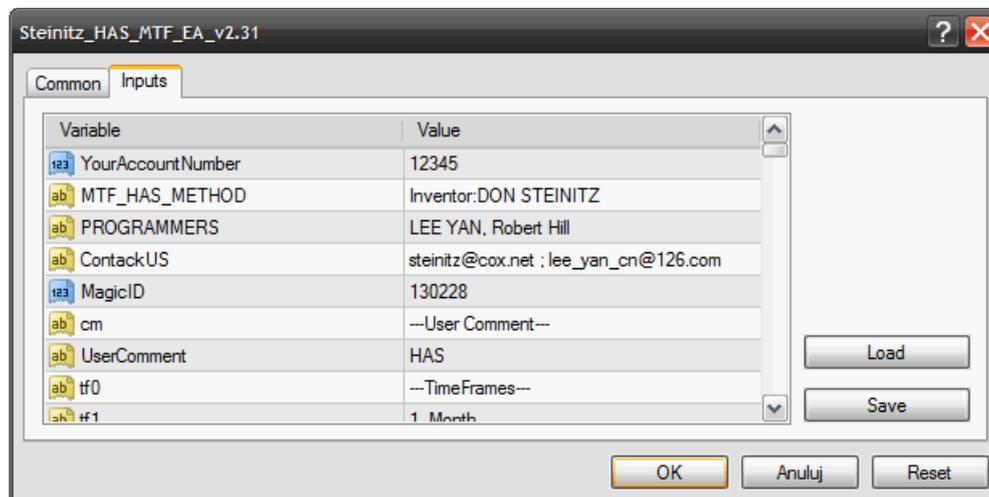
Double click on the Expert Advisor in the Navigator Window. Double click on the Steinitz_HAS_MTF_EA.



Steinitz HAS MTF Robot properties window will appear. Choose the Common Tab and check "Allow live trading" box. Than press the button.



Choose the Inputs Tab to modify Steinitz HAS MTF Robot settings (see Chapter 7). To save present settings press the button. To load new setting press the button.



For multiple currency pairs please repeat steps 9 to 12 on each chart.

Do not save the robot as a template as this will cause overwriting of the text.

Do not change timeframes on the chart after the Robot is installed as this will force a new trade.

Always open a new chart with templates (no robot attached) if you want to look at various timeframes.



Chapter 4

Before You Start: Money Management



Proper money management is the most important topic in becoming a successful trader yet the most misused by traders in general. I can tell you 99% of all issues dealing with drawdown concerns or lack of seeing similar results of mine always come back to improper money-management.

The rules for proper money-management using any of my robots are the following:

1. Never trade more than 10% of your equity when first setting up your trading platform. If you are trading more than one robot on the same platform using the same equity, divide 10% between all robots. In other words, reduce the amount lot sizes for each robot. Example: if you are trading three robots each robot should trade no more than 3% of risk capital at any one time.
2. Try to trade as many currency pairs concurrently as possible. This will help with your equity curve. Ideally you should trade 10 currencies at 1% per currency.

Here are some examples to follow:

Micro-account

\$500 account should be traded with 0.01 lots each with 5 currencies
\$1000 account should be traded with 0.01 lots each with 10 currencies
\$2000 account should be traded with 0.02 lots each with 10 currencies
\$3000 account should be traded with 0.03 lots each with 10 currencies
\$4000 account should be traded with 0.04 lots each with 10 currencies
\$5000 account should be traded with 0.05 lots each with 10 currencies
\$6000 account should be traded with 0.06 lots each with 10 currencies
\$7000 account should be traded with 0.07 lots each with 10 currencies
\$8000 account should be traded with 0.08 lots each with 10 currencies
\$9000 account should be traded with 0.09 lots each with 10 currencies

Mini account

\$5000 account should be traded with 0.1 lots each with 5 currencies
\$6000 account should be traded with 0.1 lots each with 6 currencies
\$7000 account should be traded with 0.1 lots each with 7 currencies
\$8000 account should be traded with 0.1 lots each with 8 currencies
\$9000 account should be traded with 0.1 lots each with 9 currencies
\$10000 account should be traded with 0.1 lots each with 10 currencies



Chapter 5

Multiple Time Frames Theory



To understand the importance of first arriving at a sound theory before implementing and testing a trading program, we need to briefly review the characteristics of performance that indicate a robust method.

When testing a trend-following system, we should expect that a trend of 100 days, compared with a trend of 50 days, will produce larger profits per trade, greater reliability, and proportionally fewer trades. As you increase the calculation period, this pattern continues; when you reduce the calculation period this pattern reverses. You are prevented from using very short calculation intervals because slippage and commissions become too large; the longest periods are undesirable because of large equity swings. There must be a clear, profitable pattern when plotting returns per trade versus the average holding period.

Each time frame has a logical purpose and is said to be modeled after Gann's concept that the markets are essentially geometric. The shortest time frame is the one in which you will trade, in addition, there are two longer time frames to put each one into proper perspective.

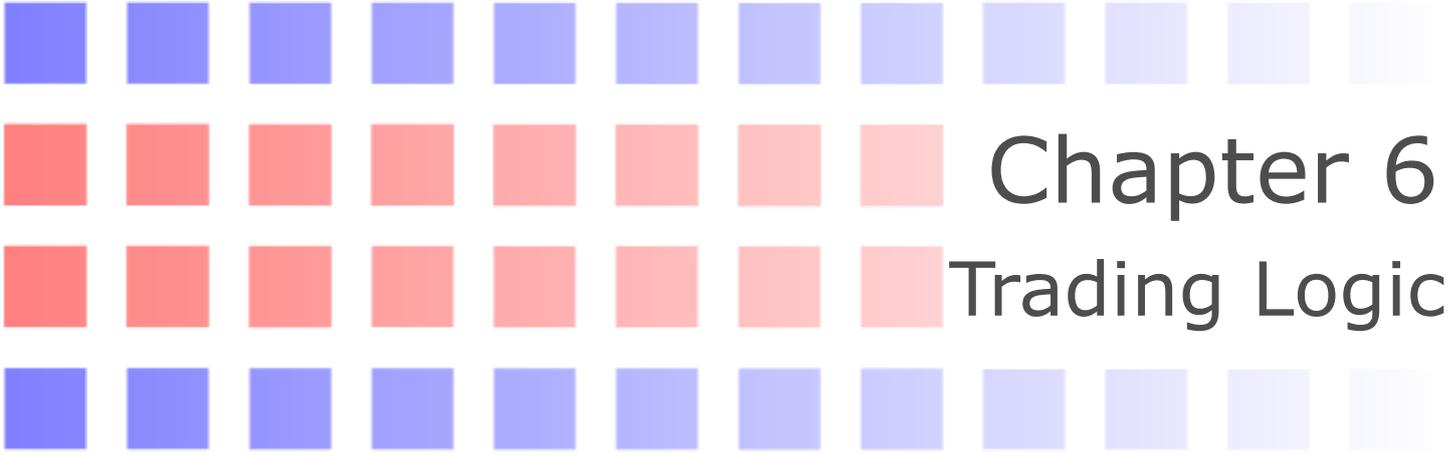
The patterns common to time frames are easily compared with fractals; within each time frame is another time frame with very similar patterns, reacting in much the same way. You cannot have an hourly chart without a 15-minute chart, because the longer time period is composed of shorter periods; and, if the geometry holds, then characteristics that work in one time frame, such as support and resistance, should work in shorter and longer time frames. Within each time frame there are unique levels of support and resistance; when they converge, the chance of success is increased. The relationships between price levels and profit targets are woven with Fibonacci ratios and the principles of Gann.

One primary advantage of using multiple time frames is that you can see a pattern develop sooner. A trend that appears on a weekly chart could have been seen first on the daily chart. The same logic follows for other chart formations. Similarly, the application of patterns, such as support and resistance, is the same within each time frame. When a support line appears at about the same level in hourly, daily, and weekly charts, it gains importance.

Laws of Multiple Time Frames

1. Every time frame has its own structure.
2. The higher time frames overrule the lower time frames.
3. Prices in the lower time frame structure tend to respect the energy points of the higher time frame structure.

