

T5 COPIER USER GUIDE

Professional Multi-Terminal Trade Replication Engine

Document: Operations Guide & Technical Reference Manual

Terminal Version: MetaTrader 5

Status: Production Ready & Verified

Tech Stack: Go Bridge Router / C# WPF Core Dashboard / ZMQ Subsystem

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1. Technical Architecture & Tech Stack

The copier is designed for zero-latency, high-reliability trade replication between terminals using a decoupled network topology. It completely bypasses slow file-writing or shared database techniques.

Layer	Tech Stack	Description
Master & Slave EAs	MQL5 (Strict Compile)	Master monitors order actions and broadcasts via ZMQ. Slave polls at 10ms to duplicate positions.
ZMQ Transport	ZeroMQ (libzmq / NetMQ)	Provides low-latency PUB/SUB sockets. Matches 32-bit (MT4) or 64-bit (MT5) architecture requirements.
Router Bridge	Go Language (1.25)	A standalone multiplexer routing packets from Master (5557/5567) to Slaves (5558/5568) and Dashboard (5559/5569) instantly.
WPF Dashboard	C# / XAML (.NET 10)	A high-fidelity Windows desktop utility with dark styling, a live trade mapping grid, and raw network event logs.

2. In-Depth Core Features

2.1 Multi-Terminal Copy Sizing Modes

Configure trade multipliers and lot controls to align with risk requirements:

- *Full Copy*: Duplicates the exact volume traded on the Master account.
- *Ratio-Based Copy*: Multiplies Master trade lots by a customizable multiplier (e.g., x2.0 or x0.5).
- *Fixed Lot Copy*: Ignores Master lot sizes and opens a hardcoded lot size.

2.2 Professional Reverse Copying

For proprietary hedging or counter-trading, enabling reverse copy automatically inverts all order directions (Master BUY becomes Slave SELL, Master SELL becomes Slave BUY). Stop Loss (SL) and Take Profit (TP) distance levels are dynamically inverted relative to the entry execution price.

2.3 Ticket Mapping Persistence

Associates Master tickets with local Slave tickets using terminal Global Variables. This protects active trades from terminal crashes, system reboots, or internet disconnections; upon restarting, the Slave instantly retrieves the linked tickets to modify or close them correctly.

3. Deployment & Operational Guide

Step 1: Start the Bridge Engine

Launch the compiled Go router bridge executable: T5Copier_Bridge.exe.

Step 2: Attach the Master EA

Attach the Master EA (T5Copier_Master) to any single chart on the Master terminal. Ensure 'Allow DLL imports' is checked in the EA properties.

Step 3: Attach the Slave EAs

Attach the Slave EA (T5Copier_Slave) to a chart on each Slave terminal. Set the desired Copy Mode, Multiplier, or Reverse copy parameters. Check 'Allow DLL imports' and 'Allow live trading'.

Step 4: Monitor via C# Dashboard

Open the compiled C# dashboard: CSharpDashboard.exe.

Select the target channel (MT5 Copier) and click 'Connect Dashboard' to view active trade maps and logs.