

# RiskManager Trading Workspace

*User Manual — RiskManager EA · Executive Hub · AI Mentor*

MetaTrader 4 · RiskManager EA v70 · Executive Hub v1.00

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August 2026

## 1. Overview

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RiskManager is a trading workspace for MetaTrader 4 built around one idea: the trader makes every trading decision, and the software's only job is to enforce execution discipline and protect the account. It does not predict the market and does not generate signals.

The workspace has three parts that work together on the chart:

- RiskManager EA (v70) — position sizing, risk limits, drawdown protection, and behavioral enforcement. Installed as an Expert Advisor.
- Executive Hub (v1.00) — a companion analysis toolkit for drawing, labeling, and key-level tools. Installed as an Indicator, sitting on the chart next to the EA.
- AI Mentor — a behavioral coaching layer built on the trade journal, running both as a daily interactive chat and a nightly automated report.

Two design rules run through everything: reducing risk is always one click; increasing risk requires going into settings. That asymmetry is deliberate.

## 2. Installation & Setup

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RiskManager EA: copy the .mq4 file into MQL4/Experts and its supporting .mqh modules (RM\_Config, RM\_RiskCalc, RM\_CooldownEngine, RM\_DrawdownEngine, RM\_TradeExecution, RM\_Trailing, RM\_AutoActions, RM\_Dashboard, RM\_Reports, RM\_Snapshot, RM\_Tools, RM\_Common) into MQL4/Include. Attach it to your chart as an Expert Advisor, with AutoTrading enabled.

Executive Hub: copy its .mq4 file into MQL4/Indicators (it runs as an indicator, not an EA) and attach it to the same chart. It builds its own panel and does not depend on the EA being present, though the two are designed to sit side by side. Three standalone MTF indicators (Ichimoku, MACD, RSI) are intentionally kept outside the Hub, since MT4 caps any single indicator at 8 buffers and the Hub's own EMA Overlay already uses 7.

Before your first live trade, review the EA's input groups — risk percentages, drawdown limits, cooldown thresholds — and set them to match your own risk tolerance. The defaults are a starting point, not a recommendation; several risk inputs also carry a hard ceiling that auto-clamps an unreasonable value and raises an alert rather than accepting it silently.

Recompile hygiene for every new version: delete the old EA and include files first, copy in the replacements, recompile, then remove and re-attach the EA to the chart. Skipping this sequence is the most common cause of a version behaving like the old one.

### 3. Risk Management Engine

Position sizing is calculated from your stop-loss distance and risk percentage — you decide where the stop belongs, and the EA works out the lot size that keeps that trade's risk at exactly your configured percentage. Full Risk mode uses RiskPerTrade directly; Half Risk mode halves it with one click.

Open Risk (MaxTotalRisk) blocks new entries once combined floating risk exceeds its ceiling. Daily, Weekly, and Monthly Net Loss limits each apply a time-based trading lock once realized losses over that period cross their threshold — the Daily lock alone runs 8 hours by default, tuned to clear the next session without taking a full day off. Floating Drawdown Protection sits above all of this: if unrealized loss on open positions crosses its threshold, the EA closes every position immediately, no confirmation required.

Every risk-related input also has a hard ceiling defined independently of the input itself (for example RiskPerTrade can never effectively exceed 3%, MaxTotalRisk never 10%). If a configured value exceeds its ceiling, the EA uses the clamped value and raises an alert rather than trading on the unsafe number.

### 4. Trade Execution & Management

Two entry modes: Market (executes immediately) and Pending (places a limit or stop order). Workflow is the same either way — pick a mode, click the chart to set your stop-loss, let the EA calculate the take-profit from the current RR setting, then execute. The RR button cycles 1 through 5 with each click.

Break Even can run in two modes: Individual (each position moves to its own entry, the default) or Basket Average (every same-direction position under this Magic Number and symbol moves together to one shared weighted breakeven price). Half Close closes 50% of a position; at or beyond +1R, the remainder is exempt from Behavior Cooldown tracking.

Bulk Close closes everything at once. Auto Trailing, once toggled on (manually, or automatically at a configured trigger RR), trails the stop using either candle structure or a chosen EMA. Auto Half Close is a parallel automation: at a configured trigger RR, a configured percentage of the position closes on its own, using the same underlying mechanism as the manual Half Close button.

