

# PropPortfolio EA

## Changelog Report — Version 1.33 → 1.34

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### 1. Executive Summary

Version 1.34 introduces one major new feature (a full second dashboard page), two new input parameters, one new utility function, multiple bug fixes to trade execution, and a comprehensive translation of all internal code comments from Italian to English. The changes are entirely backward-compatible: no existing input parameters have been removed or renamed, and default values are unchanged.

Area	Summary of Changes
New Feature	Complete second dashboard page (Page 2) with live trade stats, market conditions, session clock, and drawdown bar
New Input	Trade_Max_Deviation_Points — configurable slippage/requote guard (replaces hardcoded 50)
New Function	NormalizeAndValidateTradeVolume() — pre-send broker volume validation with step alignment
Dashboard Assets	interface_1.bmp + interface_2.bmp replace the single backgroundpropea.bmp
Bug Fix — Deviation	All SafeMarketBuy/Sell and ClosePositionIfSessionOpen now use Trade_Max_Deviation_Points
Bug Fix — Volume	All four Safe order wrappers validate & normalize volume before sending
Bug Fix — Logging	PrintTradeResult() logs success only in EffectiveDebug mode; trade-failure log is always printed
Bug Fix — News	News table on Page 1 trimmed to 2 rows (was 5) to prevent footer overlap
Bug Fix — Dashboard	Hard page-isolation on page switch prevents P1 labels bleeding behind P2 text
Code Quality	~120 Italian inline comments translated to English throughout the file

### 2. New Input Parameters

#### 2.1 Trade\_Max\_Deviation\_Points (new)

Group: FAST MODE / TESTER-LIVE SETTINGS

Default value: 50 Type: int

In v1.33, the slippage/requote deviation was hardcoded as a literal 50 in three separate call sites:

```
trade.SetDeviationInPoints(50); // v1.33 - hardcoded in SafeMarketBuy,
SafeMarketSell, ClosePositionIfSessionOpen
```

In v1.34, all three sites now reference the new input, making the deviation user-configurable without recompilation:

```
trade.SetDeviationInPoints(Trade_Max_Deviation_Points); // v1.34
```

The description comment reads: "Slippage/requote guard: max price deviation accepted by broker". This is particularly useful for brokers that require a higher deviation tolerance on high-impact news events or during Asian-session low-liquidity periods.

## 2.2 Dash\_Show\_Decorations\_In\_Tester (new)

Group: implicitly part of the dashboard block

Default value: `false` Type: `bool`

Controls whether the logo bitmap and background rectangle are rendered inside the Strategy Tester. When false (default), only textual dashboard rows are shown in tester runs, which speeds up visual backtests and avoids rendering artifacts. On a live chart the setting has no effect — decorations are always drawn.

## 3. New Dashboard Resources

The embedded bitmap resource was split from one file into two in v1.34:

Version	Resource(s)	Purpose
v1.33	<code>backgroundpropea.bmp</code>	Single background for the one-page dashboard
v1.34	<code>interface_1.bmp</code>	Background for Page 1 (main dashboard)
v1.34	<code>interface_2.bmp</code>	Background for Page 2 (analytics dashboard)

The bitmap is selected dynamically at render time — Page 1 loads `interface_1.bmp`, Page 2 loads `interface_2.bmp`. Both bitmaps are 508 × 552 pixels, consistent with the dashboard geometry used since v1.31.

## 4. New Function: NormalizeAndValidateTradeVolume()

A new utility function is added and called in every order-sending wrapper before the trade request is forwarded to `CTrade`:

**Signature:** `bool NormalizeAndValidateTradeVolume(const string symbol, double &lots, const string context)`

What it does, step by step:

- Reads `SYMBOL_VOLUME_MIN`, `SYMBOL_VOLUME_MAX`, and `SYMBOL_VOLUME_STEP` from the broker.
- Calls `NormalizeLot()` to align the requested volume to the step grid.
- Verifies the normalized value lies within `[min, max]` and is an exact multiple of step (dual tolerance check with both modulo and fractional-steps methods).