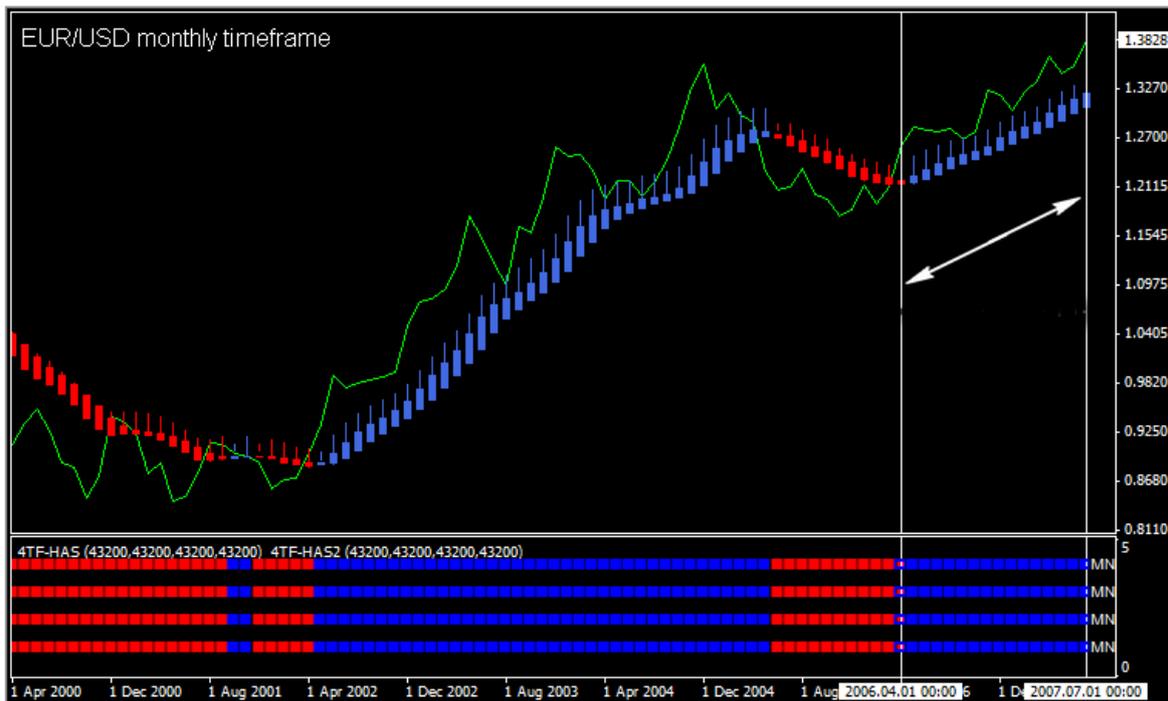
4. The energy points of support/resistance created by the higher time frame's vibration (prices) can be validated by the action of lower time periods.
5. The trend created by the next time period enables us to define the tradable trend.
6. What appears to be chaos in one time period can be order in another time period.



Chapter 6

Trading Logic

EUR/USD Monthly Timeframe (Long)



This is an image taken straight from the Meta Trader 4 platform. It depicts the "Heiken Ashi Smoothed" (HAS) indicator (on top) and the "MTF HAS Bar Lower A" and "MTF HAS Bar Lower B" (at bottom). This of course depicts an upward trend. The two MTF HAS Bar indicators actually overlap each other enabling the wick color of the HAS indicator to be seen as a red dot in the middle of a blue square or a blue dot in the middle of a red square.

The upper wick color always determines the color of the candlestick of the HAS indicator and the color of the MTF HAS Bars. The outside color of the MTF HAS Bar is the same as the wick color. It should be pointed out that the HAS indicator not only shows the direction of the trend, blue for up and red for down but also shows the change in volatility.

If you look closely to the wick and body of the HAS indicator you will notice that some candles have a different height and some wicks have a different wick height as well. This is the nature of the Heiken Ashi Smoothed indicator as it will exhibit these traits based on how strong or weak the price movement is.

The body of the candle is calculated from the open and the close price and the wick is calculated off of the high and the low of price. When the price moves strongly up or down the HAS candle will have a higher body. Conversely, when price moves weakly the candle body will shorten. The wick height will also lengthen or shorten based on market volatility.

The wick vs. body relationship is a great barometer to judge the changing in market sentiment or change in volatility. The higher the wick and shorter the body the more likely to see a change in direction of the market.

EUR/USD Weekly Timeframe (Long)

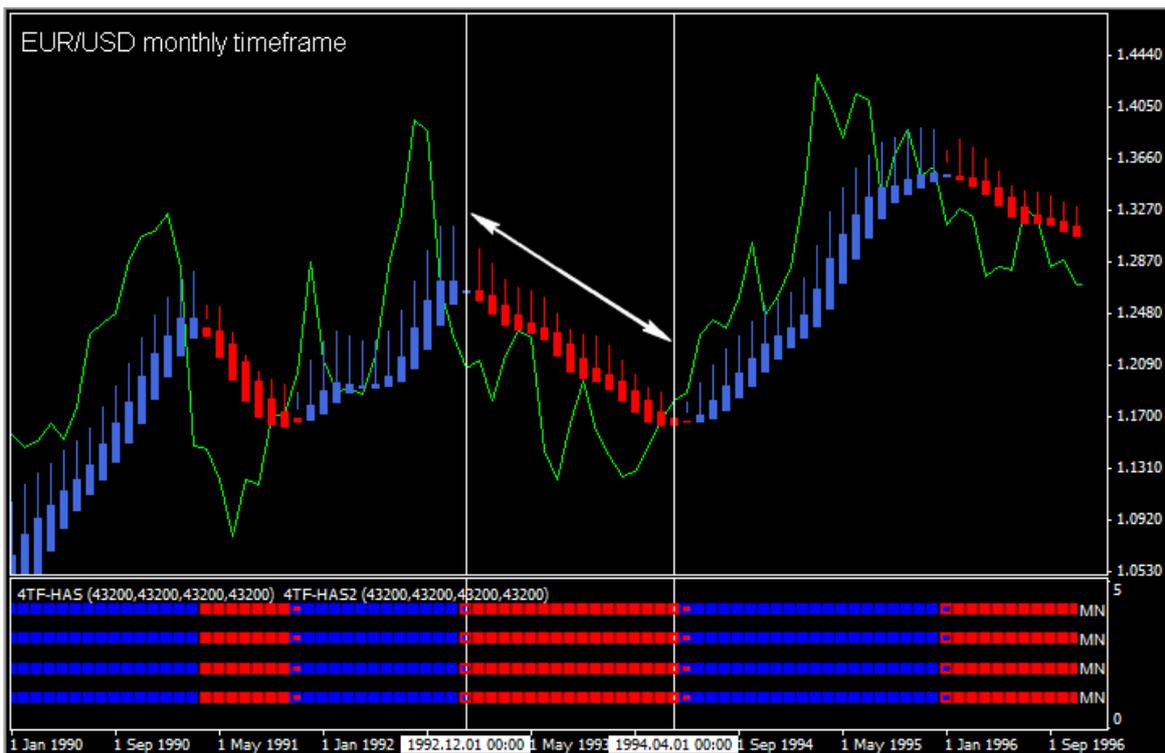


This chart shows what happens when the "Steinitz HAS MTF Robot" starts from the highest timeframe (monthly) and scans one lower timeframe at a time until it comes to the first counter trend. In this example it found the (weekly) timeframe as our first counter trend.

As soon as the Robot finds a counter trend as indicated by a red bar the program goes into "alert" status and waits for the first opportunity to enter the market immediately after a blue bar is formed. What we have accomplished here separates winning traders from losing ones. It is a fact that most all traders get into the market AFTER they see the price moving the direction of the position they wish to trade. What invariably happens is they buy high and sell low. Since we are able to get in before the majority of the market participants we can be first to buy low and sell high!

