Signal Lynx
Lynx-Relay Product Guide

This guide is evergreen and applies to all modern releases of the Lynx-Relay application. It will be updated periodically to reflect major feature additions and changes in functionality.

Applicable To: *Windows Installations (64-bit)*

Document Updated: *December 24, 2025*

Overview

Welcome to the official Product Guide for Lynx-Relay, the private, self-hosted command center for automated cryptocurrency trading from Signal Lynx. This comprehensive manual is designed to help you install, configure, and effectively utilize Lynx-Relay to turn your trading strategies into live, automated orders with unparalleled security and privacy.

Table of Contents

---

1. Introduction to Signal Lynx Webhook Engine and Monitor

1.1. Welcome

Welcome to the Signal Lynx Webhook Engine and Monitor Product Guide. This comprehensive manual is designed to help you install, configure, and effectively utilize your Signal Lynx software for automated algorithmic trading. We've built Signal Lynx to provide a powerful, secure, and user-friendly platform for executing trades based on alerts from TradingView.com or other custom webhook sources.

1.2. Product Overview

The Signal Lynx Webhook Engine and Monitor is a Windows desktop application that serves as the core of your automated trading setup. It operates in the background, running a secure local Flask web server (powered by Waitress) that listens for incoming JSON payloads from your configured webhook alerts. Upon receiving an alert, the engine interprets the data, processes your instructions, and places trades on supported centralized exchanges.

Key functions of Signal Lynx include:

- **Webhook Listening:** Continuously monitors a local endpoint for incoming trading signals.
- **Secure Validation:** Authenticates incoming webhooks using a secret key stored in an encrypted vault.
- **Order Execution:** Supports a wide range of order types, including market, limit, post-only, and advanced immediate-or-cancel (IOC) orders.
- **Multi-Exchange Compatibility:** Seamlessly integrates with Kraken, Gemini, and Binance.US.
- **Risk Mitigation:** Incorporates sophisticated logic to monitor trade execution, re-issue orders if not fully filled, and manage potential risks.
- **Real-time Monitoring:** Provides a comprehensive Graphical User Interface (GUI) to view real-time status, trade history, alert logs, and exchange connectivity.
- **Encrypted Storage (Vault):** Safely stores your sensitive API keys and license information using robust encryption, secured by your master password.
- **Telegram Notifications:** Optionally sends instant updates on trades, errors, and critical system events directly to your Telegram channel or group.

With Signal Lynx, you gain a robust tool for executing your trading strategies with precision and confidence, all managed through an intuitive desktop interface.

1. Introduction to Lynx-Relay
1.1. Our Philosophy: Your Edge, Your Keys

Welcome to the official Product Guide for Lynx-Relay. We built the Signal Lynx suite of tools on a foundational principle of the digital asset world: **"Not Your Keys, Not Your Coins."** While others may ask you to trust their cloud servers with your sensitive exchange API keys, we believe that true security means you never have to.

Our entire ecosystem is designed to run on your hardware. Lynx-Relay provides a powerful, secure, and user-friendly platform for executing trades based on alerts from TradingView or other custom webhook sources, ensuring your API keys and your strategies remain yours alone.

1.2. Product Overview: Your Private Trading Executor

Lynx-Relay is a Windows desktop application that serves as the core of your automated trading setup. It operates securely in the background, running a local web server that listens for incoming

JSON payloads from your configured webhook alerts. Upon receiving a validated signal, the engine interprets your instructions and communicates directly with the exchange to place and manage your trades.

