



Trade Copier for MT4/MT5 — User Manual

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What the Trade Copier does

The Trade Copier copies the trades on your MetaTrader 4 or MetaTrader 5 account onto your MobiusTrader 7 (MT7) account at Crystal Ball Markets, automatically and almost instantly.

- **Every trade, however it was placed.** Trades you place by hand, trades placed by an Expert Advisor (EA), and trades placed from your phone on the same account are all copied, as long as the terminal running the EA is on.
- **Opens, changes and closes.** A new position opens on MT7. Stop-loss and take-profit changes follow it. A partial close shrinks the MT7 position to match, and a full close closes it.
- **Your MT4/MT5 account is never touched.** The Trade Copier EA only reads your positions and reports them. It never opens, changes or closes anything on MT4/MT5.
- **A clear audit trail.** Every MT7 trade it opens carries a comment naming the MT4/MT5 account and ticket it copies.

How it works: you attach the Trade Copier EA to one chart in your MT4/MT5 terminal. Whenever your positions change, it sends them to the Crystal Ball Markets copier service, which places the matching trades on your MT7 account.

What you need before you start

You need four things: the MT4/MT5 desktop terminal, an MT7 account at Crystal Ball Markets, its login details, and a computer that stays on while you trade.

- **MetaTrader 4 or MetaTrader 5 desktop terminal**, logged in to the account you want to copy from. Any broker works. EAs cannot run in the MT4/MT5 mobile or web apps.
- **A MobiusTrader 7 trading account at Crystal Ball Markets** to copy to, with enough margin for the trades you will copy.
- **Your MT7 login details:**
 - the MT7 trading account number (the trades are placed on this account)
 - the e-mail address you log in to MT7 with

- your MT7 trading password (the investor / read-only password will not work)
- **A terminal that stays running.** Copying only happens while the terminal with the EA is open and connected. For round-the-clock copying, run it on a VPS (a virtual private server).

What's in the package

The zip holds one EA for each platform, inside the folder *Trade Copier for MT4 and MT5 - Crystal Ball Markets*. Use only the file for your platform.

Folder	File	Use it with
MT4	TradeCopierPublisher.ex4	MetaTrader 4
MT5	TradeCopierPublisher.ex5	MetaTrader 5

Installing on MetaTrader 5

Setup takes about five minutes and is done once.

1. **Copy the EA into MT5.** In MT5, click **File > Open Data Folder**. Open **MQL5**, then **Experts**, and copy `TradeCopierPublisher.ex5` into it.
2. **Refresh the list.** In the **Navigator** window (Ctrl+N), right-click **Expert Advisors** and choose **Refresh**. **TradeCopierPublisher** now appears in the list.
3. **Allow the EA to reach the copier service.** Click **Tools > Options** and open the **Expert Advisors** tab. Tick **Allow WebRequest for listed URL**, click **Add new URL**, and enter exactly:
 - `https://trade-copier-bridge.cbmaffiliates.workers.dev`
 Click **OK**.
4. **Attach the EA to one chart.** Open any chart (any symbol and timeframe will do) and drag **TradeCopierPublisher** onto it. Use one chart only; one copy of the EA per MT7 account is all you need.
5. **Enter your MT7 details.** In the window that opens, go to the **Inputs** tab and fill in:
 - **MT7 trading account number**
 - **MT7 login e-mail**
 - **MT7 trading password**

Leave **Bridge URL** as it is. See EA settings reference below for the other settings, then click **OK**.

6. **Check it is linked.** The top-left corner of the chart first shows *Linked to MT7*, then *Copying to MT7*, each followed by your MT7 account number. You are done.

Switch on the **Algo Trading** button on the MT5 toolbar so the EA runs normally. It still never places trades on your MT5 account. Leave the chart open: closing it stops copying.

Installing on MetaTrader 4

The steps match MetaTrader 5, with MT4's folder and file names.