- If validation fails, prints a detailed diagnostic in debug mode (rate-limited to once per 60 seconds to avoid log flooding) and returns false — the order is cancelled before reaching the broker.
- If the lot was silently rounded, prints a normalisation notice in debug mode.

In v1.33 this logic was performed implicitly inside `CheckMoneyForTrade()` and `OrderCalcMargin()`, which could pass an off-step volume to the broker and receive a rejection after the fact. The new function makes the check explicit and prevents the network round-trip entirely.

Call sites added in all four Safe wrappers:

```
SafeMarketBuy() - double safeLot = lot; NormalizeAndValidateTradeVolume(...);
CheckMoneyForTrade(..., safeLot, ...)
SafeMarketSell() - identical pattern
SafeBuyLimit() - identical pattern
SafeSellLimit() - identical pattern
```

## 5. New Dashboard Feature: Page 2 (Analytics)

This is the largest single change in v1.34. A complete second dashboard page is implemented, toggled by two invisible clickable hotspot buttons overlaid on the Page 1 bitmap (top-right corner). Clicking the Page 2 button rebuilds the display using `BuildDashboardPage2()`; clicking the Page 1 button restores the original view.

### 5.1 Page switching infrastructure

- Two new global variables: `g_dashboardPage` (current page, 1 or 2) and `g_dashboardRenderedPage` (last rendered page, used to detect transitions).
- `DashPageHotspot()` — creates an invisible `OBJ_RECTANGLE_LABEL` at a given position with `ZORDER 100`, acting as a clickable region.
- `DashPageButtons()` — places two hotspots at pixel offsets `(ox+468, oy+25)` and `(ox+468, oy+47)` matching the buttons already drawn in the bitmap.
- `OnChartEvent()` now handles `CHARTEVENT_OBJECT_CLICK`: when `PAGE_1_BTN` or `PAGE_2_BTN` is clicked, `g_dashboardPage` is updated and `ForceDashboardRefresh()` is called.
- Hard page isolation: whenever `g_dashboardRenderedPage` differs from `g_dashboardPage`, `DashboardDelete()` is called before rebuilding, preventing Page 1 `OBJ_LABEL` objects from bleeding through the Page 2 overlay.
- `DashboardDeleteNonPage2Objects()` — called at the start of `BuildDashboardPage2()` to remove any Page 1 objects that survived the page transition.

### 5.2 Helper functions added for Page 2

All P2\* helpers are new in v1.34:

- `P2Text()` / `P2Field()` — label renderers with `ZORDER 3` (above background and rectangles).
- `DashTradeSideText()` / `DashTradeSideColor()` — convert position type to text/color.
- `IsSessionActiveNow(sessionName)` — returns true if the named session (SGX, TYO, LON, NYK) is open based on GMT offset.
- `P2SessionDetails()` — computes current session name, time window, remaining time, and next session.
- `P2DashboardSymbol()` / `P2Money()` / `P2Pct()` / `P2Price()` — formatting utilities.
- `CalculateDrawdownPercent()` —  $(\text{balance} - \text{equity}) / \text{balance} \times 100$ .
- `CalculateRiskPercent()` —  $\text{Risk\_Money\_Per\_Trade} / \text{balance} \times 100$ .
- `P2DayStart()` — returns 00:00:00 of the current server day.

- P2ClosedStats() — reads MT5 deal history filtered by Magic and optional symbol, computing: total trades, wins, losses, net P&L, gross win, gross loss, average win, average loss, best/worst trade, max consecutive wins/losses.
- CalculateWinRate() / CalculateAvgWin() / CalculateBestWin() — thin wrappers over P2ClosedStats().
- P2PrimaryPosition() — returns side, lot, entry, current price, TP, SL and colors for the first EA position on the symbol.
- P2CurrentRSI() / P2CurrentATR() / P2CurrentADX() — read live indicator values from SymbolState handles.
- P2PointsPerPip() — returns 10 for 3- or 5-digit symbols, 1 otherwise.
- P2RiskModeText() — returns "MONEY", "EQUITY", or "FIXED".
- P2CurrentSessionName() — returns the name of the currently active market session.