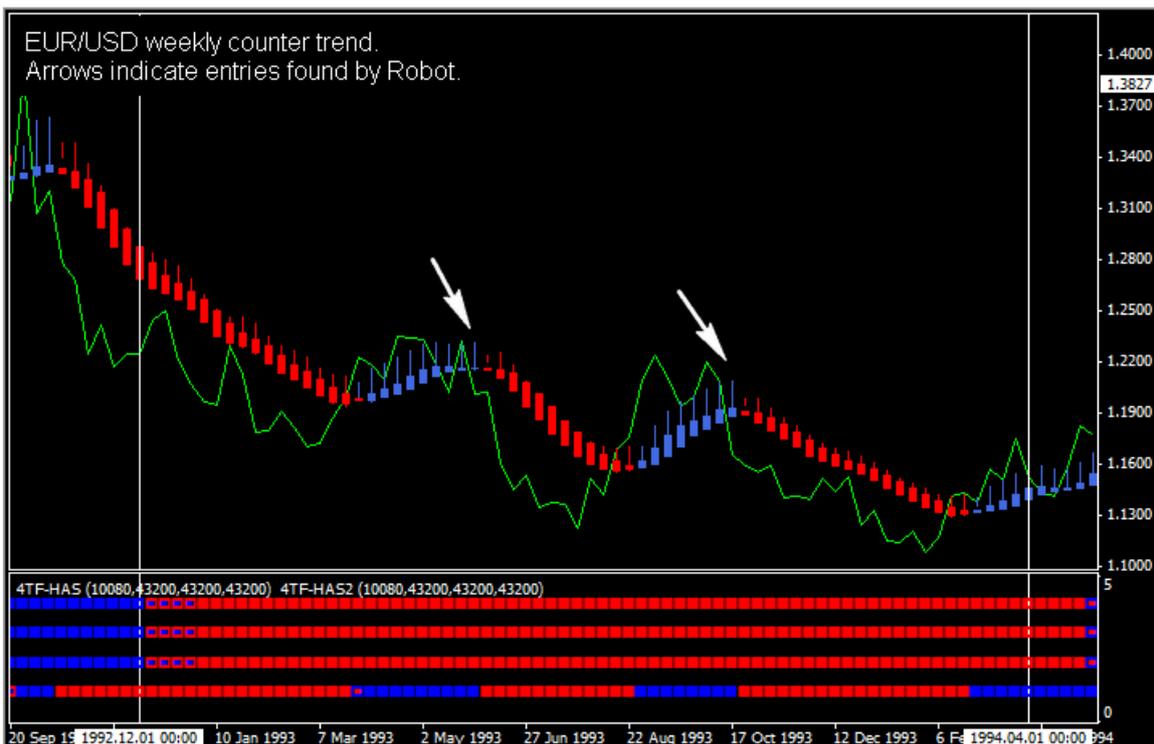
This statement alone is by far the most powerful tool that you the trader can possess. I cannot over emphasize enough how important this concept is to your bottom line and success rate!

EUR/USD Monthly Timeframe (Short)



Here is another example of an image taken straight from the Meta Trader 4 platform. It depicts the "Heiken Ashi Smoothed" (HAS) indicator (on top) and the "MTF HAS Bar Lower A" and "MTF HAS Bar Lower B" (at bottom). This time the monthly trend is down.

EUR/USD Weekly Timeframe (Short)



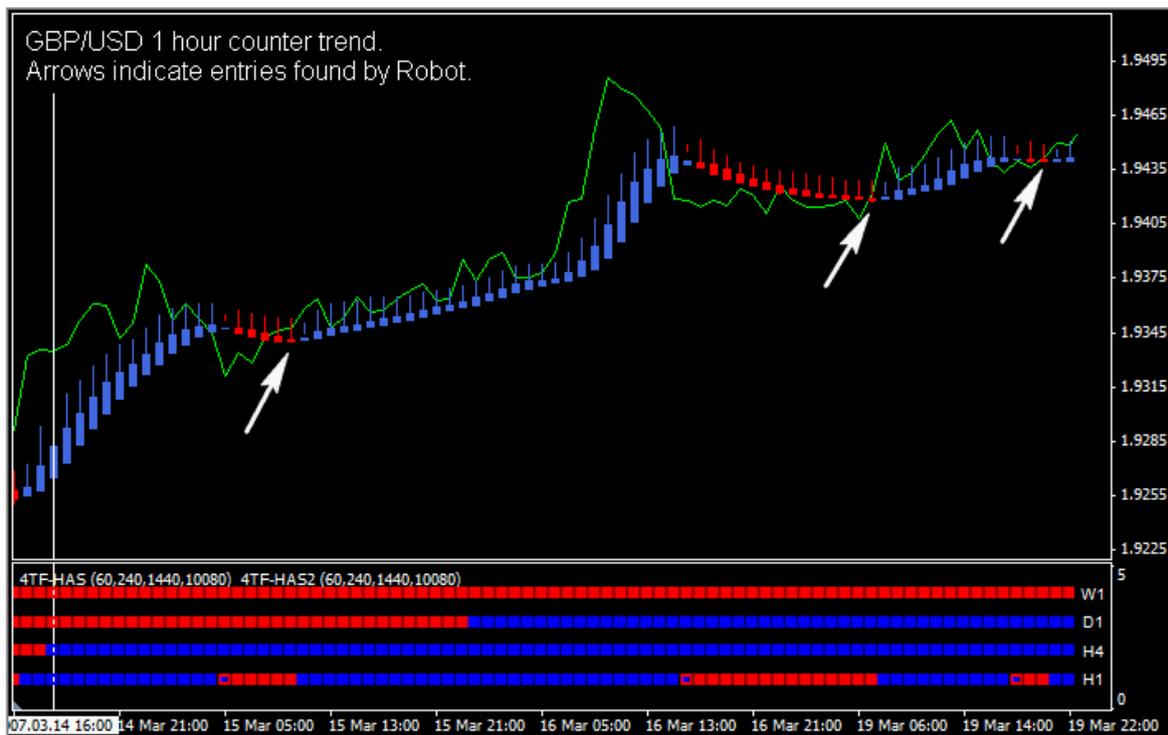
This chart shows what happens when the Steinitz HAS MTF Robot starts from the highest timeframe (monthly) and scans one lower timeframe at a time until it comes to the first counter trend. In this example it found the (weekly) timeframe as our first counter trend. As soon as the Robot finds a counter trend as indicated by a blue bar the program goes into "alert" status and waits for the first opportunity to enter the market immediately after a red bar is formed. Notice how the HAS candles tend to shorten as they signal a potential change in trend.

GBP/USD 4 Hour Timeframe (long)



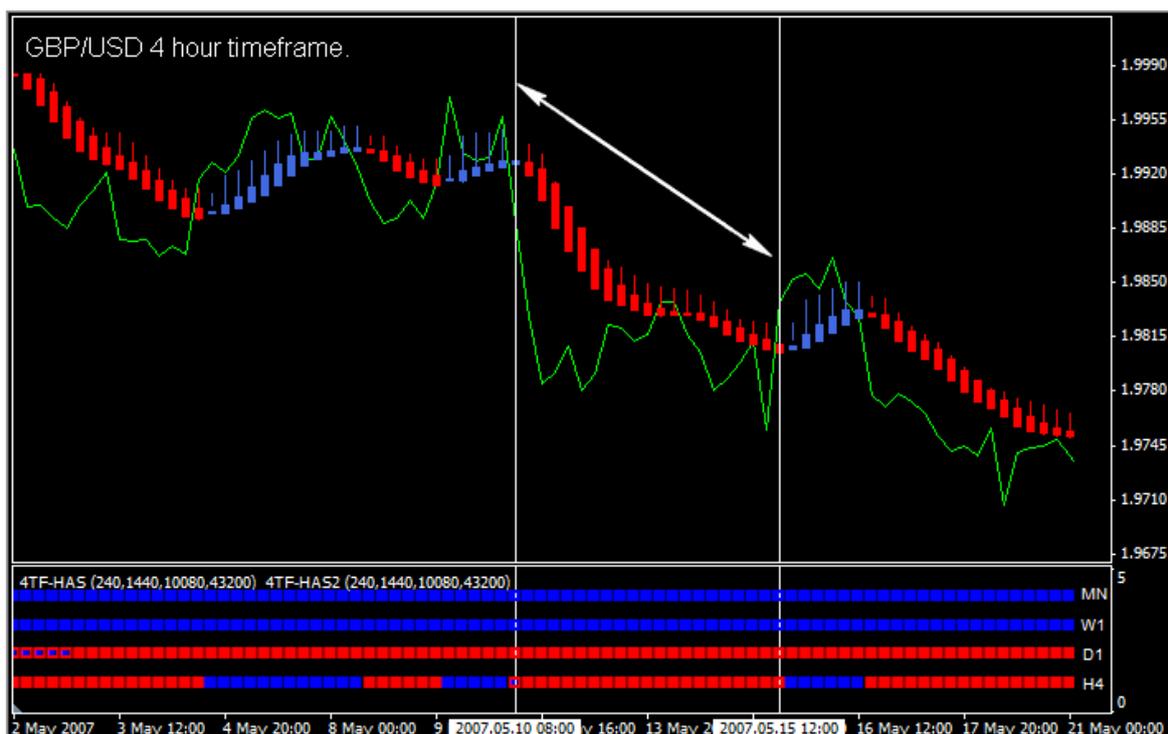
Here above we see the GBP/USD on the 4 hour timeframe. Once again we have instructed the Robot to start here as our highest timeframe and enter only on long positions when those opportunities present themselves.