1. **Copy the EA into MT4.** In MT4, click **File > Open Data Folder**. Open **MQL4**, then **Experts**, and copy `TradeCopierPublisher.ex4` into it.
2. **Refresh the list.** In the **Navigator** window (Ctrl+N), right-click **Expert Advisors** and choose **Refresh**.
3. **Allow the EA to reach the copier service.** Click **Tools > Options** and open the **Expert Advisors** tab. Tick **Allow WebRequest for listed URL** and add exactly:
 - `https://trade-copier-bridge.cbmaffiliates.workers.dev`
 Click **OK**.
4. **Attach the EA to one chart.** Drag **TradeCopierPublisher** onto any one chart.
5. **Enter your MT7 details** on the **Inputs** tab: MT7 trading account number, MT7 login e-mail and MT7 trading password. Leave **Bridge URL** as it is and click **OK**.
6. **Check it is linked.** The top-left corner of the chart first shows *Linked to MT7*, then *Copying to MT7*, each followed by your MT7 account number.

As on MT5, switch on the **AutoTrading** button on the toolbar so the EA runs normally; it still never places trades on your MT4 account. Leave the chart open: closing it stops copying.

EA settings reference

Only the three MT7 login settings are required; every other setting works as delivered. Settings are on the EA's **Inputs** tab, in this order.

Setting	Default	What it does
Bridge URL	<code>https://trade-copier-bridge.cbmaffiliates.workers.dev</code>	The copier service address. Do not change it.
MT7 trading account number	0	Required. The MT7 account the trades are placed on.

Setting	Default	What it does
MT7 login e-mail	blank	Required. The e-mail you log in to MT7 with.
MT7 trading password	blank	Required. Checked each time the EA connects, to prove the MT7 account is yours. Never stored by the copier service.
Lot mode	Multiplier	How MT7 trade size is worked out: Multiplier, Fixed lots or Equity ratio. See Lot sizing.
Lot value (shown as <i>Multiplier / fixed lots / equity-ratio factor</i>)	1.0	The multiplier, the fixed lot size, or the equity-ratio factor, depending on Lot mode.
Copy stop loss and take profit	true	When false, MT7 trades open without SL/TP and later SL/TP changes are not copied.
Symbol overrides	blank	Your own symbol name pairs, for example GER30=GER40v ; US30 . cash=USA30 . See Symbol names.
Target suffix (shown as <i>Suffix your MT7 account trades with</i>)	blank	Only if your MT7 account's symbols end in a suffix, for example .ecn .
Magic filter (shown as <i>Copy only these magic numbers</i>)	blank (copy everything)	Copy only trades with these magic numbers, for example 1001, 1002 . Manual trades have magic number 0, so add 0 to keep copying them.

Setting	Default	What it does
Check interval (shown as <i>How often to check for changes (ms)</i>)	500	How often the EA looks for changes. Leave as is.
Heartbeat (shown as <i>Re-send unchanged state every N seconds</i>)	60	How often the EA re-sends your positions when nothing has changed. Leave as is.

To change a setting later, press F7 on the chart, edit the Inputs tab and click **OK**. The EA reconnects with the new settings. Changes to lot sizing and symbol overrides apply to trades opened after the change; trades already copied keep their size.

Lot sizing

By default (Multiplier, 1.0) each MT7 trade has the same market exposure as the MT4/MT5 trade it copies. Pick a different mode with **Lot mode** and set its number in **Lot value**.

Lot mode	MT7 trade size	Example
Multiplier	Your MT4/MT5 size × Lot value	Lot value 0.5: a 1.00-lot trade is copied as 0.50 lots.
Fixed lots	Always Lot value, whatever the MT4/MT5 size	Lot value 0.10: every trade is copied as 0.10 lots.
Equity ratio	Your MT4/MT5 size × (MT7 equity ÷ MT4/MT5 equity) × Lot value	MT7 equity \$2,000, MT4/MT5 equity \$10,000, Lot value 1.0: a 1.00-lot trade is copied as 0.20 lots.

