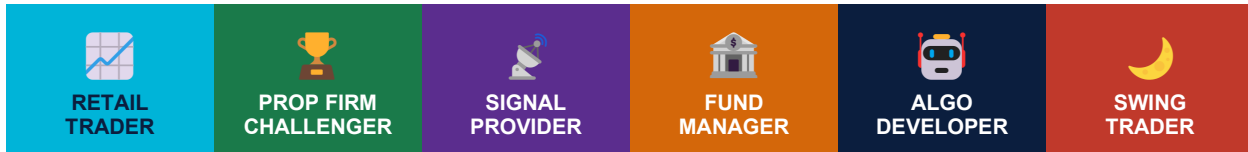


SmartifyTrade.Com EA

Trader Problem & Solution Guide

Real Trading Problems. Real Solutions. Configured for Each Trader Type.









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How to Use This Guide

This guide is organized by trader type. Each section describes the most common real-world problems that type of trader faces — and shows exactly how SmartifyTrade EA v6.0 solves each one, with the specific EA inputs to configure.

You don't need to read the whole guide — jump directly to your trader type. If you fit more than one category, read multiple sections.

	Trader Type	Go-To Section
	Retail / Day Trader	Section 1 — Overtrading, missed signals, wrong lot sizes, market hours
	Prop Firm Challenger	Section 2 — DD breaches, consistency rule, min duration, news violations
	Signal Provider / Copy Trader	Section 3 — Latency, follower lot sync, cross-machine setup, multi-account
	Fund Manager / MAM	Section 4 — Client allocation, drawdown per client, regulatory exposure
	Algo Developer / Quant	Section 5 — Backtesting discrepancy, execution gaps, signal dedup, JSON errors
	Swing / Position Trader	Section 6 — Weekend gaps, swap charges, VPS restarts, long-hold management

Section 1 — Retail / Day Trader



Retail / Day Trader

Trading XAUUSD, forex, or indices from TradingView strategies. Main concerns: execution speed, risk control, not blowing the account.

01

⚠ Problem: Signal fires but no trade opens

TradingView alert sent, but nothing shows in MT5. Trader doesn't realize signals are being missed — no feedback, no error visible.

✅ SmartifyTrade EA Solution:

EA logs every signal with full detail to the Experts tab AND Activity Log CSV. Check MT5 Experts tab: look for [PULL] or [EXEC] entries. If missing, verify WebRequest is allowed and InpLicenseID is correctly set. EA also shows 'Last Signal' sticky in the panel — if panel shows the signal but trade didn't open, check guard reasons (HOLD_ACTIVE, SPREAD_TOO_WIDE etc.).

Relevant Inputs: `InpLicenseID`, `InpShowPanel=true`, `InpEnableSpreadGuard`

02

⚠ Problem: Trades open during bad times — news spikes, low liquidity

Strategy fires at 14:30 during NFP release. Spread is 80 points. Trade opens with massive slippage and immediately hits SL.

✅ SmartifyTrade EA Solution:

News Blackout blocks entries during high-impact events. Configure up to 3 manual news times, or use AUTO_FF mode to automatically fetch ForexFactory HIGH-impact events weekly. Spread Guard blocks entries when live spread exceeds your threshold — essential for XAUUSD around news. Slippage Monitor tracks every fill vs expected price and alerts via Telegram.

Relevant Inputs: `InpEnableNewsBlackout`, `InpNewsSource=AUTO_FF`, `InpEnableSpreadGuard`, `InpMaxSpreadPoints=50`, `InpEnableSlippageMonitor`

03

⚠ Problem: After 3 losses in a row, keeps trading and digs deeper hole

Strategy hits a losing streak. Trader set up 0.10 lots but EA keeps firing at full size. Account balance drops 15% in 2 hours.

✅ SmartifyTrade EA Solution:

Consecutive Hold automatically pauses new entries after X consecutive losses. After 3 losses (configurable), EA waits for `InpHoldMinutes` before allowing new entries. Telegram sends an immediate alert. Lot Step-Down reduces lot size for subsequent trades. Streak Lot Sizing (Anti-Martingale mode: `LossStreakMult < 1.0`) automatically reduces lots — e.g. 0.10 → 0.05 → 0.025 after each loss.

Relevant Inputs: `InpEnableConsecHold`, `InpMaxConsecLosses=3`, `InpHoldMinutes=60`, `InpEnableLotStepDown`, `InpLossStreakLotMult=0.5`

04

⚠ Problem: EA keeps trading even after hitting daily loss limit

Daily drawdown target of \$100 hit at 11am. EA continues executing signals for the rest of the day, adding to losses.

✅ SmartifyTrade EA Solution:

Daily Risk \$ Guard stops all new entries the moment the daily loss threshold is crossed, closes all positions, and optionally removes the EA from the chart (`InpRiskCloseAndStopEA`). Resets automatically at the start of each new trading day. Daily Loss % Guard provides a percentage-based alternative — useful when account balance varies.

Relevant Inputs: `InpEnableDailyRisk=true, InpDailyMaxLossMoney=100, InpRiskCloseAndStopEA=true`

05

⚠ Problem: Lot size too large for account — single trade wipes significant %

Trader copied a strategy designed for \$10,000 accounts onto a \$1,000 account. 0.10 lots on XAUUSD = \$1 per point, excessive for balance.

