

MT5 EA Trader Bundle

MetaTrader 5 → NinjaTrader 8 — Setup Guide

JAO Consulting LLC · v1.00 · Beta

This bundle mirrors your MetaTrader 5 positions into NinjaTrader 8 in real time — entries, adds, reduces, and closes. It includes the MT5 Trader EA, the NinjaTrader Listener strategy, and this setup guide.

■ *This product is in beta. Please report any issues to jaoconsultingfirm@gmail.com.*

1 Prerequisites

Confirm the following before starting:

- ✓ MetaTrader 5 build 2361 or newer (Help → About in MT5)
- ✓ NinjaTrader 8 installed and connected to a live or sim account
- ✓ A demo or live MT5 account with the broker of your choice
- ✓ Your Synapse **TraderId** and **TraderApiKey** — provided after purchase
- ✓ Your Synapse **ListenerId** and **ListenerApiKey** — provided after purchase

2 Package Contents

After purchase, extract the zip file to your desired location. You will find:

- **jao_mt5_trader.mq5** — the MetaTrader 5 Expert Advisor (trader side)
- **SynapseConnect.zip** — the NinjaTrader 8 Listener strategy (listener side)
- This setup guide

3 Part A — Installing the MT5 Trader EA

3.1 Copy the EA File

Step 1 Open the MQL5 Data Folder

In MetaTrader 5: click **File** → **Open Data Folder**. A Windows Explorer window opens at MT5's data directory.

Step 2 Copy the EA file

Navigate into **MQL5** → **Experts**. Copy **jao_mt5_trader.mq5** into this folder.

Step 3 Compile the EA

In MT5, open the Navigator panel (Ctrl+N). Right-click **Expert Advisors** → **Refresh**. Double-click **jao_mt5_trader** to open it in MetaEditor. Press **F7** to compile. Confirm **0 errors** in the Toolbox panel.

■ *If you see compile errors, make sure your MT5 build is 2361 or newer. Go to Help → Check for Updates.*

3.2 Configure MT5 Permissions

Step 1 Enable Algorithmic Trading

Go to **Tools** → **Options** → **Expert Advisors**. Check **Allow algorithmic trading** and **Allow DLL imports**. Click OK.

Step 2 Enable Auto Trading toolbar button

Ensure the **Auto Trading** button in the main toolbar is green/active. If it is grey, click it once.

Step 3 Whitelist the server URL

Go to **Tools** → **Options** → **Expert Advisors**. Check **Allow WebRequest for listed URLs**. Click the green + button and add:

`https://synapse-trading.link`

`http://synapse-trading.link`

Click OK.

■ *These settings persist between MT5 restarts. You only need to do this once.*

3.3 Attach and Configure the EA

Step 1 Open a chart

Open any chart in MT5. The symbol and timeframe do not affect the EA's behaviour — it runs on a timer, not price ticks.

Step 2 Drag the EA onto the chart

In the Navigator panel, expand **Expert Advisors**. Drag **jao_mt5_trader** onto the chart, or double-click it. The EA Properties dialog opens.

Step 3 Common tab

Check **Allow live trading** and **Allow DLL imports**.

Step 4 Inputs tab — fill in your settings

See the Input Reference table in Section 5 for all available settings.

Step 5 Click OK

A smiley face icon appears on the chart when the EA is running. Check the **Experts log** tab for a connection confirmation.

4 Part B — Installing the NinjaTrader Listener Strategy

4.1 Import the Strategy

Step 1 Open NinjaTrader

Launch NinjaTrader 8 and connect to your account (live or sim).

Step 2 Import the strategy file

In the NinjaTrader Control Center, click **Tools** → **Import** → **NinjaScript Add-On**. Browse to **SynapseConnect.zip** from your extracted bundle and click Open.

Step 3 Confirm the import

NinjaTrader will compile the strategy automatically. You should see a confirmation dialog. If there are errors, ensure your NinjaTrader 8 is up to date.

■ *If prompted to restart NinjaTrader after import, do so before continuing.*

4.2 Add the Strategy to a Chart

Step 1 Open a chart

In NinjaTrader, open a chart for any instrument. Right-click the chart and select **Strategies** → **Add Strategy**.

Step 2 Select Synapse Connect

Locate **SynapseConnect** in the strategy list. Double-click it to open the configuration dialog.

Step 3 Enter your credentials

Fill in your **ListenerId**, **ListenerApiKey**, and **TraderId** (the trader you want to follow). See the Input Reference in Section 5 for all settings.

Step 4 Enable the strategy

Click **OK**. The strategy will connect to the Synapse server and begin listening for signals from your MT5 Trader EA. Check the Output window for a connection confirmation.

■ *Both the MT5 EA and the NinjaTrader strategy must be running simultaneously for trades to mirror.*

5 Input Reference

5.1 MT5 Trader EA Inputs

All fields below are required.