GBP/USD 1 Hour Timeframe (long)



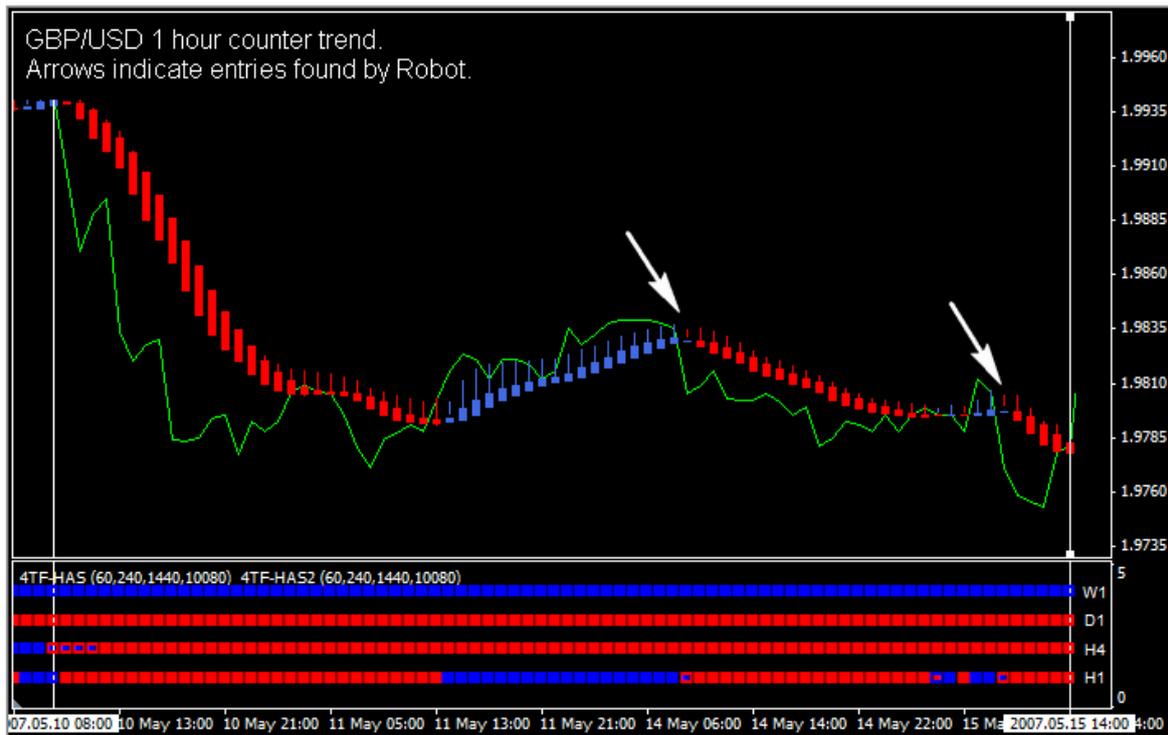
This chart is an expansion of the GBP/USD 4 hour timeframe (above) that shows you in detail what counter trends made up that longer timeframe. Again the Robot found these counter trends and entered precisely at the right time giving us a perfect opportunity to buy low and sell high.

GBP/USD 4 Hour Timeframe (Short)



Here above we see the GBP/USD on the 4 hour timeframe. Once again we have instructed the Robot to start here as our highest timeframe and enter only on short positions when those opportunities present themselves.

GBP/USD 1 Hour Timeframe (Short)



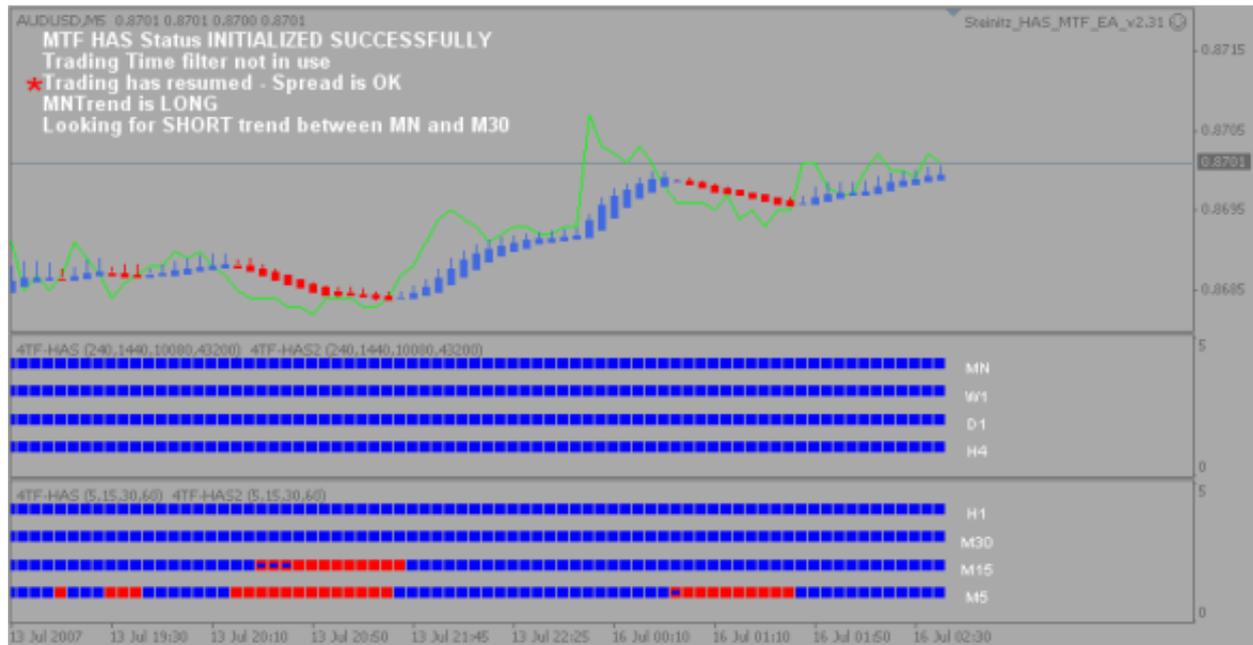
This chart is an expansion of the GBP/USD 4 hour timeframe (above) that shows you in detail what counter trends made up that longer timeframe. Again the Robot found these counter trends and entered precisely at the right time giving us a perfect opportunity to sell high and buy low.