✔ SmartifyTrade EA Solution:

ATR Lot Sizing calculates position size automatically based on account risk. Set `InpATRRiskMoney=20` (risk \$20 per trade) — EA will calculate the correct lot size for current volatility regardless of what's in the signal. Alternatively use `InpDefaultLots` as a safe fallback and ensure signal lots are appropriate.

Relevant Inputs: `InpEnableATRLots=true, InpATRRiskMoney=20, InpATRPeriod=14, InpATRTimeframe=H1`

06

⚠ Problem: Rapid sequence of losses in 10 minutes wipes risk budget

Fast strategy fires 6 times in 10 minutes. All lose. \$300 gone before trader can react — even with a stop loss per trade.

✔ SmartifyTrade EA Solution:

Velocity Guard monitors total losses within a rolling time window. If \$100 is lost within 10 minutes, all new entries are blocked for 60 minutes and a Telegram alert fires immediately. This catches rapid multi-trade drawdowns that individual SL limits cannot prevent.

Relevant Inputs: `InpEnableVelocityGuard=true, InpVelocityWindowMin=10, InpVelocityMaxLoss=100, InpVelocityHoldMin=60`

07

⚠ Problem: Open positions during low-volume off-hours — wide spreads, poor fills

Strategy fires signals at 2am during Asia session when XAUUSD spreads are 60+ points. Fills are terrible and P&L is worse than backtest.

✔ SmartifyTrade EA Solution:

Session Lot Multiplier assigns different lot sizes per session. Set Asia session to 0.5x or 0.0 (block entirely). London and NY sessions at 1.0x or higher. Time Window can restrict trading to specific hours entirely. Both work together for precise session control.

Relevant Inputs: `InpEnableSessionMult=true, InpSessionAsiaMult=0.5, InpSessionOffMult=0.0, InpEnableTimeWindow`

💡 Pro Tip: New trader starting point: Enable `InpEnableDailyRisk` + `InpEnableSpreadGuard` + `InpEnableConsecHold` with conservative values. These three together form a basic 'kill switch' that prevents the most common retail account blow-up scenarios.

Recommended Setup — Retail / Day Trader

Input / Setting	Recommended Value & Reason
<code>InpEnableDailyRisk</code>	true — essential first line of defense
<code>InpDailyMaxLossMoney</code>	2–5% of account balance (e.g. \$50 on \$2,000 account)
<code>InpEnableSpreadGuard</code>	true — <code>InpMaxSpreadPoints=40</code> for XAUUSD
<code>InpEnableConsecHold</code>	true — <code>InpMaxConsecLosses=3, InpHoldMinutes=60</code>
<code>InpEnableVelocityGuard</code>	true — <code>InpVelocityMaxLoss = 2x</code> your per-trade SL

Input / Setting	Recommended Value & Reason
<code>InpTelegramEnabled</code>	true — get instant alerts on your phone
<code>InpEnableSlippageMonitor</code>	true — detect bad broker execution early
<code>InpSessionAsiaMult</code>	0.5 (reduce size in low-liquidity hours)

Section 2 — Prop Firm Challenger



Prop Firm Challenger

Running an FTMO, FundedNext, E8, or The5ers challenge. One wrong trade can cost \$200–\$500 in challenge fees and weeks of work.

01

⚠ Problem: Trailing drawdown breach — account banned overnight

Account equity dips during overnight swap charges or a sudden gap open. Trailing DD rule triggers at 5am while trader is sleeping. Challenge failed, \$300 fee wasted.

✅ SmartifyTrade EA Solution:

HWM-based Trailing Drawdown Guard monitors equity vs the all-time high water mark every timer tick (every second). The moment equity approaches the limit, all new entries are blocked. With `InpPropDDCloseAll=true`, all positions are closed before the limit is officially breached. Drawdown Recovery Mode automatically reduces lot sizes as you approach 50% and 75% of the limit, protecting the buffer zone.

Relevant Inputs: `InpEAMode=PROP, InpPropEnableTrailingDD=true, InpPropMaxTrailingDDPct=9.0 (FTMO), InpEnableDDRecovery=true`

02

⚠ Problem: Daily equity loss breach — 5am swap charge tips it over

Trader has \$480 in positions overnight. Nightly swap charges deduct \$25. At midnight, equity crosses the 5% daily loss limit. Account banned at 6am.

✅ SmartifyTrade EA Solution:

Equity Daily Loss Guard uses the exact prop firm formula: midnight balance minus current equity (including all floating P&L, swaps, commissions). This matches FTMO and FundedNext calculations exactly. Set `InpPropMaxEquityDailyLossPct=4.5%` (buffered 0.5% below the 5% rule) for safety. Weekly Close feature closes positions every Friday — eliminating the weekend gap risk entirely.

Relevant Inputs: `InpPropEnableEquityDailyLoss=true, InpPropMaxEquityDailyLossPct=4.5, InpPropEquityLossCloseAll=true`

03

⚠ Problem: Consistency rule violation — one big trade = 60% of all profit

Trader has \$500 net profit across 20 trades. One XAUUSD swing earns \$320 — that's 64% of total profit. FTMO flags the account for consistency violation.