### 5.3 Page 2 layout (BuildDashboardPage2)

Page 2 is divided into six information panels overlaid on interface\_2.bmp:

- Position / Orders panel — shows current direction, lot size, entry price, current price (color-coded by P&L), TP, and SL.
- RangeGuard Filter panel — shows Range status (TRUE/FALSE), volatility level (NORMAL/HIGH based on ADX), active market session, and news window status (OK/BLOCK).
- Strategy / Settings panel — shows RSI period, Buy/Sell levels, risk mode, and Magic number.
- Daily Summary panel — shows today's closed P&L, open floating P&L, trade count, wins, losses, and Profit Factor.
- Risk Status panel — shows Balance, Equity, risk %, drawdown %, a "DD Used" percentage, and a graphical drawdown progress bar (108px wide, filled proportionally to the DD limit).
- Market Conditions panel — shows Trend (RANGE/STRONG), RSI Bias (BULLISH/BEARISH/NEUTRAL), ATR value, spread in pips, RSI value, and a three-label BEARISH/NEUTRAL/BULLISH scale.
- Trade Statistics panel — shows all-time total trades, win rate, average win, average loss, best/worst trade, max consecutive wins and max consecutive losses.
- Session Status panel — shows current session, session window hours, remaining time, server and local clock, next session name, and four active-session indicators (SGX / TYO / LON / NYK) color-coded green/gray.

## 6. Bug Fixes and Behaviour Changes

### 6.1 Configurable trade deviation (all Safe wrappers)

Affected functions: SafeMarketBuy(), SafeMarketSell(), ClosePositionIfSessionOpen()

- v1.33: trade.SetDeviationInPoints(50) was hardcoded in three places.
- v1.34: all three calls use trade.SetDeviationInPoints(Trade\_Max\_Deviation\_Points), which defaults to 50, preserving identical behaviour for existing users while allowing tuning.

### 6.2 Pre-send volume validation in Safe order wrappers

Affected functions: SafeMarketBuy(), SafeMarketSell(), SafeBuyLimit(), SafeSellLimit()

- v1.33: the raw lot value was passed directly to CTrade without a prior step-alignment check. A mismatch between the EA-calculated lot and the broker step could cause a server rejection with retcode 10014 (Invalid Volume).
- v1.34: each wrapper calls NormalizeAndValidateTradeVolume() before CheckMoneyForTrade(), blocking the order if the volume cannot be brought into compliance, and logging the exact reason.

### 6.3 PrintTradeResult() — success log behind EffectiveDebug

Affected function: PrintTradeResult()

- v1.33: the success path (retcode DONE/PLACED) printed unconditionally; a guard check for EffectiveDebug was present but only on the outer block, not the inner Print.
- v1.34: the success Print is wrapped in if(EffectiveDebug()), consistent with the intent. The failure Print (else branch) is always executed, ensuring trade rejections appear in the log even with Debug\_Mode off.

### 6.4 RegisterTradeFailure() — always logs failure

Affected function: RegisterTradeFailure()

- v1.33: the Print at the end of RegisterTradeFailure() was guarded by if(EffectiveDebug()), meaning failures could be silently swallowed when Debug\_Mode was off.
- v1.34: the guard is removed — the failure message is always printed to the MT5 log regardless of debug mode.

### 6.5 News table — max visible rows reduced from 5 to 2

Affected section: BuildDashboard() news table block

- v1.33: maxRows = 5, allowing up to five upcoming news items to be listed in the dashboard.
- v1.34: maxRows = 2, with a separate cleanupRows = 5 for the orphan-label cleanup loop. This prevents the news rows from overlapping the footer at the bottom of the 552-pixel panel when several events are loaded.