Chapter 7

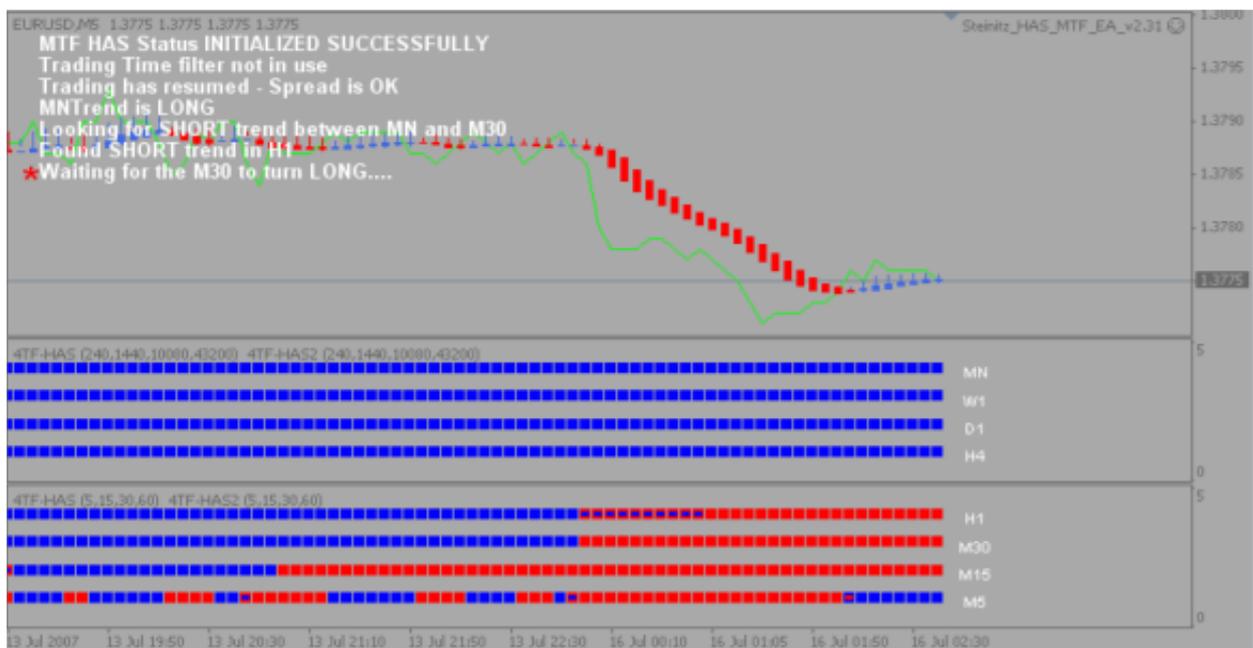
Steinitz HAS MTF Robot in Action





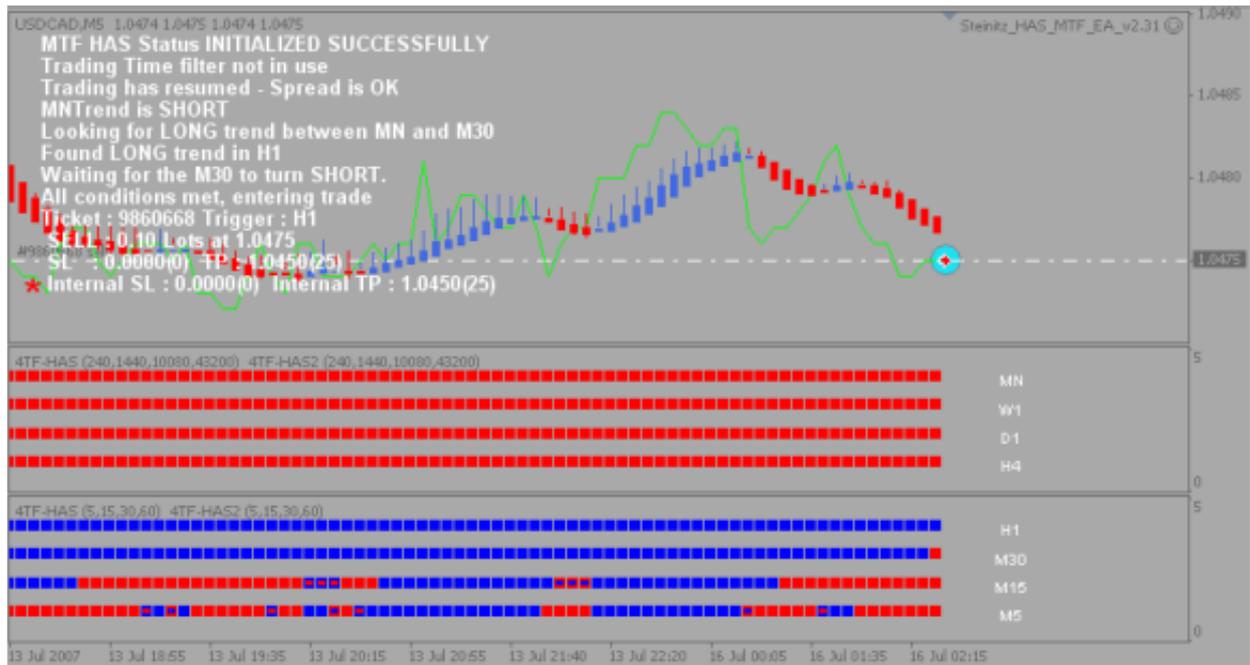
Trade search:

Steinitz HAS MTF Robot is not using Trading Hours option.
Wide spread detection is activated – spread is below 8 pips.
Monthly trend is long so the Robot is looking for counter trend (short) between monthly and 30 minute time frames.



Trade search:

Steinitz HAS MTF Robot is not using Trading Hours option.
Wide spread detection is activated – spread is below 8 pips.
Monthly trend is long so the Robot is looking for counter trend (short) between monthly and 30 minute time frames.
First counter trend is found on the 1 hour time frame.
Now Robot waits for long condition on the 30 minute time frame. When long condition is found Robot will enter a trade.

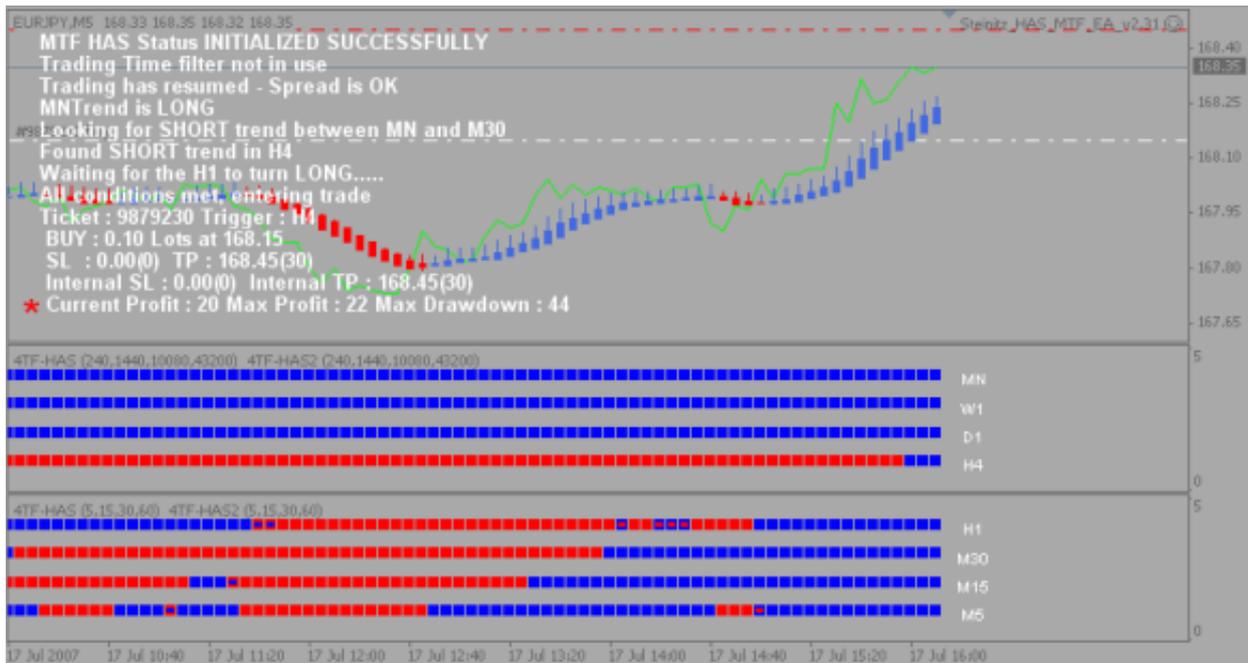


Trade search:

Steinitz HAS MTF Robot is not using Trading Hours option.
 Wide spread detection is activated – spread is below 8 pips.
 Monthly trend is short so the Robot is looking for counter trend (long) between monthly and 30 minute time frames.
 First counter trend is found on the 1 hour time frame.
 Now Robot waits for short condition on the 30 minute time frame to place the trade.