✅ SmartifyTrade EA Solution:

Consistency Rule Guard checks before every new entry whether the current best open position's profit would exceed the configured % of total net profit. If it would, the entry is blocked. The panel shows a live consistency % reading so you can monitor it in real time during the challenge.

Relevant Inputs: `InpPropEnableConsistency=true, InpPropConsistencyMaxPct=45 (FTMO standard)`

04

⚠ Problem: Trade opened without SL — prop firm rule violation

Signal JSON sent from TradingView with `sl_money` accidentally set to 0. Trade opens with no stop loss. FTMO disqualifies accounts that have any no-SL trade.

✅ SmartifyTrade EA Solution:

Mandatory SL Guard rejects any BUY or SELL signal that arrives with `sl_money=0`. The signal is rejected with reason `MANDATORY_SL_MISSING` and logged to the Activity Log. An ACK is sent back to the server. No trade is opened. Simple, guaranteed protection.

Relevant Inputs: `InpPropEnableMandatorySL=true` — ensures 100% of trades have SL

05

⚠ Problem: Trade closed too quickly — min duration rule violation (FundedNext)

FundedNext requires trades to be open for at least 2 minutes. Strategy closes a winning trade after 45 seconds. Account gets flagged.

✅ SmartifyTrade EA Solution:

Min Trade Duration queues close/exit signals until the position has been open for the minimum required seconds. The queued close is retried every timer tick automatically — trader doesn't need to do anything. Position SL/TP remains active during the wait, so the trade is still protected.

Relevant Inputs: `InpPropEnableMinDuration=true, InpPropMinDurationSec=120` (2 minutes)

06

⚠ Problem: Hedging violation — two opposite positions on same symbol

Running XAUUSD on 5M and 1H timeframes. Both fire simultaneously — one is BUY, one is SELL. FTMO detects hedging and bans the account.

✅ SmartifyTrade EA Solution:

Anti-Hedge Guard automatically detects when a new signal would create an opposite position on the same symbol (across any EA stream, any magic number). In AUTO mode, it activates automatically when `InpEAMode=PROP`. The entry is blocked with reason ANTI_HEDGE_BLOCKED, logged, and Telegram alert sent.

Relevant Inputs: `InpAntiHedgeMode=AUTO` (activates automatically in PROP mode)

07

⚠ Problem: Challenge failed just before profit target — overtrading the last days

Trader has \$8,500 profit on a \$10,000 target challenge. Gets overconfident, fires 15 trades in 2 days trying to hit the target. Loses \$2,000 and fails.

✅ SmartifyTrade EA Solution:

Profit Target Auto-Stop halts all new entries the moment the daily or total profit target is reached. Challenge Tracker panel shows a live progress bar with exact % to target, daily DD used, trailing DD from HWM, and ON TRACK / CAUTION / RULE BREACH status — visible at a glance.

Relevant Inputs: `InpEnableProfitTarget=true, InpTotalProfitTargetMoney=9500` (buffered below \$10,000 target), `InpShowChallengeTracker=true`

08

⚠ Problem: No notification when prop limits are being approached

Trader is away from PC. Trailing DD is at 7.5% of 10% limit. No one knows. Next trade opens and breaches the limit.

✅ SmartifyTrade EA Solution:

Telegram Notifications send DD warnings at 50%, 75%, and 100% of the drawdown limit — directly to the trader's phone, 24/7. Message format shows exactly: DD=7.5% / Limit=9.0% | Account:279319074 so the trader knows immediately which account and how close to the edge.

Relevant Inputs: `InpTelegramEnabled=true, InpTgNotifyDD=true, InpTelegramBotToken, InpTelegramChatID`

💡 Pro Tip: Use a named profile (`InpPropProfile=FTMO / The5ers / FundedNext`) to automatically apply buffered default values. Then enable Challenge Tracker to see your progress in real time. Set Telegram notifications — never be caught off guard again.

Recommended Setup — Prop Firm Challenger

Input / Setting	Recommended Value & Reason
InpEAMode	PROP — activates all prop firm guards
InpPropProfile	FTMO / The5ers / FundedNext / E8Markets / AlphaCapital
InpPropEnableTrailingDD	true — non-negotiable for most prop firms
InpPropEnableEquityDailyLoss	true — exact prop firm formula, not approximation
InpPropEnableMandatorySL	true — rejects any no-SL signal automatically
InpPropEnableMinDuration	true if your firm requires it (FundedNext: 120s)
InpAntiHedgeMode	AUTO — auto-on in PROP mode
InpEnableDDRRecovery	true — reduce lots as you approach the DD limit
InpShowChallengeTracker	true — live progress bar in panel
InpTelegramEnabled	true — 24/7 alerts to your phone
InpTotalProfitTargetMoney	Set ~5% below your actual target as buffer

Section 3 — Signal Provider / Copy Trader



Signal Provider / Copy Trader

Broadcasting your trades to followers, or copying signals from a provider. Main challenges: latency, lot sync, multi-account management, trust.