Key functions of Lynx-Relay include:

- **Secure Webhook Reception:** Continuously monitors a local, SSL-encrypted endpoint for incoming trading signals, fortified by the Signal Shield companion installer.
- **Secure Validation:** Authenticates every incoming webhook using a secret key. Only alerts containing your unique secret are processed, preventing unauthorized requests.
- **Advanced Order Execution:** Supports a wide range of order types, including market, limit, post-only, and advanced immediate-or-cancel (IOC) orders to give you precise control over your execution.
- **Multi-Exchange Compatibility:** Seamlessly integrates directly with major spot exchanges, including **Kraken, Gemini, and Binance.US**.
- **Robust Risk Mitigation:** Incorporates sophisticated logic to monitor trade execution. It can automatically re-issue orders that are not filled in a timely manner, protecting you from partially-filled trades and "stuck" orders.
- **Mission Control GUI:** Provides a comprehensive Graphical User Interface (GUI) for real-time status monitoring, a complete audit of trade history, alert logs, and live exchange connectivity status.
- **The Vault: Fort Knox for Your Keys:** Safely stores your sensitive API keys, secrets, and license information in a local file protected by military-grade encryption. The entire application remains locked and inert until you provide your unique master password.
- **Instant Telegram Notifications:** Optionally sends real-time, "eyes-on, anywhere" updates on trades, errors, and critical system events directly to your Telegram channel or group.

With Lynx-Relay, you gain a professional-grade tool for executing your trading strategies with precision and confidence, all managed through an intuitive desktop interface that you control.

1.3. About This Guide & The New Workflow

This guide is the single source of truth for operating Lynx-Relay and is tailored for users of all technical levels. While the underlying technology is complex, we have explained all features and processes in plain language. You do not need any programming experience to operate Lynx-Relay.

Important: The Signal Lynx Workflow

Initial system setup and the ongoing operation of the trading bot are now handled by two distinct but complementary products. Understanding their roles is crucial for success.

1. **Signal Shield (The Fortress):** This is your **one-click setup and security installer.** Its sole purpose is to harden and prime your PC for automation, handling the complex server configuration so you don't have to. It installs the reverse proxy (NGINX), configures firewall rules, generates SSL certificates, and sets up the necessary Windows services. **You must run Signal Shield before installing and running Lynx-Relay.**
2. **Lynx-Relay (The Executor):** This is your **trading command center.** This guide focuses exclusively on the installation, configuration, and day-to-day operation of the Lynx-Relay application itself, assuming Signal Shield has already prepared your system.

---

2. Key Features at a Glance

Lynx-Relay is engineered with a suite of powerful features designed for a secure, efficient, and fully autonomous trading experience. From military-grade encryption to sophisticated order management, every component is built to give you a professional edge.

2.1. GUI-Based Mission Control

Lynx-Relay provides total situational awareness through a fully graphical interface. There is no need for command-line interaction during normal operation. The clean, intuitive layout gives you one-click access to your vault, trade history, and connectivity hub, putting all critical information at your fingertips.

2.2. Direct Multi-Exchange Support

Execute your strategies across multiple trading venues from a single, secure interface. Lynx-Relay communicates directly with the exchange APIs, ensuring there are zero middlemen and zero compromises. Native support includes:

- **Kraken**
- **Gemini**
- **Binance.US**
- **Binance Global (currently in Beta for international customers)**

2.3. The Vault: Fort Knox for Your Credentials

Security is our primary directive. Your sensitive API keys, webhook secrets, and license information never leave your machine.

- **Military-Grade Encryption:** All sensitive data is stored in a local file (`SignalLynx_Vault.encrypted`) protected by industry-standard cryptographic techniques.
- **Master Password Protection:** The entire application remains inert and locked until you provide your unique master password. If you close the application, your keys are immediately secured.

2.4. Actionable Intel: Real-Time Monitoring

The Mission Control GUI provides dedicated tabs to give you a complete, live picture of your trading operation.