Trade details:

Trade ticket number: 9860668
 Triggered on 1 hour time frame.
 0.1 lots sold at 1.0475 (short)
 Stop loss: none, Take profit: 1.0450 (25 pips) - both values are stored on Brokers server.
 Internal Stoploss: none, Internal Take Profit: 1.0450 (25 pips) – both values are stored on users PC.
 Trade was just entered so there is no information about profit/loss and drawdown.

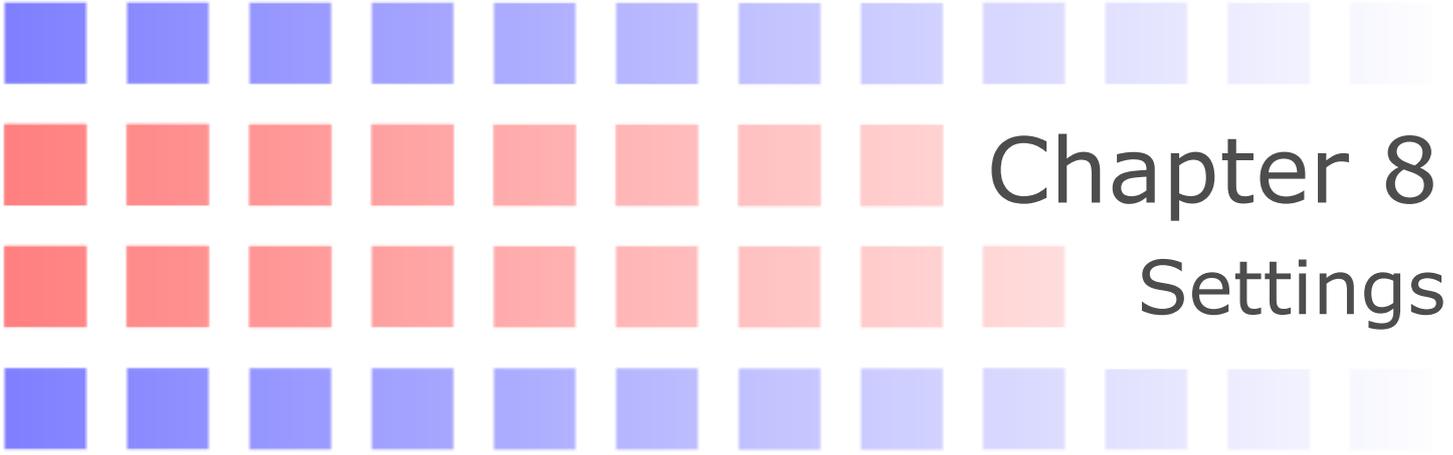


Trade search:

Steinitz HAS MTF Robot is not using Trading Hours option.
 Wide spread detection is activated – spread is below 8 pips.
 Monthly trend is long so the Robot is looking for counter trend (short) between monthly and 30 minute time frames.
 First counter trend is found on the 4 hour time frame.
 Now Robot waits for long condition on the 1 hour time frame. After long condition is found on H1 Steinitz HAS MTF Robot enters a long trade.

Trade details:

Trade ticket number: 9879230
 Triggered on the 4 hour time frame.
 0.1 lots bought at 168.15 (long)
 Stop loss: none, Take profit: 168.45 (30 pips) - both values are stored on Brokers server.
 Internal Stoploss: none, Internal Take Profit: 168.45 (30 pips) – both values are stored on users PC.
 Current profit is 20 pips, maximum profit for this trade was 22 pips and maximum drawdown for this trade was 44 pips.



Chapter 8

Settings

Your Account Number

This is used to enter your live account number so that the "Expert Advisor" is able to operate normally. The EA checks to make sure the number you entered matches the live account of your brokers platform. You will need to have me hard code your live account number for this to operate normally. The EA will confirm with a message that you have entered the account information correctly or incorrectly. If you intend to use this as a demo you do not need to change the default setting of "12345".

Magic Base

Magic Base number is an integer, associated with the order. We are going to extend it a little bit. For our experts, the magic base number will uniquely identify a combination of an expert (expert name), a currency (say, EURUSD) and a time frame (say, H1).

HAS Inputs

These are the internal setting of the Heiken Ashi Smoothed or "HAS" indicator. These values have been tested and found to give the best interpretation of price movement. The values are an average of the open, high, low and close and thus filters the noise to give you more of a smoothed average to allow a better view of the trend.

ab	has	--HAS Inputs--
123	MaMethod	2
123	MaPeriod	6
123	MaMethod2	3
123	MaPeriod2	2

TimeFrames

This section is the heart of the Robot. This is where you choose which timeframes you wish to have the Robot scan when looking for a counter trend. Notice how each time frame has it's own number associated with it. For example Month = 1, Week = 2 and Day = 3 etc. The range is from Month down to 5 Minutes.

ab	tf0	--TimeFrames--
ab	tf1	1. Month
ab	tf2	2. Week
ab	tf3	3. Day
ab	tf4	4. 4 Hour
ab	tf5	5. 1 Hour
ab	tf6	6. 30 minute
ab	tf7	7. 15 minute
ab	tf8	8. 5 minute

Higher TF Set 1 123 HigherTF_Set1 | 1

This is where you choose the primary settings highest TF that you want the Robot to start its search for a counter trend. The Robot always scans from top to bottom. Also known as a top/bottom approach.

Lower TF Set 1 123 LowerTF_Set1 | 6

This is where you choose the primary settings lowest TF that you want the Robot to end its search for a counter trend. The Robot always scans from top to bottom.

Upper TF Set 1 123 UpperTF_Set1 | 1

This is where you enter a number associated with the timeframes (as explained above) to act as a filter to allow trading if the upper TF's are the same color as the high TF. It's best to give an example to fully understand this function.

Let's say you have picked your high TF as number #4 (4 hour). If you choose #3 as your "upper TF" then you are essentially requiring the EA to only allow a trade if the daily is the same color as the 4 hour timeframes. If you had picked #2 instead you are requiring that the week are the same color (trend direction) as the 4 hour.

Use Switch Set 123 UseSwitchSet | 1

This input can be changed from 0 (false) to 1 (true). If true the EA will switch from set 1 (primary) to set 2 (secondary) when the Switch TF is an opposite color of all the upper timeframes. This feature allows EA to use separate settings for trending and ranging markets.

Switch Set TF 123 SwitchSetTF | 3

This is where you choose the time frame which determines change from set 1 (primary) to set 2 (secondary). Set #2 takes over when the Switch TF color changes out of sync with all the upper TF's. This new TF by default always becomes the upper TF.

Higher TF Set 2 123 HigherTF_Set2 | 4

This is where you choose the secondary settings highest TF (aka High TF) that you want the Robot to start its search for a counter trend. The Robot always scans from top to bottom.

Lower TF Set 2

123	LowerTF_Set2	8
-----	--------------	---

This is where you choose the secondary settings lowest TF (aka Low TF) that you want the Robot to end its search for a counter trend. The Robot always scans from top to bottom.

Confirm Upper Time Frame Set 1 & Set 2

This input can be changed from 0 (false) to 1 (true). If true the EA looks at the "upper TF" that is chosen as a filter before a trade is considered valid. This feature ensures that the Upper TF is in the same trend direction as the high TF. Set 1 and Set 2 can be adjust separately.

123	ConfirmUpperTimeFrame_Set1	1
123	ConfirmUpperTimeFrame_Set2	1

Confirm All Timeframes Set 1 & Set 2

When this function is set to 1 (true) all timeframes from from "Upper TF" to "High TF" are checked to make sure they are all in sync going in the same trend direction. When set to 0 (false) only the Upper TF closed candle is checked. Set 1 and Set 2 confirmations can be adjust separately.