Good to know:

- **Size is matched by exposure, not by the lot number.** Brokers define a lot differently for indices and commodities. If your broker's US30 lot is 1 contract and the MT7 lot is 10 contracts, 1 lot on MT5 is copied as 0.1 lots on MT7.

- **Sizes round down to 0.01 lots.** A trade that would come out below 0.01 lots is not copied, rather than being rounded up to more risk than you chose.
- **The largest copied trade is 10 lots.** Bigger trades are copied at 10 lots.
- **Partial closes follow in proportion.** Closing half of an MT4/MT5 trade closes half of its MT7 copy.
- **Equity ratio is fixed when a trade opens.** Later equity changes do not resize trades that are already open.

Symbol names

Forex pairs, metals, crypto and the major indices and commodities are matched to their MT7 names automatically. You only need **Symbol overrides** for a symbol that is not.

Automatic matching. Broker decorations are ignored, so `EURUSD.m`, `EURUSDm` and `#EURUSD` are all copied as EURUSD. Currency pairs, metals and crypto are matched by their currencies. Common index and commodity names are matched to Crystal Ball Markets' names:

Your broker's name (examples)	MT7 name
US30, DJ30, WS30, US30.cash	USA30
NAS100, US100, USTEC	USA100
US500, SPX500	USA500
GER40, DE40, GER30, DAX40	GER40v
JP225, JPN225	NIKKEI225
WTI, XTIUSD	USOIL
GOLD	XAUUSD

A price safety check. Before copying a symbol, the service compares its price at your broker with its price on MT7. If they differ by more than 3%, the trade is not copied. This guards against a wrong match trading the wrong instrument.

When a symbol is not matched, the trade is not copied and the chart shows a line such as *Skipped: 1 not copied, e.g. #12345 unknown_symbol:XYZ*. Add an override and press OK:

- Write each pair as `YourBrokerName=MT7Name`, for example `CL=USOIL` if your broker calls crude oil CL (on MT7, CL is a stock).
- Separate pairs with a semicolon: `GER30=GER40v; US30.cash=USA30`.
- Type the MT7 name exactly as it appears in MT7's Market Watch.

Target suffix. Fill this in only if the symbols on your MT7 account carry an ending such as `.ecn`. Leave it blank otherwise.

Reading the status panel

The top-left corner of the chart shows what the Trade Copier is doing. When all is well, the second line reads *Copying to MT7* followed by your MT7 account number.

The panel has up to five lines:

1. **Header:** the EA version, your MT4/MT5 account number and the MT7 account it copies to.
2. **Status:** one of the messages in the table below.
3. **Mirrored positions on MT7:** how many copied positions are open on MT7.
4. **Last:** the most recent action on MT7, for example *open #987654321*.
5. **Skipped:** trades that could not be copied, and why (shown only when there are any).

Status message	Meaning	What to do
Copying to MT7 #...	Everything is working.	Nothing.
Linked to MT7 #...	Your MT7 login was accepted. Copying starts a moment later.	Nothing.
Starting...	The EA has just started.	Wait a few seconds.
Waiting for trade server connection	Your MT4/MT5 terminal is not connected to your broker.	Check your internet connection and MT4/MT5 login.
Allow WebRequest for https://... in Tools > Options > Expert Advisors	The EA is not allowed to reach the copier service.	Do step 3 of the installation.
Cannot reach the bridge ... retrying	No connection to the copier service.	Check your internet connection or firewall. The EA retries by itself.
MT7 login rejected: check MT7 account number, e-mail and password	The MT7 details do not match. The EA stops trying until you fix them.	Correct the three MT7 settings and click OK. See Troubleshooting.