- **Notifications:** A real-time console for all important application events, warnings, and successful operations. Mirrors all messages sent to Telegram.
- **Alert History:** A complete signal audit trail, providing a timestamped log of every webhook received and its final outcome.
- **Trade History:** Live P&L tracking. Monitor your open positions and review the profitability of every closed trade to sharpen your strategies.
- **Exchanges:** Run an instant comms check. A simple, color-coded health status gives you an immediate 'go' or 'no-go' on every exchange connection, helping you eliminate guesswork.
- **Error Log:** Access deep diagnostics. This tab provides raw, detailed technical logs with full context for any errors, crucial for advanced troubleshooting.

2.5. Advanced Trade Logic & Automated Protections

Lynx-Relay goes far beyond simple "fire and forget" order placement. Its intelligent execution logic is designed to enhance fills and mitigate risk.

- **Flexible Order Sizing:** Define trade size with precision using an exact **quantity** (0.01 BTC), a **percentage** of your available balance (50% of USD), or a specific notional **value** ($1000 of BTC).
- **Post-Only Limit Orders:** Ensure you are a "maker" by placing limit orders that will be canceled if they would execute immediately as a "taker" trade, helping you avoid taker fees.
- **IOC Order Simulation:** Achieve market-like execution on exchanges that lack native market orders. Lynx-Relay strategically places Immediate-Or-Cancel (IOC) limit orders to ensure fast fills while minimizing slippage.
- **Automated Fill Protection & Order Reissue:** For non-market orders, the bot actively monitors fill status. If an order isn't filled within a specified time, it can automatically cancel

the remainder and re-issue it at a more favorable price, or ultimately fall back to a market-like order to ensure the trade is completed.

- **Minimum Order Safety:** Automatically validates that your requested order size meets the exchange's minimum requirements for the specific trading pair, preventing common "order too small" errors.
- **Integrated Stop-Loss/Take-Profit (Kraken):** For supported exchanges like Kraken, you can include stop-loss and take-profit parameters directly in your webhook payload for conditional close orders.

2.6. Eyes-On, Anywhere: Telegram Notifications

Stay in command of your strategies 24/7, no matter where you are. Lynx-Relay can send instant push notifications to your phone for every key action your bot takes, giving you a constant pulse on your automated trading. Get real-time alerts for:

- Webhook receipt confirmations
- New order requests and their parameters
- Successful order placements and final fills
- Risk mitigation actions and order re-issues
- Critical errors, warnings, and connectivity issues
- Application startup and shutdown events

---

3. Deployment: From Installation to "Online"

This section provides a complete, step-by-step guide to get you from a fresh installation to a fully operational and licensed trading bot. Follow these steps in order.

3.1. Prerequisite: Fortify Your Rig with Signal Shield

This is the mandatory first step. Before installing or launching Lynx-Relay, you must prepare your system using the **Signal Shield** installer. Signal Shield is your one-click configurator, automatically performing the complex security and server configurations required for Lynx-Relay to function securely and reliably.

If you have not yet run Signal Shield, please stop and refer to the **Signal Shield Product Guide (ReadMe)** first. Lynx-Relay depends on a successful Signal Shield configuration to receive external signals.

3.2. Step 1: Arm the Relay (First-Time Installation & Vault Creation)

Once your rig has been fortified, you can install and launch Lynx-Relay for the first time. This initial launch involves a unique, one-time setup process for your secure Vault.

1. **Run the Installer:** Double-click the Lynx-Relay installer (`.exe`) and follow the on-screen prompts of the installation wizard.
2. **Launch Lynx-Relay:** Open the application using the desktop shortcut.
3. **Accept the EULA:** Upon the very first launch, you will be presented with the End User License Agreement (EULA). You must read and accept the terms to proceed.
    4. **Create Your Master Password:** After accepting the EULA, you will be prompted to create your master password.
    CRITICAL: Master Password Security Policy
        ○ **One-Time Setup:** This password is set **only once** during this initial process.
        ○ **No Recovery:** For maximum security, this password can **never be recovered**. We do not have access to it.
        ○ **"Scorched Earth" Reset:** If you forget your password, your only option is to perform a reset by deleting the `SignalLynx_Vault.encrypted` file from the application directory. You will then have to restart Lynx-Relay and re-enter all your credentials from scratch. This is a core security feature.
5. **Initial Application State:** Once you set your password, Lynx-Relay will complete its initialization and the main application window, **"Mission Control,"** will open. You will observe two things immediately:
    ○ The status indicator in the upper-right corner will show **"No Valid License"**.
    ○ A dialog box will appear, prompting you to configure the application by entering your credentials.