123	ConfirmAllTimeFrames_Set1	1
123	ConfirmAllTimeFrames_Set2	1

Confirm Alert Timeframe

123	ConfirmAlertTimeFrame	1
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This input can be changed from 0 (false) to 1 (true). If true Alert TF is checked to make sure it is the opposite color of the entry TF. This is 1 of 2 functions performed just prior to entering a trade when all other conditions are correct.

Timeframe Entry

This function is to determine which timeframe once the counter trend is found to enter on. The two choices are 1. Enter on alerted time frame -1 unclosed candle or 2. Enter on alerted time frame -1 closed candle.

ab	en0	-- Timeframe Entry--
ab	en1	1. Enter on Alerted time frame - 1 unclosed...
ab	en2	2. Enter on Alerted time frame - 1 closed c...

Enter On Alerted

123	EnterOnAlerted	1
-----	----------------	---

The choices for this input are either 1 or 2.

Hedge Timeframe Entry
Hedge Enter On Alerted

123 EnterOnAlerted	1
--------------------	---

Default setting is 2. There are two types of hedging that you can choose from. Here is where you decide which type of hedging method you want to use. Note: You can only use one type at a time.

Enter on alerted time frame will enter a trade immediately on the counter trend in the direction of the color (blue = long, red = short) as soon as the robot identifies a counter trend aka "alert timeframe".

If you choose setting 1 the robot will place a hedge trade in the opposite direction of the primary trade (alert TF -1) immediately.

Enter On Fresh Signal

123 EnterOnFreshSignal	0
------------------------	---

Default setting is 0 (false). This can be changed to true if you wish the EA to halt any new orders immediately after the EA is applied to the chart and enabled for trading. This feature insures that you will get into a trade on a fresh signal thereby eliminating any late entries when all conditions are met.

Slippage

123 Slippage	3
--------------	---

Default setting is 3 pips. This function determines how much slippage is considered acceptable.

Profit Timeframe Exit - Exit & Hedge Exit On Alerted Profit

There are 5 choices for this feature. 0 through 5. Choice #1 has you exit on alert TF -1 unclosed candle when the internal take profit or exit trigger (discussed later) is hit. When you are in profit territory and your internal TP or Exit Trigger is hit allows this function

ab ep	-- Profit Timeframe Exit--
ab ep0	0. Do Not Use
ab ep1	1. Alert Timeframe - 1 unclosed candle
ab ep2	2. Alert Timeframe - 1 closed candle
ab ep3	3. Alert Timeframe unclosed candle
ab ep4	4. Alert Timeframe closed candle
ab ep5	5. Exit at Take Profit
123 ExitOnAlertedProfit_Set1	4
123 ExitOnAlertedProfit_Set2	4
123 HedgeExitOnAlertedProfit	1

to close you out when there is a change in color based on the four choices available. All other choices apply to this logic. Choose zero to not use this function. Choice #5 refers to taking profit based on the default TP settings (referred to later).

Use Partial Close

Default setting is 0 (false). If you change this to 1 (true) it will close down half the position when the trade hits the internal TP or Trigger. This portion of the trade that is closed will be shown in your closed positions and will reflect on your current balance.

123	UsePartialClose_Set1	0
123	UsePartialClose_Set2	0

Round Up 123 RoundUp | 0

Default setting is 0 (false). What this does is divide the lot(s) size in profit by 2. If the lot size is an odd number like 3 the result will be 1.5. If set to round down it will change this number to 1 and close that lots size in profit. If set to round up it will change that number to 2 and close that lot(s) size in profit. The remaining trade will continue until further action (see other TP functions).

Exit Trigger

Default setting is 1 (true). This trigger will replace Take Profit trigger used to control alert exit, partial close and trailing stop functions. Default values (pips): Set1=20 , Set2=15, Hedge=10

123	UseTrigger_Set1	1
123	ExitTrigger_Set1	20
123	UseTrigger_Set2	1
123	ExitTrigger_Set2	15
123	HedgeUseTrigger	1
123	HedgeExitTrigger	10

Exit at Set Change Signal 123 UseExitOnSetChangeSignal | 0

Default setting is 0 (false). When set to 1 (true) EA exits current trade on every Set change.

Delay Time After Small Loss

If any trade enters and exits within two minutes for a loss of 10 pips or less (user adjustable) that currency only will be halted allowing no future trades for 30 minutes (user adjustable).

123	useDelayAfterLoss	1
123	LossSizeInPips	10
123	MinutesToDelay	30

Trailing Stop Loss ts0 --TrailingStopLoss--

There are seven possibilities for this switch.

Set 1, Set 2 and Hedge trailings stops can be adjust separately.

 TrailingStopMethod_Set1	2
 TrailingStopMethod_Set2	2
 HedgeTrailingStopMethod	2

1. None. ts1 1. None

In this case the switch is inactive and no action taken.

2. Breakeven at TP or Trigger. ts2 2. BreakEven at TP or Trigger

The position if already in profit territory (TP or Trigger reached) and heads backwards will close out in BreakEvenLock value (default 10) which is equal to your entry price + 10 pips. Hedge trade will close out in HedgeBreakEvenLock value (default 5). Set 1, Set 2 and Hedge BreakEvenLock can be adjust separately.

 ts8	2. BreakEven at TP/Trigger setting
 BreakEvenLock_Set1	10
 BreakEvenLock_Set2	10
 HedgeBreakEvenLock	5

3. Standard at TP or Trigger. ts3 3. Standard at TP or Trigger

In this setting the TS will trail behind the position if the trade is in profit (TP or Trigger reached). If the market moves in your favor the TS will follow behind by "X" pips (set by user, default 25) and continue to modify the SL at a higher profit level. If the market moves against this profitable position the TS will halt and if the trade moves backwards by "X" pips the trade is closed.

 ts9	3. Standard at TP/Trigger setting
 TrailingStop	25
 HedgeTrailingStop	25

4. Breakeven at input. ts6 4. Breakeven at input

The position if in profit by the BreakEvenLevel value (default 30) and heads backwards will close out in LockInPips value (default 5) which is equal to your entry price + 5 pips. Default values for Hedge trade are 10 (BreakEven Level) and 1 (LockInPips).

 ts11	4. Breakeven at input settings
 BreakEvenLevel	30.0
 LockInPips	5
 HedgeBreakEvenLevel	10.0
 HedgeLockInPips	1

5. Standard at input.

ab ts5

5. Standard at input

Trailing stop will trail behind the position if the trade is in profit by the Standard at input setting value (default 35 and 15 - Hedge).

ab ts10	5. Standard at input setting
1/2 Begin Trailing Stop	35.0
1/2 Hedge Begin Trailing Stop	15.0

6. Trail immediately.

ab ts4

6. Trail immediately

Begins moving trailing stop pip for pip as soon as the trade is in profit (by at least 1 pip). This function is used in conjunction with a stop loss. The position will trail by the SL amount.

7. Trail immediately til Breakeven + Lock in Pips.

ab ts7

7. Immediately til Breakeven + Lockin

Begins moving trailing stop pip for pip as soon as the trade is in profit (by at least 1 pip). This function is used in conjunction with a stop loss. The position will trail by the SL amount.

When in profit by at least the Lockin Pips amount you are at least guaranteed a profit equal to your pip value.

Take Profit Method

There are two choices. 1. "Use ATR" will calculate the "average trading range" in pips of the counter trend timeframe found. 2. "Use Inputs" will use the default pips for each timeframe set (see TP inputs).

Default setting is 2. This can be changed to 1 or 2.

ab tp1	1. Use ATR
ab tp2	2. Use Inputs
123 TPMethod	2

ATR Inputs

TP ATR Period is commonly used for this indicator. Default setting is 14. If used it means the indicator look back period is 14 bars.

123 TPAttrPeriod	14
1/2 TPAttrPercentage	0.9

TP ATR Percentage means it will take the "ATR" value in pips and multiply that by this percentage. Default setting is 0.9.

Example: The ATR for the 4Hr TF is 30 pips therefore the result of using this input is a 27 pip amount take profit.