### 6.6 Dashboard page-transition isolation

Affected function: BuildDashboard()

- v1.33: switching from Page 1 to Page 2 could leave OBJ\_LABEL objects (created by DashLabel/DashStaticLabels) behind the Page 2 P2Text overlay, producing double text.
- v1.34: BuildDashboard() checks if g\_dashboardRenderedPage != g\_dashboardPage and calls DashboardDelete() before drawing the new page. g\_dashboardRenderedPage is reset to 0 in ForceDashboardRefresh() to guarantee a full rebuild after a chart symbol/period change.

## 7. Code Quality — Comment Translation

Approximately 120 inline comments that were written in Italian in v1.33 have been translated to English in v1.34. No logic changes are associated with these edits. The translation covers the following areas:

- ENUM declarations (BB\_ENTRY\_\*, MACD\_TRIGGER\_\*, RISK\_SIZING\_MODE, STRATEGY\_FAST\_MODE)
- Input parameter descriptions (AutoLot\_Equity\_Per\_1\_Lot, AutoLot\_Max\_Lot, Stoploss/Takeprofit fallback comments)
- Global variable comments (g\_newsNames[], g\_newsCurrencies[], g\_newsImportance[], g\_lastNewsAttempt, g\_hour)
- Block-level comments in lot calculation logic (ConfiguredBaseLotRawForEquity, CheckEquityCycleReset, BaseLotRaw, BuildLotForOrderFromRaw, NormalizeLot, RefreshEquityCyclePositionBaselines)
- Runtime variable comments (ScalePoints, SafeLotIncrease, SafeLotMultiplier)
- News calendar comments (ClearNewsEvents, DownloadNewsEvents, CheckAutoNewsRefresh)
- Dashboard rendering comments (DashLabel, DashLogoBitmap, BuildDashboard, ForceDashboardRefresh)
- Symbol adaptive stop comments (InitSymbolAdaptiveStops)

- OnInit() news download block comments

This translation has no impact on compiled EA behaviour and is intended to improve readability for international developers and code reviewers.

## 8. Unchanged Behaviour (Backward Compatibility)

The following elements are confirmed identical between v1.33 and v1.34:

- All existing input parameter names, types, and default values.
- All trading logic: RSI mean-reversion signal, RangeGuard filter, BB/MACD strategy, pending order placement, basket closure levels, hard-stop logic.
- Equity cycle reset formula and lot scaling.
- News filter (calendar download, retry logic, GMT correction, currency/keyword filtering).
- Forex netting validation safe mode guards (v1.31/v1.32 fixes).
- Strategy selector (STRATEGY\_RSI\_RANGE\_GUARD, STRATEGY\_BB\_MACD\_ATR, STRATEGY\_FAST\_MODE).
- Page 1 dashboard layout, all label positions, and static text.
- OnInit() parameter validation checks (all guards identical).
- Magic number, symbol single-mode architecture, OnTimer()/OnTick() dispatch.

## 9. File Size Summary

Version	File Size	Delta
v1.33	161,155 bytes	—
v1.34	191,638 bytes	+30,483 bytes (+19%)

The 19% size increase is almost entirely attributable to the new Page 2 dashboard code (~700 lines) and the NormalizeAndValidateTradeVolume() function (~55 lines). The rest consists of the translated comments and the four additional NormalizeAndValidateTradeVolume + CheckMoneyForTrade call sites in the Safe wrappers.

## 10. Upgrade Instructions

No action is required for users who are updating an existing EA instance:

- All parameter defaults are unchanged — existing saved sets (.set files) are fully compatible.
- The new Trade\_Max\_Deviation\_Points input defaults to 50, matching the hardcoded value in v1.33.
- Dash\_Show\_Decorations\_In\_Tester defaults to false, which matches the implicit behavior of v1.33 in tester mode.

For compilation, both interface\_1.bmp and interface\_2.bmp must be present in the EA's resource directory (alongside the .mq5 file). The old backgroundpropea.bmp is no longer referenced and can be removed.