3.3. Step 2: Configure the Relay (First-Time Vault Setup)

With the application running, it's time to load your license and exchange keys into the secure Vault.

1. **Access The Vault:** Click the **"Update Keys"** button in the top-right of Mission Control. You will be prompted to enter your newly created master password again to unlock the configuration screen, which we call **The Vault**.
2. **Enter Your Credentials:** You will be presented with a window with two tabs. Fill out the required information in both. A detailed explanation of every field is available in Section 4 of this guide.
    ○ In the **"General & Licensing"** tab, enter your **Signal Lynx License Key** and **Webhook Secret**. You can also optionally enter your Telegram credentials at this time.

- In the **"Exchange API Accounts"** tab, click **"Add Another Account"** and enter the **Account Name**, **API Key**, and **API Secret** for each exchange you wish to use.

3. **Save and Encrypt:** Once you have entered all your information, click the **"Save & Reload Server Keys"** button.
   Please be patient. When you click save, Lynx-Relay encrypts all the data you just entered and securely reloads the backend server. This process can take a few seconds. The Vault window will close automatically upon successful completion.

3.4. Step 3: Verify "Mission Control" is Fully Operational

After you unlock the Vault and return to the main Mission Control dashboard, Lynx-Relay immediately runs its first health checks: it pulls your current license display status, queries the local server `/status`, tests exchange connections, and then starts the periodic timers for ongoing updates.

Your goal is to reach a **green** overall status (and to confirm the notifications pipeline is alive).

A) Check the Overall System Status (top-right)

Mission Control shows a stoplight-style indicator made of:

- **Status:** `Status: <state>` with a colored dot
- **Subscription Status:** `Subscription Status: <state>`
- **Next Due/Expiry:** `Next Due/Expiry: <date/info>`

Overall Status meanings (what you'll actually see in the current build):

🟢 **Connected** — This is your "good to go" state. It means your license is considered valid *and* at least one configured exchange connection is OK.
🟢 **Connected (Restricted)** — The app is running normally, but the only exchanges present appear **blocked** (example: geo/legal restrictions). It stays green on purpose to avoid false alarms.

🟡 **No Accounts** — License looks valid, but there are **zero exchange accounts configured** yet.
🟡 **Pending Configuration** — License looks valid, but nothing is successfully connected yet and the bot is effectively waiting on correct/complete setup.
🟡 **Partial Connection** — At least one exchange is OK, but one or more exchanges have a **real failure or a config problem**, so trading capability may be incomplete.

🔴 **Connection Failed** — License looks valid, but **no exchanges are OK** and at least one connection attempt is a hard failure.

🔴 **License Invalid** — Your subscription display status is not being recognized as valid (the UI treats **Active/Trial/Developer** as valid).

🔴 **Server Unreachable** — The GUI could not reach the local server's `/status` endpoint (server not started, blocked, or crashed).

What to do next based on what you see:

- If you're **green (Connected / Connected (Restricted))** → you're operational.
- If you're **yellow** → go to the **Exchanges** tab and use **Test Connections** to see which account(s) need attention.
  WebhookBotR2_X58B_FC-3_AllinOne…
- If you're **red** → go straight to **Notifications** and **Error Log** (below), then follow the Troubleshooting section.

B) Read the Notifications Tab (your live operational feed)

The **Notifications** tab is driven by the internal `telegram` logger (it's the same message stream used by the Telegram notification pipeline).
That means:

- If the app says it did something important (startup milestones, key events, trade actions, etc.), you'll typically see it here.
- This tab is the fastest way to confirm the system is "talking" during startup and while running.