Input	Description	Example
TraderUserId	Your trader account user_id — provided after purchase.	joe_mt5
TraderApiKey	Your trader API key — keep this secret.	sk_abc123...
SymbolMapping	Maps MT5 symbol names to NT8 instrument names. Format: NT8name=MT5name, comma-separated for multiple.	MNQ JUN26=MNQM25
LotPerContract	How many MT5 lots equal 1 NT8 contract.	1.0
LogVerbose	Set true to log every WebSocket frame (useful for debugging).	false

5.2 NinjaTrader Listener Strategy Inputs

All fields below are required.

Input	Description	Example
ListenerId	Your listener account user_id — provided after purchase.	joe_nt

Input	Description	Example
ListenerApiKey	Your listener API key — keep this secret.	sk_def456...
TraderId	The trader user_id to follow — your MT5 trader id.	joe_mt5
LotMultiplier	Scale factor for position size. 1.0 = full size, 0.5 = half.	1.0
EnableTrading	Master on/off switch. Set false to receive signals without placing trades.	true

6 Symbol Mapping

MT5 and NinjaTrader use different names for the same instrument. The **SymbolMapping** input in the MT5 EA tells the server how to translate between them.

Format:

NT8name=MT5name ,NT8name2=MT5name2

NT8 Instrument	MT5 Symbol	Notes
MNQ JUN26	MNQM25	Micro Nasdaq futures
ES SEP26	ESU26	E-mini S&P 500 futures
NQ SEP26	NQU26	Full Nasdaq futures

■ *Contracts roll quarterly. The EA will warn you 7 days before a contract expiry so you can update SymbolMapping in time.*

7 Verifying the Connection

7.1 MT5 Trader EA

After attaching the EA, open the **Experts** log tab at the bottom of MT5. You should see:

```
[Trader] Id=joe_mt5 | Mapping=MNQ JUN26=MNQM25 | LotPerContract=1.0
[Trader] Connecting to synapse-trading.link:8000/ws/joe_mt5
[Trader] Connected and registered as 'joe_mt5'
```

When a position changes in MT5, the EA sends a signal:

```
[Trader] Position change MNQM25: 0 → 2 | Sending signal to server
```

7.2 NinjaTrader Listener Strategy

In NinjaTrader, open the **Output** window (Tools → Output Window). After enabling the strategy you should see:

```
[SynapseConnect] Connecting to synapse-trading.link:8000/ws/joe_nt
[SynapseConnect] Connected — following 'joe_mt5'
```

When a signal arrives from MT5:

```
[SynapseConnect] Signal | MNQ JUN26 | action=BUY | position=2
[SynapseConnect] Reconcile MNQ JUN26 | now=0 → target=2
```

■ If either side shows 'Read error — reconnecting', it will automatically reconnect and sync back to the current MT5 position. No action needed unless the error persists.

8 Troubleshooting

Error / Symptom	Fix
SocketConnect failed: 4014	Server URL not whitelisted in MT5. Go to Tools → Options → Expert Advisors → Allow WebRequest and add the URL.
TLS handshake failed: 5274	You used wss:// but the server does not have TLS on that port. Change ServerUrl to ws://.
Upgrade rejected (401 / 1008)	Wrong API key or user_id. Double-check TraderApiKey and TraderUserId match your account exactly.
No mapping for 'MNQM25'	Add the symbol pair to SymbolMapping. Format: NT8name=MT5name (e.g. MNQ JUN26=MNQM25).
NinjaTrader Output shows no connection	Ensure SynapseConnect strategy is enabled (green checkbox) and that your ListenerId/TraderId match the MT5 EA TraderUserId.
MT5 EA smiley is grey / sad	Algorithmic trading is disabled. Click the Auto Trading button in the toolbar.
Expiry warning in MT5 log	A futures contract is expiring within 7 days. Update SymbolMapping in both the MT5 EA and NinjaTrader strategy to the next contract.

9 Quick-Start Checklist

MT5 Trader EA

- ✓ MT5 build 2361 or newer
- ✓ jao_mt5_trader.mq5 copied to MQL5/Experts and compiled with 0 errors
- ✓ Tools → Options → Expert Advisors: Allow algorithmic trading enabled
- ✓ synapse-trading.link added to WebRequest whitelist
- ✓ Auto Trading button in toolbar is green
- ✓ TraderUserId and TraderApiKey entered correctly
- ✓ SymbolMapping set to your active contracts (e.g. MNQ JUN26=MNQM25)
- ✓ Experts log shows 'Connected and registered as...'

NinjaTrader Listener Strategy

- ✓ SynapseConnect.zip imported and compiled in NinjaTrader 8

- ✓ Strategy added to a chart and enabled
- ✓ ListenerId, ListenerApiKey, and TraderId entered correctly
- ✓ TraderId matches your MT5 EA's TraderUserId
- ✓ Output window shows 'Connected — following...'

Questions or issues? Email jaoconsultingfirm@gmail.com