01

⚠ Problem: Follower trades at different lot size than master — uneven risk

Provider trades 1.0 lot on XAUUSD. Followers with \$2,000 accounts try to copy at the same size. Followers blow accounts within days.

✅ SmartifyTrade EA Solution:

Signal Provider Mode gives each follower their own `InpSPLotMult`. Set 0.10 for a small account (10% of master size), 0.50 for a medium account, 2.0 for an investor who wants more exposure. Each follower account is completely independent — one follower's settings don't affect others.

Relevant Inputs: `InpSPMode=FOLLOWER`, `InpSPLotMult=0.10` (for small accounts), `InpSPSLOverride` for custom SL

02

⚠ Problem: Follower wants different SL/TP than master signal

Master trades with \$100 SL. Follower has a smaller account and needs \$40 SL max. No way to override per-follower.

✅ SmartifyTrade EA Solution:

Signal Provider Mode supports per-follower SL and TP override. Set `InpSPSLOverride=40` on the follower EA — it will use \$40 SL regardless of what the master broadcast. `InpSPTPOverride` works the same way. 0 = use master's value.

Relevant Inputs: `InpSPSLOverride=40`, `InpSPTPOverride=0` (use master's TP)

03

⚠ Problem: Copy trading only works on same machine — can't reach remote followers

Old Mirror Mode uses `GlobalVariables` — works only on same Windows machine. Can't copy to accounts on different VPS or different countries.

✅ SmartifyTrade EA Solution:

Signal Provider Mode broadcasts via SmartifyTrade Router Server. Master sends trades to the server. Followers anywhere in the world poll the server independently. No VPN, no network config needed — just a valid `LicenseID` and internet connection. Works across different brokers, countries, and time zones.

Relevant Inputs: `InpSPMode=MASTER` on master account, `InpSPMode=FOLLOWER` + `InpSPMasterLicenseID` on each follower

04

⚠ Problem: Hedge copy — follower account should trade opposite direction

Risk manager wants one account trading BUY while a follower hedge account trades SELL on the same signal. Currently impossible with basic copy tools.

✅ SmartifyTrade EA Solution:

Mirror Mode and Signal Provider Mode both support direction inversion. `InpSPInvertDir=true` on the follower makes every BUY from the master become a SELL on the follower — and vice versa. Perfect for hedge account management or arbitrage setups.

Relevant Inputs: `InpSPInvertDir=true` on follower EA

05

⚠ Problem: Follower misses fast signals — by the time copy arrives, price moved

Provider fires a scalp entry signal. By the time follower polls (every 5 seconds), price has moved 15 points against entry. Follower always gets worse fills.

✔ SmartifyTrade EA Solution:

EA polls every 1 second by default (InpPollSeconds=1). Signal Age Guard (InpEnableSignalAge=true) automatically rejects signals older than a threshold. If the signal is too stale, the follower skips it rather than entering at a worse price. Spread Guard also protects against bad fills.

Relevant Inputs: `InpPollSeconds=1, InpEnableSignalAge=true, InpMaxSignalAgeSec=30` for scalping

06

⚠ Problem: Provider wants to track how followers are performing

Signal provider has 15 followers. No visibility into whether followers successfully copied the trade, their P&L, or their lot scaling.

✔ SmartifyTrade EA Solution:

Signal Provider panel in the EA shows follower count (from server response) and last broadcast signal details. Each follower EA logs all executions to its Activity Log CSV and Trade Journal. Combine with Telegram notifications so each follower account notifies its own owner independently.

Relevant Inputs: `InpSPMode=MASTER` – panel shows Follower Count + Last Signal

💡 Pro Tip: Signal providers: Run your master account on a dedicated VPS with InpPollSeconds=1 for fastest signal delivery. Each follower sets their own InpSPLotMult based on their account size relative to yours. Standard formula: $\text{Follower_LotMult} = \text{Follower_Balance} / \text{Master_Balance}$.

Recommended Setup — Signal Provider (Master)

Input / Setting	Recommended Value & Reason
<code>InpSPMode</code>	MASTER — broadcast all executions to server
<code>InpPollSeconds</code>	1 — fastest signal delivery to followers
<code>InpEnableSpreadGuard</code>	true — master only enters at clean fills
<code>InpEnableNewsBlackout</code>	true — protect all followers from news events
<code>InpTelegramEnabled</code>	true — know immediately if any guard blocks a signal

Recommended Setup — Follower Account

Input / Setting	Recommended Value & Reason
<code>InpSPMode</code>	FOLLOWER
<code>InpSPMasterLicenseID</code>	Master's exact LicenseID
<code>InpSPLotMult</code>	Your balance / Master balance (e.g. 0.20 if you have 20% of master's size)
<code>InpSPSLOverride</code>	Set if your account needs a smaller SL than master (0=use master's SL)
<code>InpSPInvertDir</code>	true only for dedicated hedge accounts
<code>InpEnableSignalAge</code>	true, InpMaxSignalAgeSec=30 for scalp strategies
<code>InpEnableDailyRisk</code>	true — protect your own account even while copying

Section 4 — Fund Manager / MAM Operator



Fund Manager / MAM Operator

Managing multiple client accounts. Responsible for P&L, drawdown control, and regulatory compliance across all client portfolios simultaneously.