Take Profit Inputs

This is what determines what pip amount the EA will take when the internal take profit target is hit. These pip values are already entered for your convenience as a default. However, any or all of these pip TP values can be customized to your personal preference. Set 1, Set 2 and Hedge take profits can be adjust separately.

123	TakeProfitW1_Set1	100
123	TakeProfitD1_Set1	60
123	TakeProfitH4_Set1	30
123	TakeProfitH1_Set1	25
123	TakeProfitM30_Set1	20
123	TakeProfitM15_Set1	15
123	TakeProfitM5_Set1	5
123	TakeProfitW1_Set2	100
123	TakeProfitD1_Set2	60
123	TakeProfitH4_Set2	30
123	TakeProfitH1_Set2	25
123	TakeProfitM30_Set2	20
123	TakeProfitM15_Set2	15
123	TakeProfitM5_Set2	5
123	HedgeTakeProfit	20

Safety Take Profit Multiplier

123	SafetyTakeProfitMultiplier	1.5
-----	----------------------------	-----

Default setting is 1.5. This input will be multiplied by the internal take profit value and the result will be sent to the broker. This function is to make sure that the broker has your order on his server in case of a power failure. Keep in mind that the internal TP is hidden from the broker to safeguard against any TP pip hunting.

Step To Move Take Profit

Default setting is 20. This is use to tell the TP set how many pips to lead the current market. This function has

ab	ts6	Step to move Take Profit
123	TP_Step	20

nothing to do with taking profit in the conventional sense. This function is to determine how many pips plus the current market price should be sent to the broker as an external value. This is used as a safety in case of a power failure. Otherwise all other TP settings are internal and cannot be seen or manipulated by the broker.

Stop Loss Method

Default setting is 2. There are two choices for this function. 1. "Use ATR" will calculate the "average trading range" in pips of the counter trend timeframe found. 2. "Use Input" will use the "stop loss" amount entered as a pip amount for your stop.

ab	sl0	--StopLoss Method--
ab	sl1	1. Use ATR
ab	sl2	2. Use Input
123	SLMethod	2

ATR Inputs

SL ATR Period is used for this indicator. Default setting is 14. If used it means the indicator look back period is 14 bars.

SL ATR Percentage means it will take the "ATR" value in pips and multiply that by this percentage. Default setting is 0.9.

Example: The ATR for the 4Hr TF is 30 pips therefore the result of using this input is a 27 pip amount stop loss.

ATR inputs	
SLAtrPeriod	14
SLAtrPercentage	0.9

Stop Loss

Default setting is 0. This is where you input your stop loss pip amount. This figure will be used no matter what TF was found and entered on.

mStopLoss_Set1	0
mStopLoss_Set2	0
mHedgeStopLoss	0

Safety Stop Loss Multiplier

SafetyStopLossMultiplier 1.5

Default setting is 1.5. This input will be multiplied by the internal SL value and the result will be sent to the broker. This function is to make sure that the broker has your order on his server in case of a power failure. Keep in mind that the internal SL is hidden from the broker to safeguard against any SL pip hunting.

Money Management

Lots

Lots 0.1

This is to input how many lots you are wanting to trade. Standard lots are inputted as 1 2 3 4 etc. Mini lots are inputted like .1 .2 .3 .4. Micro lots are inputted .01 .02 .03 .04

Use Money Management

UseMoneyManagement true

Default setting is true. The EA uses a money management routine to increase/decrease the lots size based on various factors (to be discussed later).

Broker Is IBFX  BrokerIsIBFX false

Default setting is false. If you currently have your account set-up with IBFX you will need to set this switch to true. IBFX uses a different way to communicate an order size that is not conventional. All their order types are multiplied by base 10. Therefore a .1 mini lot is treated as a 1 lot and so on. Just input the lot size that is generally accepted and let the EA calculate the conversion automatically.

Broker Is Crown Forex  BrokerIsCrownForex false

Default setting is false. If you currently have your account set-up with Crown Forex you will need to set this switch to true. Crown Forex uses a different way to communicate an order size that is not conventional. All their orders are sized in base currency, not lots. Just input the lot size that is generally accepted and let the EA calculate the conversion automatically.

Account is Mini  AccountIsMini true

Default setting is true. This is pretty much self explanatory.

Account is Micro  AccountIsMicro false

Default setting is false. This is pretty much self explanatory.

Note: Please set both accounts to false if you are using a standard account size.

Trade Size Percent  TradeSizePercent 1.0

This is the percentage that is used to calculate the size of the lots to be traded when using money management.

Broker Permits Fractional Lots  BrokerPermitsFractionalLots true

Default setting is true. This setting determines if the lot size entered or computed (using MM) end up as a mixed fraction should be sent as is to the broker. If set to false the EA will always round down.

Large Spread Filter

Default setting is true. This function is very useful to safeguard against any bad entries right before a major news release. Many times the spread will widen by the broker in an effort to give you a bad fill to help thwart traders that take advantage of "news trading". When this filter is set to true it will not execute a trade when the spread is larger than Max Spread value (default setting is 8).

 UseSpreadDetection	true
 MaxSpread	8

Close Trades at End Of Month

 UseEndOfMonthClose	0
--	---

Default setting is 0 (false). UseEndOfMonthClose set to 1 (true) will close any open trades for the currency pair at the first open tick of the new month

No New Trades Before End Of Month

Default setting is 0 (false). UseEOM_NoTradesDays set to 1 (true) will not allow new trades to be opened 5 days (user adjustable) before end of the month.

 UseEOM_NoTradeDays	0
 EOM_NoTradeDays	5

Close trades on Friday

Default setting is 0 (false). UseFridayClose set to 1 (true) will close any open trades for the currency pair at the FridayCloseHour (default 21).

 UseFridayClose	0
 FridayCloseHour	21

Stop trading on Friday

Default setting is 0 (false). UseFridayNoTradeTime set to 1 (true) will not allow trades to be opened after the FridayFinalHour (default 20).

 UseFridayNoTradeTime	0
 FridayFinalHour	20

Trading Hours

 UseTradingHours	0
---	---

Default setting is 0 (false). This can be change to 1 (true) which will activate all subsequent trading hours to be in effect.

Use DST  UseDST true

Default setting is true. This stands for "daylight savings time". Set it to true if you are in an area of the world that uses DST.

Below settings tells the EA when to allow taking new trades only. All times are BROKERS SERVERS TIMES in military time.

Trade Asian Market

Default setting is 1 (true).
Asian Start - default setting is 100.
Asian Stop - default setting is 400.

123	TradeAsianMarket	1
123	myAsianStart	100
123	myAsianStop	400

Trade European Market

Default setting is 1 (true).
European Start - default setting is 1000.
European Stop - default setting is 1200.

123	TradeEuropeanMarket	1
123	myEurStart	1000
123	myEurStop	1200

Trade New York Market

Default setting is 1 (true).
New York Start - default setting is 1600.
New York Stop - default setting is 1500.

123	TradeNewYorkMarket	1
123	myNYStart	1600
123	myNYStop	1800

Text Object Settings

Status Text Size - default setting is 10. This is user definable
Status Color - default setting is white. This is user definable

123	StatusTxtSize	10
	StatusColor	<input type="checkbox"/> White

Note: The other labels in the program work the same way and to preserve space I will stop here.

Debug  Debug false

Default setting is false. Debug is the Master Switch to allow the files to be created.

Debug Expert  Debug_Expert | false

Default setting is false. Be careful with this one, especially on backtest. It will create very large files because the comments are all written to the log file on every tick. This creates a log to determine if EA is trading correctly.

Debug Live Trade  Debug_LiveTrade | false

Default setting is false. Change to true to allow debug trade log file to be created. The file will appear in the Experts/Files directory with the currency pair as part of the file name. This file should be used during forward testing because the file is open and closed on every write. The above files will be written to this log file "MTF HAS Trade Log".

Debug Back Test Trade  Debug_BackTestTrade | false

Default setting is false. The file will appear in the Tester/Files directory with the currency pair as part of the file name. This file should be used during back testing because the file is open and closed on every write. The above files will be written to this log file "MTF HAS BT Trade Log".