

MQL4 / MQL5 FUNCTIONS CHEAT SHEET

OFFICIAL TRADER DESK COPY

EVENT HANDLERS & LIFECYCLE

OnInit()int OnInit()

• Called once when EA is loaded on chart. Initialize buffers & licenses.

OnTick()void OnTick()

• Executed on every incoming price tick. Core trading logic entry point.

OnDeinit()void OnDeinit(const int reason)

• Called when EA is removed from chart. Clean up graphics & handles.

OnTimer()void OnTimer()

• Event triggered at regular intervals configured by EventSetTimer().

MQL4 vs MQL5 ORDER MANAGEMENT EQUIVALENTS

Order SendMQL4: OrderSend(sym, cmd, lot, price, slip, sl, tp...)
MQL5: CTrade trade; tra

• MQL5 uses asynchronous TradeRequest structures or CTrade wrapper class.

Order SelectionMQL4: OrderSelect(i, SELECT_BY_POS, MODE_TRADES)
MQL5: PositionGetTicket(i) /

• MQL5 separates open Positions, pending Orders, and historical Deals.

Account EquityMQL4: AccountEquity() | AccountBalance()
MQL5: AccountInfoDouble(ACCOUNT_EQUIT

• MQL5 uses unified typed info accessors (AccountInfoDouble/Integer/String).

Symbol QuotesMQL4: Bid / Ask / Point / Digits
MQL5: SymbolInfoTick(_Symbol, tick) -> tick.b

• MQL5 requires MqlTick structure query for accurate multicurrency ticks.

TECHNICAL INDICATOR HANDLES (MQL5)

iMA (Moving Avg)int h = iMA(_Symbol, _Period, 20, 0, MODE_EMA, PRICE_CLOSE);

• Returns handle. Must use CopyBuffer(h, 0, 0, 3, buf) to read values.

iRSI (Relative Strength)int h = iRSI(_Symbol, _Period, 14, PRICE_CLOSE);

• Calculate overbought (>70) and oversold (<30) thresholds.

iATR (Volatility)int h = iATR(_Symbol, _Period, 14);

• Used for dynamic stop loss sizing: SL = Ask - (ATR * 1.5).

iBands (Bollinger)int h = iBands(_Symbol, _Period, 20, 0, 2.0, PRICE_CLOSE);

• Buffer 0 = Middle, Buffer 1 = Upper Band, Buffer 2 = Lower Band.