01

⚠ Problem: Different client accounts need different risk levels

Conservative client wants 0.5% risk per trade. Aggressive client wants 2% risk. Running the same EA setup across all accounts is impossible.

✅ SmartifyTrade EA Solution:

Each client account runs its own EA instance with its own `InpSPLotMult` (as follower) or its own `InpDefaultLots` and `ATR` risk settings. The master trades signals — followers scale proportionally. Conservative client: `InpSPLotMult=0.3`. Aggressive client: `InpSPLotMult=1.5`. Each is fully independent.

Relevant Inputs: `InpSPMode=FOLLOWER` per client, `InpSPLotMult` per client account, `InpEnableATRLots` for % risk

02

⚠ Problem: One client's drawdown breaches their individual limit

Client A is at -4.8% drawdown. EA keeps trading at full lot size. Client calls in panic. Position sizes should have been reduced progressively.

✅ SmartifyTrade EA Solution:

Drawdown Recovery Mode automatically reduces lot size as drawdown approaches the configured limit — at 50% of limit, reduce to 50% lots; at 75% of limit, reduce to 25% lots. Each client account's EA is configured independently. Combined with Telegram notifications, you know immediately when any client approaches their DD limit.

Relevant Inputs: `InpEnableDDRecovery=true`, `InpDDRecovery50Pct=0.5`, `InpDDRecovery75Pct=0.25` (per client EA)

03

⚠ Problem: Client correlated exposure — XAUUSD + NAS100 + US30 all long simultaneously

Fund has XAUUSD BUY, NAS100 BUY, and US30 BUY running at the same time. A Fed announcement moves all three against — combined drawdown is 3× expected.

✅ SmartifyTrade EA Solution:

Correlation Guard groups correlated symbols. Set XAUUSD,XAGUSD as metals group, NAS100,US30,SPX500 as indices group. Maximum 2 same-direction positions per group enforced automatically. This prevents the fund from being over-exposed to a single macro theme.

Relevant Inputs: `InpEnableCorrelationGuard=true`, `InpMaxCorrelatedPositions=2`, `InpCorrelationGroups=XAUUSD,XAGUSD|NAS100,US30,SPX500`

04

⚠ Problem: No visibility across all client accounts simultaneously

Fund manager runs 8 client accounts across different VPS. Checking status requires opening 8 MT5 terminals manually. A problem on account 3 goes unnoticed for hours.

✅ SmartifyTrade EA Solution:

Each client EA sends Telegram notifications to its own chat channel (or a shared group). The Activity Log provides a full audit trail for every account. For real-time monitoring: set each account's Telegram to send to a shared group — the fund manager sees all 8 accounts in one chat feed.

Relevant Inputs: `InpTelegramEnabled=true`, `InpTelegramChatID=shared_group_ID` per client EA

05

⚠ Problem: Emergency: need to close all positions across all clients immediately

Breaking news event. Need to close all positions on all 8 client accounts within 30 seconds. Current process: open each MT5, click close manually — takes 3 minutes.

✅ SmartifyTrade EA Solution:

PANIC button on each chart closes all positions instantly. For remote VPS accounts: set GlobalVariable SMARTIFY_PANIC_RESUME_<LicID>_<Acc>=1 via MT5 terminal remotely to trigger emergency close. If all accounts are set to InpCloseAllScope=1, the entire MT5 account closes — not just EA positions.

Relevant Inputs: `InpShowPanicButton=true` on every client account, `InpCloseAllScope=1` if needed

06

⚠ Problem: Audit trail — client disputes trade and requests full history

Client claims EA opened a trade without authorization. No record of what happened, when, or why. Legal exposure.

✅ SmartifyTrade EA Solution:

Activity Log CSV records every EA event: every signal received, every guard trigger, every trade opened/closed, every input change. Trade Journal CSV records every closed trade with entry, exit, P&L, and comment. Both are permanent records stored in MQL5/Files/ on the VPS.

Relevant Inputs: `InpEnableJournal=true` on every client account. Activity Log is always enabled.

💡 Pro Tip: Fund managers: configure each client EA instance identically except for `InpSPLotMult` and `InpDailyMaxLossMoney`. Use different `InpLicenseID` per client account. This gives you uniform signal execution with per-client risk control.

Recommended Setup — Fund Manager

Input / Setting	Recommended Value & Reason
<code>InpSPMode (master)</code>	MASTER on your primary trading account
<code>InpSPMode (client)</code>	FOLLOWER on each client account
<code>InpSPLotMult (client)</code>	Client balance / Master balance
<code>InpEnableDDRcovery</code>	true on every client account
<code>InpEnableCorrelationGuard</code>	true — prevent macro concentration
<code>InpEnableJournal</code>	true on every account — audit trail
<code>InpTelegramChatID</code>	One shared group — all client accounts notify there
<code>InpDailyMaxLossMoney</code>	Per-client risk limit in \$

Section 5 — Algo Developer / Quant



Algo Developer / Quant

Building and testing TradingView Pine Script strategies. Main challenge: making live execution match backtest behavior — and catching every edge case.