Status message	Meaning	What to do
Too many failed logins - retrying in 15 minutes	Too many failed login attempts, so logins are locked for at least 30 minutes.	Correct your MT7 details. The EA tries again every 15 minutes until the lock ends.
This MT7 account is not enabled for copying yet	Copying has not been switched on for this MT7 account.	Contact Crystal Ball Markets support.
This MT7 account is disabled	The MT7 account is disabled.	Contact Crystal Ball Markets support.
Bridge rejected the EA settings (...)	A setting is in the wrong format, for example letters in Magic filter.	Check Lot value, Symbol overrides, Target suffix and Magic filter for typing mistakes.
Bridge unavailable ... retrying / Sync failed ... retrying	A temporary problem at the copier service or MT7.	Nothing. The EA retries by itself. If it lasts over 15 minutes, contact support.
DRY RUN (bridge not trading)	The copier service is in test mode and places no trades.	Contact Crystal Ball Markets support.
Bridge copying is OFF	Crystal Ball Markets has paused copying.	Contact Crystal Ball Markets support.

What gets copied, and what happens when...

The Trade Copier copies open buy and sell positions. Pending orders (limits and stops) are not copied while they wait, but the position is copied as soon as one fills.

Situation	What happens on MT7
You attach the EA while trades are already open	Those trades are copied straight away, at the current MT7 price. Close any you do not want copied before attaching the EA.
You open a trade	A matching trade opens on MT7 straight away, at MT7's own market price, which can differ slightly from your broker's.
You change stop loss or take profit	The MT7 trade is updated, if Copy stop loss and take profit is on.

Situation	What happens on MT7
You close part of a trade	The MT7 trade is reduced in the same proportion.
You close a trade, or SL/TP closes it	The MT7 trade is closed.
You add to or reverse a position on an MT5 netting account	The MT7 side is increased, or closed and reopened the other way, to match.
You close the MT7 trade yourself, or its SL/TP hits first	It stays closed. The copier never reopens it, and later changes to that MT4/MT5 trade are ignored.
Your terminal, VPS or internet is off	Nothing is copied while it is off. When it is back, the EA catches up: new trades are copied and trades you closed are closed on MT7 within a few minutes. A trade opened and closed entirely while it was off is never copied.
You remove the EA from the chart	Copying stops. Trades already copied stay open on MT7 and are no longer managed; close them yourself or re-attach the EA.
You switch the terminal to a different MT4/MT5 account	The EA starts copying the new account into the same MT7 account. Remove the EA first if you do not want that. Copies of the old account's trades stay open and resume being managed when you switch back.

You can copy one MT4/MT5 account to several MT7 accounts by attaching one EA per MT7 account, each on its own chart. Several MT4/MT5 accounts can also copy into one MT7 account; the comment on each trade tells them apart.

Audit trail: the MT7 trade comment

Every trade the copier opens on MT7 has a comment naming the platform, account, ticket and broker server it copies, so you can match any MT7 trade to its original.

```
MT5:51234567 #987654321 @YourBroker-Live
```

Part	Meaning
MT5:51234567	The platform (MT4 or MT5) and your MT4/MT5 account number
#987654321	The ticket (MT4) or position number (MT5) of the copied trade
@YourBroker-Live	Your MT4/MT5 broker's server name

Two cases look slightly different:

- **A /2 , /3 after the ticket** means an extra MT7 trade for the same position, for example when you add to a position on an MT5 netting account.
- **After a partial close on MT4**, MT4 gives the remaining part a new ticket number. The MT7 trade keeps the original ticket in its comment and is still managed correctly.

Security and privacy

Your MT7 password is used only to prove the MT7 account is yours, and trades can only be copied into an MT7 account registered to the e-mail you log in with.