C) Confirm Telegram Mirroring (optional, remote)

If you've configured valid **Telegram Bot Token** and **Chat ID**, those same notification messages are also queued and sent to Telegram.
If Telegram isn't configured (or placeholders are present), the bot will **still** log the messages locally in Notifications, but it will **not** send them remotely.

D) Use the Error Log Tab for "real" breakage

The **Error Log** tab is reserved for **CRITICAL** issues captured from the root logger, so it should stay relatively quiet during normal operation.

If your overall status remains **Server Unreachable** for more than ~30 seconds after the GUI appears, or you see repeating initialization/credential errors in Notifications, jump to the **Troubleshooting** section of this guide.

---

4. Configuring Lynx-Relay: A Deep Dive into The Vault

The Vault is the central command center for all your sensitive credentials. This section provides a detailed reference for every setting you can manage.

4.1. Accessing and Operating The Vault

- **Access: From the main Mission Control window, click the "Update Keys" button and enter your master password.**
- **Saving:** To apply any changes, you must click **"Save & Reload Server Keys"**. This button performs several critical actions:
    - It saves all current settings to your encrypted `SignalLynx_Vault.encrypted` file.
    - It signals the live backend server to securely reload all configurations (API keys, secrets, license info).
    - The server then re-validates your license and re-fetches the latest trading pair information from the exchanges.
- **Canceling:** To discard any changes made since you last saved, click **"Cancel"**. The Vault window will close, and no changes will be applied.

4.2. The "General & Licensing" Tab

This tab manages universal application settings.

- **Description: Your master password. While it cannot be recovered, you can change it here at any time, provided you know the current password.**
- **Usage: To change your password, simply type the new password in both fields. Upon saving, the entire `SignalLynx_Vault.encrypted` file will be re-encrypted with the new password.**
- **Description: A secret phrase that acts as a password for your incoming webhooks. It ensures that only alerts sent by you are processed by Lynx-Relay.**
- **Usage: The value entered here must exactly match the `secret` field in the JSON payload of your TradingView alerts.**
- **Recommendation: Choose a long, random string for maximum security.**

- **Description: Your unique software license key, required to activate the trading functionalities of Lynx-Relay.**
- **Usage: Paste the license key provided to you after purchase. Your key can be found on your Signal Lynx account page: www.signallynx.com/account/downloads.**
- **Description: The credentials for your personal Telegram bot, used for sending real-time notifications from Lynx-Relay to your phone or desktop.**
- **Usage: These fields are optional but highly recommended for remote monitoring. A complete guide on how to get these values is in the next section.**

4.3. The "Exchange API Accounts" Tab

This tab is where you will manage the API credentials for all your exchange accounts.

The table columns are:

- **Account Name: A unique, custom name for this specific API account (e.g., `MyKrakenBot`, `BinanceUS-Sub1`). This is the name you will reference in the `account` field of your webhook payloads.**
- **API Key: Your public API key provided by the exchange.**
- **API Secret: Your private API secret provided by the exchange. This is highly sensitive and should never be shared.**
- **Exchange: A dropdown menu to select the exchange this API key pair belongs to (KRAKEN, GEMINI, or BINANCEUS).**
    1. **Click the Add Another Account button. A new blank row will appear.**
    2. **Enter a unique Account Name.**
    3. **Paste your API Key and API Secret into the corresponding fields.**
    4. **Select the correct Exchange type from the dropdown.**
    5. **Repeat for any other accounts.**
    1. **Click on any cell in the row of the account you wish to delete to select it.**
    2. **Click the Delete Selected Account button. The row will be removed.**

---

5. Eyes-On, Anywhere: Setting Up Telegram Notifications

This feature is invaluable for remote monitoring, giving you a 24/7 pulse on your trading bot's activity. While the setup has a few steps, this guide provides a clear, step-by-step process.