01

⚠ Problem: Live execution differs from backtest — phantom trades, duplicate opens

Strategy fires in backtest cleanly. Live: same signal executes twice, or previous position isn't closed before new one opens. Backtest and live are incompatible.

✅ SmartifyTrade EA Solution:

Signal deduplication: EA uses the id field (use `{{timenow}}`) and stores it for 30 days in GlobalVariables. Same id never executes twice. Atomic Flip: EA waits for close confirmation before opening the opposite direction — guaranteed clean reversal with zero gap. Signal Age Guard prevents stale signals from executing after reconnects.

Relevant Inputs: JSON: `id={{timenow}}`, `InpEnableSignalAge=true` for freshness guarantee

02

⚠ Problem: JSON syntax error crashes signal parsing — silent failure

Developer accidentally sends malformed JSON. EA silently ignores signal. No error visible in TradingView. Trade never executes. Developer assumes strategy didn't fire.

✅ SmartifyTrade EA Solution:

EA logs every received signal to the Experts tab with full parse result. ACK (acknowledgement) is sent back to server for every signal with status `MISSING_ID`, `MISSING_SYMBOL`, `PARSE_ERROR` etc. — visible in the server logs. Sticky Last Signal in panel shows last received signal and last rejection reason always. Activity Log records every event.

Relevant Inputs: `InpShowPanel=true` — see Last Signal + Last Rejected in panel constantly

03

⚠ Problem: Strategy uses Martingale lot sizing — need dynamic lots from Pine Script

Developer calculates lot size inside Pine Script based on equity, streak, ATR. Wants EA to use that calculated lot, not a fixed value.

✅ SmartifyTrade EA Solution:

Pass `{{strategy.order.contracts}}` as the lots field in signal JSON. EA receives the exact calculated lot size from TradingView. Alternatively, pass `{{strategy.position_size}}` and EA interprets sign: positive=BUY, negative=SELL, magnitude=lots. Both methods give full dynamic lot control from the strategy side.

Relevant Inputs: JSON: `lots={{strategy.order.contracts}}` OR `pos_size={{strategy.position_size}}`

04

⚠ Problem: Multiple timeframes fire simultaneously — which signal wins?

Running 5M and 1H strategy on XAUUSD. Both fire BUY at 9am. Two positions open when only one should be allowed.

✅ SmartifyTrade EA Solution:

Each `trade_id` (5M, 1H) is a completely isolated stream with its own state, SL/TP, and position. They are independent by design. Max Open Positions guard limits total EA positions. Anti-Hedge Guard prevents opposite positions across streams. To force only one position at a time across all streams, use `InpMaxOpenPositions=1`.

Relevant Inputs: `InpEnableMaxPositions=true`, `InpMaxOpenPositions=1` to limit total positions

05 ⚠ **Problem: Strategy fires between backtest bar boundaries — execution slippage unmeasurable**

Developer needs to know actual fill slippage vs expected price to validate live performance vs backtest.

✔ **SmartifyTrade EA Solution:**

Slippage Monitor records expected fill price (bid/ask at signal time) vs actual fill price for every trade, maintains per-symbol running average, and shows it in the panel. Export to CSV for statistical analysis. If average slippage exceeds threshold, Telegram alert fires and it shows in Experts log.

Relevant Inputs: `InpEnableSlippageMonitor=true, InpSlippageAlertPts=3`

06 ⚠ **Problem: Signal provider needs to test strategy on small lots before scaling**

Developer wants to run live but with 0.01 lots, verify fills and slippage, then scale to full size. Currently has to edit EA inputs manually.

✔ **SmartifyTrade EA Solution:**

Use `InpStreakLotFloor` and `InpStreakLotCap` together to hard-cap lot sizes during testing. Or use `InpLoadPreset=BEGINNER_SAFE` for conservative defaults. `InpSymbolLock=XAUUSD` ensures only the test symbol executes even if strategy fires others.

Relevant Inputs: `InpStreakLotCap=0.01` as hard cap during testing, `InpSymbolLock=XAUUSD`

07 ⚠ **Problem: Need a complete record of every live signal and execution for analysis**

Developer wants to compare backtest trades vs live execution. Needs: entry time, symbol, direction, lot, entry price, exit price, P&L per trade.

✔ **SmartifyTrade EA Solution:**

Trade Journal CSV captures every field: DateTime, Symbol, TradeID, Direction, Lots, Entry, Exit, PnL, Comment. Weekly Summary shows aggregate stats per stream (trade_id). Performance Analytics panel shows Win Rate, Profit Factor, RR Ratio, Expectancy live — same metrics as backtest reports.

Relevant Inputs: `InpEnableJournal=true, InpJournalWeeklySummary=true, InpShowPerformanceStats=true`

💡 **Pro Tip:** Developers: use `InpSymbolLock` during initial testing to prevent accidental multi-symbol execution. Always include `id={{timenow}}` in the JSON to prevent duplicate execution from TradingView alert retries.