### 5. Behavior Management

#### Cooldowns & Protections

Independent systems track discipline over time and correct silent risk creep:

| Rule                    | Trigger                                                                     | Consequence                                                        |
|-------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|
| Market Cooldown         | 4 consecutive stop-loss closes (streak resets after 3h since the last SL)   | 2-hour trading lock                                                |
| Behavior Cooldown       | 4 strikes from: Early Exit, Management Before Reward 1, or Stop-Loss Change | 1-hour trading lock                                                |
| Entry Interval          | A trade activates within 5 minutes of the previous one                      | Behavior strike                                                    |
| SL Tampering Protection | Stop-loss widened beyond 2x the original risk distance                      | Auto-corrected back; small (<10%) adjustments are ignored as noise |
| Half Close @ TP1+       | Half Close executed at or beyond +1R                                        | Remaining position exempt from Behavior Cooldown                   |

Taking a stop-loss is treated as correct behavior — it resets the Behavior counter rather than adding to it. Behavior Cooldown itself triggers from three specific events: an early exit, closing management before the trade reaches +1R, or changing the stop-loss mid-trade.

### Trade Tagging & Mental State

Every trade can be tagged with a Strategy/Setup pair from an editable list (seeded with BTB: A/B/C/+A/+B/+C and LP: Breakout/Discount), and separately with one of six mental-state labels: Calm, Rushed, Stressed, Tired, Revenge, or Overconfident. The tagging window stays open after each tag so both can be set without reopening it, and reopening it on an already-tagged trade highlights what was chosen before.

## 6. Trading Workspace Tools

The EA's dashboard splits into a Trading tab (everything in sections 3–5 above) and a Utility tab, which holds a row of supporting tools: a Candle Timer, a Break-Even reference line, one-click Daily/Weekly/Monthly High-Low levels, Entry/Exit chart Markers, a Hide-Objects toggle, a Risk/Reward measuring tool, a Measure-Move tool, Session-Level tagging (Tokyo/London/New York/out-of-session), and a Key Time marker.

## 7. Trade Journal, Reports & Automation

Every closed trade writes itself to a CSV journal automatically — AutoExportOnClose fires right after each close, and the manual Export CSV button rebuilds the same file on demand. Each row carries far more than basic entry/exit data:

| Category                    | Fields                                                                                                                                                                     |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Execution                   | Ticket, Symbol, Direction, Open/Close time, Lots, Entry, SL, Close price                                                                                                   |
| Risk & outcome              | RiskUSD, RiskPct, TradeR, WasHalfRisk, Result (SL / TP / EarlyExit / EmergencyClose), ProfitUSD                                                                            |
| Tagging & context           | Strategy, Setup, MentalState, Session (Tokyo/London/NewYork/out-of-session), Screenshot filename                                                                           |
| Behavioral snapshot at open | BehaviorErrorCountAtOpen, OpenedDuringCooldownLock, EntryIntervalViolation, SLTamperedFlag, DailyRiskUsedPctAtOpen, WeeklyDDUsedPctAtOpen, PriorDayResult, TimeframeAtOpen |
| Trade-level behavior        | SLLoosenedCount, BehaviorErrorsThisTrade                                                                                                                                   |
| Favorable excursion         | MaxFavR (best R reached), MinFavR (worst R reached before recovery)                                                                                                        |

The Utility tab's Reports drawer also shows Daily, Weekly, and Monthly performance tabs directly on the dashboard, read live from trade history, for a quick check without opening the CSV at all.

A nightly automation job (scheduled for 20:00) reads the day's CSV and does three things: syncs new trades into a Notion database, rebuilds an Excel dashboard (trade log, color-coded trade view, and a KPI/equity-curve/streak-analysis sheet), and rebuilds an HTML dashboard — no manual refresh required.

## 8. Executive Hub — Analysis Toolkit

The Hub organizes its tools under three master buttons — Draw, Label, and Indicator — each expandable independently and all collapsible into one minimized panel styled to match the EA:

| Category  | Tools                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Draw      | Shade 1-4 (filled zones, 4 preset colors), Rectangle 1-2 (hollow), Path, Line — one click hides everything drawn on the chart                                                       |
| Label     | LEG 1/2/3, TR, SP, CH, FVG, POI, CHOC, SWEEP, MEASURE, LIQUIDITY, BREAKOUT, BREAKDOWN, GOLDEN ZONE, NY-EDGE — 16 one-click chart labels                                             |
| Indicator | Point of Control (POC), Weekly Map, Session Opening Box (Tokyo/London/New York), MTF Candle Preview, EMA Overlay — master toggle plus 4 individually switchable EMAs (10/20/60/240) |

One click on the Draw master hides every drawing on the chart at once — the feature this whole part of the project grew out of, born from constantly forgetting which of several open charts still had old drawings on it.