5.1. Step 1: Create Your Bot with BotFather

1. **Open the Telegram application (desktop or mobile).**

2. In the search bar, type `@BotFather` and select the official, verified account (it will have a blue checkmark).
3. Start a chat and send the command: `/newbot`
4. BotFather will ask for a display name. This is a friendly name, like `My Lynx Bot Monitor`.
5. Next, it will ask for a username. This username must be unique and must end in . For example: `MyLynxTradeBot`.

5.2. Step 2: Get Your Bot Token

Once you've chosen a valid username, BotFather will reply with a confirmation message containing your HTTP API token. It's a long string of numbers and letters separated by a colon (e.g., `1234567890:ABC-DEF1234ghIkl-zyx57W2v1u123ew11`).

Copy this entire token string. This is your

5.3. Step 3: Find Your Chat ID

The Chat ID is the unique address of the chat where your bot will send messages. The method differs slightly depending on where you want to receive messages.

1. In Telegram's search bar, find your bot by its username (e.g., `@MyLynxTradeBot`) and start a chat with it.
2. Send any message to your bot (e.g., "hello").
3. Now, search for the helper bot `@RawDataBot`.
4. Forward the message you just sent *from your bot's chat* to the `@RawDataBot` chat.
5. `@RawDataBot` will reply with a block of JSON text. Find the following section: `"chat": {"id": XXXXXXXXX, ...}`. The number `XXXXXXXXX` is your private Chat ID.
1. Create a new group in Telegram and give it a name.
2. Add your new bot (e.g., `@MyLynxTradeBot`) to the group as a member.
3. Add the helper bot `@RawDataBot` to the same group.
4. In the group, type any message (e.g., "test").
5. `@RawDataBot` will immediately post a JSON message in the group. Find the section: `"chat": {"id": -YYYYYYYYYYYY, ...}`. The long negative number `-YYYYYYYYYYYY` is your group's Chat ID.
6. You can now remove `@RawDataBot` from the group if you wish.
1. Create a new channel in Telegram. Make it a Private Channel.
2. Go to the Channel's Info -> Administrators -> Add Administrator.

3. **Search for your bot's username and add it. Grant it the permission to "Post Messages".**
4. **Post any message in your new channel.**
5. **Forward that message from your channel to the `@RawDataBot` chat.**
6. `@RawDataBot` **will reply with JSON. Find the section:** `"chat": {"id": -zzzzzzzzzzzz, ...}`**. This long negative number is your channel's Chat ID.**

5.4. Step 4: Enter Credentials into The Vault

1. **Return to Lynx-Relay and open The Vault.**
2. **Go to the "General & Licensing" tab.**
3. **Paste your Bot Token into the "Telegram Bot Token" field.**
4. **Paste your Chat ID into the "Telegram Chat ID" field.**
5. **Click "Save & Reload Server Keys". You should immediately receive a confirmation message in your configured Telegram chat.**
   ○ **Troubleshooting: If you don't receive a message, double-check your token and Chat ID for accuracy. For groups and channels, ensure your bot has been added as a member or administrator with the correct permissions.**

5.5. Types of Notifications: What to Expect

Once configured, Lynx-Relay will send a variety of concise, emoji-enhanced notifications to keep you informed.