Recommended Setup — Algo Developer / Quant

Input / Setting	Recommended Value & Reason
<code>JSON: id</code>	<code>{{timenow}}</code> — always, prevents duplicate execution
<code>JSON: lots</code>	<code>{{strategy.order.contracts}}</code> for dynamic lot sizing
<code>InpEnableSignalAge</code>	true, <code>InpMaxSignalAgeSec=30</code> — prevent stale signal execution
<code>InpEnableSlippageMonitor</code>	true — validate live vs backtest fills
<code>InpEnableJournal</code>	true — full trade-by-trade audit trail
<code>InpShowPerformanceStats</code>	true — live performance metrics in panel
<code>InpShowTimeHeatmap</code>	true — identify best/worst trading hours
<code>InpSymbolLock</code>	Set during testing, clear for production

Section 6 — Swing / Position Trader



Swing / Position Trader

Holding trades for days or weeks on 4H, Daily, or Weekly timeframes. Main concerns: weekend gaps, swap charges, VPS restarts losing state, long-hold management.

01 **⚠ Problem: Weekend gap wipes the position — SL not triggered during market close**

XAUUSD position held over Friday. Market closes at 22:00. Monday opens \$15 gap against position. SL was at \$8 from entry. Position opens already past SL — slippage is severe.

✔ SmartifyTrade EA Solution:

Weekly Close automatically closes the position every Friday at a configurable time (e.g. 20:00 broker time) — before the market closes. Monday: EA automatically reopens in the same direction when the market opens, after a configurable delay (default 30 minutes for price to stabilize). If `weekly_reopen=false` in signal, EA waits for the next fresh signal to reenter.

Relevant Inputs: JSON: `weekly_close=true, weekly_close_time=20:00, weekly_reopen=true, weekly_reopen_delay=1800`

02 **⚠ Problem: Swap charges accumulate and eat into swing trade profits**

XAUUSD long position held for 5 days. Total swap charges: -\$45. That's \$45 of profit eaten by broker rollover fees — never visible in backtest.

✔ SmartifyTrade EA Solution:

Daily Swap Protection closes the position before the nightly rollover (e.g. 1 hour before) and reopens after the market opens (e.g. 30 minutes after). No swap charged on a closed position. Position is reopened in the same direction automatically — seamless continuation of the trade. Combine with `weekly_close` for full weekend + nightly protection.

Relevant Inputs: JSON: `swap_close_before_sec=3600, swap_reopen_after_sec=1800`

03 **⚠ Problem: VPS restarts and EA loses all position state — rogue position risk**

VPS reboots at 3am during maintenance. MT5 restarts, EA reattaches. Doesn't know about the existing open position. Strategy fires opposite signal — now both open.

✔ SmartifyTrade EA Solution:

EA stores all critical state in MT5 GlobalVariables: High Water Mark, last deal ticket, consecutive counters, hold state, weekly close pending. On restart, it restores all state from GlobalVariables before processing any new signals. The EA reads existing open positions via `PositionsTotal()` — existing positions are never orphaned.

Relevant Inputs: `InpPersistSymStats=true` preserves stats across restarts. GV persistence is automatic for trading state.

04 **⚠ Problem: Multi-day hold with partial profit taking — complex position management**

Swing trade XAUUSD: enter at \$2650, targets \$2700. Want to take 30% profit at \$2670, another 30% at \$2690, trail the rest. Manual management is exhausting.

✔ SmartifyTrade EA Solution:

Partial Close Ladder executes this automatically via signal JSON. `pc1_money=20` closes 30% at \$20 profit. `pc2_money=40` closes another 30% at \$40 profit. PC Trail then trails the remaining 40% from the peak — if profit retreats by `InpPCTrailOffsetMoney` dollars from the highest point, the remainder is closed. All automated, all night.

Relevant Inputs: JSON: `pc1_money=20, pc1_lots=0.03, pc2_money=40, pc2_lots=0.03, InpEnablePCTrail=true`

05

⚠ Problem: Strategy fires new signal during off-hours — bad time to enter swing

4H strategy fires a BUY at 1am on Sunday when markets are thinly traded. Spread is 80 points. Position opens at terrible price — swing trade starts in a hole.

✔ SmartifyTrade EA Solution:

Time Window restricts new entries to specific hours. Session Lot Multiplier can set off-session to 0.0 — blocking all entries outside your preferred sessions. Combined with Spread Guard, swing traders can ensure entries only happen during liquid market hours with tight spreads.

Relevant Inputs: `InpEnableTimeWindow=true, InpTradeWindowStart=08:00, InpTradeWindowEnd=22:00, InpSessionOffMult=0.0`

06

⚠ Problem: EA not running 24/7 — position opened, then MT5 closes, no management

Trader runs MT5 on home PC. PC sleeps at night. EA is not active. Partial close targets never fire, trailing stop never activates, position drifts overnight unmanaged.

✔ SmartifyTrade EA Solution:

MT5 trade management (SL/TP) works without the EA. But PC Ladder, BE trigger, PC Trail, and Virtual SL/TP require the EA to be running. Solution: use a VPS for 24/7 operation. The EA is designed for always-on VPS deployment. `InpAutoCloseBeforeExpiry` prevents stranded positions when the license is about to expire.

Relevant Inputs: Run EA on a 24/7 VPS. `InpAutoCloseBeforeExpiry=true` as safety net.