- **Your MT7 password is never stored by the copier service.** The EA sends it over an encrypted (HTTPS) connection each time it connects. The service checks it with MT7, then discards it.
- **The password is kept in the EA's settings on your own computer.** Anyone who can open your MT4/MT5 terminal can see it there, so keep your PC or VPS protected. If you change your MT7 password, update it in the EA too.
- **Logins renew automatically.** After a successful check, the EA receives a private access key that lasts 24 hours. When it expires, the EA logs in again with the password from its settings.
- **The investor (read-only) password is not accepted.** People often share it with performance-tracking sites. Accepting it would let anyone holding it place trades on your MT7 account.
- **Password guessing is blocked.** After 10 failed attempts within an hour, logins for that account are locked for at least 30 minutes, and no more than 100 failed attempts are allowed in any 24 hours.
- **To cut access at once**, remove the EA from the chart. Its access key is cancelled immediately.

What the EA sends: your MT4/MT5 account number and broker server name, balance, equity and account currency, your open positions (symbol, direction, size, prices, SL/TP, ticket, magic number and comment), and the contract details and current price of each symbol you hold. It never sends your MT4/MT5 password, and it never trades on your MT4/MT5 account.

Troubleshooting and FAQ

The status panel and its Skipped line show what is wrong. This section explains what to do about each.

"MT7 login rejected"

Check each of these, then press F7 on the chart and click **OK** to try again:

- **Account number** is your **MT7** trading account number, not your MT4/MT5 number.
- **E-mail** is the one you log in to MT7 with.
- **Password** is your MT7 **trading** password, not the investor password. Passwords are case-sensitive.
- **The MT7 account is registered to that e-mail.** You cannot copy into someone else's account.

A trade was not copied

The **Skipped** line on the chart gives the reason after the ticket number.

Reason shown	Meaning	What to do
unknown_symbol:XYZ	No MT7 symbol matches XYZ.	Add a symbol override (see Symbol names).
symbol_map_target_unknown:XYZ	Your override names an MT7 symbol that does not exist.	Fix the spelling of the MT7 name in Symbol overrides.
price_mismatch...	The matched symbols' prices differ by more than 3%, so they are probably different instruments.	Add the correct override, or contact support.
awaiting_price_verification...	The copier is still checking prices for this symbol.	Wait. It usually clears within a minute; if the market is closed, it waits for the open.

Reason shown	Meaning	What to do
below_min_lot...	The copied size would be under 0.01 lots.	Raise Lot value, or use Fixed lots.
equity_unavailable_for_equity_ratio	Equity could not be read for Equity ratio mode.	Usually clears by itself. If not, use another lot mode.
open_failed_permanently	MT7 refused the trade several times, for example for lack of margin.	Check free margin on your MT7 account.
mirror_already_closed	This trade's MT7 copy was already closed on MT7, by you or by its SL/TP.	Nothing. It is not reopened by design.
max_positions_per_pair	This account already has 200 copied positions open.	Close some positions.

Common questions

- **Why is my MT7 entry price different?** The MT7 trade is placed almost instantly, but at MT7's own market price. Prices and spreads always differ slightly between brokers, so a small difference is normal.
- **Does it work when my computer is off?** No. Copying needs the terminal running. Use a VPS for round-the-clock copying.
- **Do I need Algo Trading / AutoTrading on?** Yes, switch it on so the EA runs normally. It still never places trades on MT4/MT5.
- **Can I test it in the Strategy Tester?** No. It only copies live positions on a real or demo account.
- **How do I stop copying?** Remove the EA from the chart. Trades already copied stay open on MT7 for you to manage.

Support and risk notice

Support. Contact Crystal Ball Markets support at support@crystalballmarkets.com. Include your MT7 account number, your MT4/MT5 account number and a screenshot of the status panel. Never send your password.

Risk notice. Trading leveraged products such as forex and CFDs carries a high level of risk and may not be suitable for all investors. Copied trades can differ from the originals in entry price, timing and size, and nothing is copied while your terminal is offline. You remain responsible for every trade on your MT7 account, so check it regularly. Past results of any account or strategy do not guarantee future results.