## 9. AI Mentor System

The Mentor works in two modes, both grounded in the trader's own written rules and trade history rather than generic advice.

### Daily Interactive Mentor

A live chat the trader can open at any time. It reads the trading rulebook and prior mentor notes from Notion, discusses whether a setup is valid, and after each trade records a MentorScore from 1 to 10 directly in the trade log — built from four equally weighted criteria: setup match, clean management, correct timing, and overall discipline.

### Nightly Mentor Report

Once a day, the Mentor reads the trade log, the rulebook, and the day's notes, and produces a short written summary — performance, streaks, and any behavioral pattern worth flagging, with a weekly recap on Mondays. Currently run manually each evening; full automation is planned once the underlying API access is in place.

## 10. Default Settings Reference

Core input defaults as shipped in v70, grouped by system. Every risk-related input listed here is also backed by a hard ceiling (see Section 3) that the EA enforces even if the raw input is set higher.

| Setting                                    | Default   | Notes                                                                                            |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|
| RiskPerTrade                               | 0.25%     | Hard ceiling 3% — auto-clamped with an alert if exceeded; halved automatically in Half Risk mode |
| MaxTotalRisk                               | 5.0%      | Hard ceiling 10%                                                                                 |
| MaxDailyNetLossAllowed / DailyDDLlockHours | 3.0% / 8h | Hard ceiling 6%; lock duration tuned to clear the next trading day without a full day off        |

| Setting                                   | Default             | Notes                                                                                            |
|-------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------|
| MaxWeeklyNetLossAllowed / WeeklyDDHours   | 8.0% / 48h          | Hard ceiling 16%                                                                                 |
| MaxMonthlyNetLossAllowed / MonthlyDDDAYS  | 10.0% / 7d          | Hard ceiling 20%                                                                                 |
| InpMaxFloatingDDPercent                   | 2.0%                | Emergency close-all threshold on unrealized loss                                                 |
| RiskReward                                | 3.0                 | Starting point for the RR cycle button (range 1–5)                                               |
| MagicNumber                               | 12345               | Never change once trades exist                                                                   |
| BreakEvenMode                             | Individual          | Basket Average mode moves every same-direction position to one shared weighted breakeven instead |
| AutoBE / BEatR / BEextra                  | off / 2.0R / 2 pips | Automatic break-even trigger and entry offset                                                    |
| MarketCDCCount / Hours / ResetHours       | 4 / 2h / 3h         | Consecutive-stop threshold, lock duration, streak-reset window                                   |
| BehaviorCDCCount / Hours                  | 4 / 1h              | Strike threshold and lock duration                                                               |
| MinEntryIntervalMinutes                   | 5                   | Minimum minutes required between trade activations                                               |
| MaxSLWidenMultiplier                      | 2.0x                | Ceiling on stop-loss widening before auto-correction                                             |
| EnableAutoTrailing / TriggerRR / Mode     | off / 3.0R / Candle | Candle mode trails by structure; EMA mode trails an EMA (default period 70)                      |
| EnableAutoHalfClose / TriggerRR / Percent | off / 3.0R / 50%    | Automatic partial close at a target RR                                                           |
| AutoExportOnClose                         | true                | Writes the CSV journal automatically after every trade closes                                    |

## 11. Known Limitations

- MT4 only — not compatible with MT5 without a separate port
- Single symbol per chart instance
- Only Tokyo's Session Opening Box is currently backtested/enabled by default; London and New York boxes exist in the Hub but are off by default
- Pending-order tracking for the Entry Interval rule is in-memory and doesn't survive an EA restart
- Only trades placed through the EA's own execution flow are tracked — manually placed orders are not

## 12. Version & Support

This manual reflects RiskManager EA v70 and Executive Hub v1.00, with zero open bugs at time of writing. The project's canonical documentation lives in Notion; if something here doesn't match what you see on your chart, the Notion project page is the source of truth.

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