

Programming language: MQL4

Development platform: MetaTrader 4

End product: Expert Advisor (EA) for MetaTrader 4 designed for Build 900+ (current version+)

## 1/ CCI Trader

### **Inputs - Variables you can change without additional programming:**

TimeFrame = Timeframe at which the EA will take trade signals. (this allows chart timeframe to be altered without affecting EA. Please provide time format required or preferably dropdown options)

CCILong = equals value above which long trades can be taken.

CCIShort = equals value below which short trades can be taken.

Use MA entry (True, False)

Hedging Allowed (True, False)

FastMA, FastMAMethod, FastMAApplied

SlowMA, SlowMAMethod, SlowMAApplied

Checkspread<Spreadmax

RiskType (equity, Margin, Fixed) = Lots calculation type.

RiskPercent1, StopMult1

RiskPercent2, StopMult2

RiskPercent3, StopMult3

ATRperiod

MaxScaledTrades = Maximum number of scaled in trades allowed per original entry (0=original entry only)

ScaleMulti = Multiples of ATR at which to scale into trade

StopMulti = Multiple of ATR at which to position Stop Loss

BreakEvenMulti = Multiple of ATR at which to bring StopLoss to Break Even

TrailAmountMult = Multiple of ATR at which the Stoploss is trailed

TrailstepPips = The number of pips price moves before StopLoss is repositioned.

LongFastExitMA, LongFastExitMAMethod, LongFastExitMAApplied

LongSlowExitMA, LongSlowExitMAMethod, LongSlowExitMAApplied

ShortFastExitMA, ShortFastExitMAMethod, ShortFastExitMAApplied

ShortSlowExitMA, ShortSlowExitMAMethod, ShortSlowExitMAApplied

Trading days/times

Monday (True, False) TradingTimes (time1-time2)

Tuesday (True, False) TradingTimes (time1-time2)

Wednesday (True, False) TradingTimes (time1-time2)

Thursday (True, False) TradingTimes (time1-time2)

Friday (True, False) TradingTimes (time1-time2)

### **Entry rules:**

Go long when:

Trading days/times are positive.

Closed bar within given *Timeframe* gives CCI value above *CCILong* value.

*Checkspread*<*Spreadmax*

If *UseMAEntry* is set to true:- *FastMA* value is greater than *SlowMA* value.

If *UseMAEntry* is set to False:- Ignore MA values.

If *Hedging Allowed* is set to False:- No Short trades are open on the current symbol

If *Hedging Allowed* is set to True:- Ignore other trades on same signal

Go short when:

Trading days/times are positive.

Closed bar within given *Timeframe* gives CCI value below *CCILong* value.

*Checkspread*<*Spreadmax*

If *UseMAEntry* is set to true:- *FastMA* value is less than *SlowMA* value.

If *UseMAEntry* is set to False:- Ignore MA values.

If *Hedging Allowed* is set to False:- No long trades are open on the current symbol

If *Hedging Allowed* is set to True:- Ignore other trades on same signal

In the case of both long and short entries add to trade at every *ScaleMulti* \* ATR pip increment after the first trade is placed. (That is place additional trades in the same direction, up to *MaxScaledTrades* number of additional trades. Use *RiskPercent2* and *StopMulti2* for the second trade (first scaled in trade) followed by *RiskPercent3* and *StopMulti3* for the third and all subsequent trade entries. All trades after Trade 1 to continue to enter regardless of i/ trade 1 being stopped out, ii/ any entry conditions applied to trade 1 being negative. Trade entries to continue being made until the Exit conditions are reached.

Any trades entered prior to Trading days/times becoming negative are to be allowed to continue until Exit conditions are reached.

### **Lot Sizing:**

Lot sizes will be equal to *RiskType* figure \* *RiskPercent* / pip value in account currency / *StopLoss*

First Trade will use *RiskPercent1* and *StopMult1*. The 2<sup>nd</sup> opened (scaled in) trade will use *RiskPercent2* and *StopMult2*. Then any additional scaled trades after that will use *RiskPercent3* and *StopMult3*.

### **Exit Rules:**

Initial fixed stop loss set at ATR of period \* *StopMult*

Move the stop to breakeven after any trade is in profit by *BreakEvenMult* \* ATR

After the trade moved its stop to break even, trail the trade by *TrailAmountMult* \* ATR in increments of *TrailstepPips*

Exit Long when *LongFastexitMA* crosses down *LongSlowExitMA* and exit short when *ShortFastExitMA* crosses up *ShortSlowexitMA*

All unopened trade orders initiated by Trade 1 to be deleted upon *Exit MA* cross.

### **Screen Plotting:**

Plot all trades.

I would like to add some details to the chart. I do not know whether this is possible to be built into the EA. It would be nice to have the Bid, Ask and Spread values displayed along with the (negative ?) pip distance to the Stop Loss and the (positive ?) profit pip distance. A time display and whether trading is allowed or not would be good too as this will provide a visual check of real time against chart time.

### **Notes:**

It may be easier to produce two separate EA's. One for trading long and one for short. This will remove the Hedging and separate long/short exit method issues as well as separating all the other long vs short provisions.