07

⚠ Problem: No alert when swing position is in significant drawdown overnight

Position opened at \$2650. Overnight, price drops to \$2630. Trader sleeping — doesn't know. No action taken. Next morning, position is already -\$200.

✔ SmartifyTrade EA Solution:

Max DD from Entry closes the position automatically if floating loss from entry exceeds the threshold. Telegram notification sent immediately when any trade close or guard event fires — trader wakes up to a Telegram message. Velocity Guard detects rapid drawdown even on single positions.

Relevant Inputs: `InpEnableMaxDDEntry=true, InpMaxDDFromEntry=50, InpTelegramEnabled=true, InpTgNotifyTradeClose=true`

💡 Pro Tip: Swing traders: the most critical inputs are `weekly_close` and `swap_close_before_sec` in your signal JSON. Configure these per-stream so short-term streams (BTC 24/7) are excluded while long-term XAUUSD streams get full weekend protection.

Recommended Setup — Swing / Position Trader

Input / Setting	Recommended Value & Reason
JSON: <code>weekly_close</code>	true for forex/gold, false for crypto 24/7
JSON: <code>weekly_close_time</code>	20:00 (broker time, before market closes)
JSON: <code>weekly_reopen</code>	true for trend-following, false for mean-reversion
JSON: <code>swap_close_before_sec</code>	3600 (1 hour before rollover)
JSON: <code>swap_reopen_after_sec</code>	1800 (30 min after market opens)

Input / Setting	Recommended Value & Reason
InpEnablePCTrail	true — protect partial close profits automatically
InpEnableMaxDDEntry	true — emergency close if position goes too deep
InpTelegramEnabled	true — InpTgNotifyTradeClose=true for overnight alerts
InpEnableTimeWindow	true — restrict new entries to liquid hours

Universal Issues — Any Trader Type

These issues affect traders of all types. Every SmartifyTrade EA user should be aware of these solutions.

⚠ **Problem: No idea what EA is doing — black box behavior**

EA is attached but trader doesn't know if it's working, what signal just came in, why a trade was blocked, or what the current risk status is.

U1

✅ **SmartifyTrade EA Solution:**

Info Panel shows everything in real time: last signal received, last rejection reason, all active guards and their status, prop firm metrics (in PROP mode), symbol stats, equity curve, slippage averages, time heatmap. Plus: Activity Log CSV records every event permanently. Telegram sends alerts for every significant event.

Relevant Inputs: `InpShowPanel=true, InpTelegramEnabled=true, InpEnableJournal=true`

⚠ **Problem: Broker maps XAUUSD differently — XAUUSDm, XAUUSD.c, Gold, etc.**

TradingView signal says XAUUSD. Broker has XAUUSDm. EA can't find the symbol. Trade never executes. Error: SYMBOL_NOT_FOUND.

U2

✅ **SmartifyTrade EA Solution:**

Symbol Auto-Map scans all available broker symbols and finds the best match for the signal symbol. XAUUSD → XAUUSDm, EURUSD → EURUSD.r, NAS100 → NAS100.cash etc.

`InpSymbolMapPreferExact=true` ensures exact matches are preferred. Once mapped, the broker symbol is stored and reused.

Relevant Inputs: `InpEnableSymbolAutoMap=true` (default) — usually works automatically

⚠ **Problem: EA stops responding — HTTP timeout, server offline**

VPS network connection drops. EA can't reach server. No new signals processed. Trader not aware. Existing positions have no management.

U3

✅ **SmartifyTrade EA Solution:**

EA implements exponential backoff on HTTP failures — 3 failures triggers 30-second wait, then retries. Panel shows [SERVER OFFLINE] status. Telegram alert sent on first failure. All existing position management (SL/TP, PC Ladder, trail) continues working even when server is offline — these are managed locally by the EA.

Relevant Inputs: `InpTimeoutMs=8000` for slow connections. `InpTelegramEnabled=true` for offline alerts.

⚠ **Problem: Account has both EA positions and manual trades — Close All wipes everything**

Trader has a manual hedge trade open. Panic button is pressed. `InpCloseAllScope=1` closes everything including the manual hedge — unexpected loss.

U4

✅ **SmartifyTrade EA Solution:**

`InpCloseAllScope=0` (default) ensures ALL close operations (panic, daily risk, velocity guard, prop guards) only close EA-tagged positions (identified by 'SmartifyTrade.Com' in the comment field). Manual trades are completely untouched. Set `InpCloseAllScope=1` only when EA is the sole trader on the account.

Relevant Inputs: `InpCloseAllScope=0` (default, safe) — protects manual trades always

⚠ **Problem: EA settings change between sessions — can't track what changed**

Trader adjusts 15 inputs trying to fix a problem. Two days later, can't remember what the original settings were. Strategy behaves differently but reason is unclear.

U5

**✔ SmartifyTrade EA Solution:**

Input Snapshot tracks every input setting at EA start. If any input changed since the last session, the exact changes are logged to the Activity Log CSV with field name, old value, and new value. This creates a complete audit trail of every configuration change — essential for debugging strategy behavior changes.

Relevant Inputs: `Activity Log` is always on. `BuildInputSnapshot` runs on every EA start automatically.