- ✅ `Bot Initialized & License Valid` **(on successful startup)**
- 🔴 `Bot Shutting Down Gracefully...` **(on application exit)**
- ❌ `CRITICAL: Bot Initialized BUT LICENSE IS CURRENTLY INVALID OR UNREACHABLE.`
- 🔄 `Secrets Reloaded (via API)` **(after saving in the Vault)**
- ⚠️ `Secrets reloaded, but pair refresh failed.`
- 🔔 `Webhook Received`
- 📜 `**New Order Request**` **(with order details)**
- ⏳ `Wait Complete: Waited X seconds.`
- 📈 `Placing Order: BUY LIMIT order for BTCUSD`
- ✅ `Order Placed: BUY LIMIT order for BTCUSD`
- 💰 `Order Filled via Limit` **(on successful fill)**
- ⚠️ `Order Mitigation In Process` **(when Fill Protection kicks in)**
- ⚠️ `Fallback: Placing Limit Order for Remaining Volume`

- ✅ `Fallback Limit Order Placed`
- ✅ `Fallback Market Order Placed`
- ℹ️ `No Remaining Volume after mitigation.`
- 🗄️ `Cancelling orders for pair: ETHUSD`
- ✅ `Orders Cancelled for ETHUSD`
- ❌ `Error: Failed to place order: Insufficient Balance`
- 🔴 `Order Skipped: Insufficient Balance`
- ❌ `Error: Unsupported trading pair.`
- ⚠️ `Duplicate Webhook Skipped`
- 🔴 `Critical Worker Setup Error for MyKraken: Missing API key.`

---

6. Operating Mission Control: A Tour of the GUI

Once your system is configured and online, the Mission Control dashboard is your hub for monitoring all activity. The interface is organized into several key tabs, each designed to answer specific questions about your bot's performance.

6.1. The Notifications Tab (Your Real-Time Console)

- **Purpose: This is your primary, live feed of all application events. It provides a running log of everything your bot is doing, from receiving webhooks to placing orders and reporting errors.**
- **Content: Displays timestamped, human-readable messages for successful operations, non-critical warnings, and status changes. This log is a perfect mirror of the messages sent to your Telegram channel.**

6.2. The Alert History Tab (Your Signal Audit Trail)

- **Purpose: To provide a complete, historical record of every single webhook alert that has been processed by Lynx-Relay. If you want to know "Did my alert from 2 AM arrive and what happened to it?", this is the place to look.**
- **Content: A table listing every received alert, including the timestamp, trading pair, order type, and the final `End Status` (e.g., "Filled," "Error: Insufficient Balance," "Dry Run").**
- **Action: Click the "Refresh" button in the top-right of the tab to reload the latest data from the local database.**

6.3. The History (Trade History) Tab (Your P&L Tracker)

- **Purpose: To track your trading performance and review the outcomes of your strategies. This tab consolidates trade data from all your connected exchanges into a single interface.**
- **Content: Displays a record of your trading positions. For `Closed` trades, it shows the calculated profit or loss percentage. For `Open` positions, it tracks key metrics like the current maximum drawdown.**
- **Action:** Click the **"Refresh"** button in the top-right of the tab to reload the latest data from the local database.

6.4. The Exchanges Tab (Your Comms Check)

- **Purpose: To give you an at-a-glance health check on your connections to each exchange. This is the first place you should look if you have a**
- **Content: Lists every exchange account configured in your Vault. Each account has a clear, color-coded `API Status`:**
  - **OK (Green): Connection is successful.**
  - **FAIL (Red): Connection failed. Hovering your mouse over the "FAIL" status will show a tooltip with the specific error from the exchange (e.g., "Incorrect API Key," "Connection refused").**
-
- **Action: The "Test Connections" button allows you to manually re-run the connectivity test for all configured accounts at any time.**

6.5. The Error Log Tab (Your Deep Diagnostic Tool)

- **Purpose: To provide the most detailed technical information for troubleshooting unexpected behavior or critical failures. While the Notifications tab gives you a summary, the Error Log gives you the full story.**
- **Content: Displays raw, timestamped log messages, including full Python tracebacks for application errors and complete, unfiltered error responses from exchange APIs. For many common issues, it also provides a "simplified error" message to help you quickly understand the root cause.**

Section 7: Go Weapons-Hot: Generating Webhooks

With your system fully configured and Mission Control online, the final step is to point your TradingView alerts to Lynx-Relay.

7.1. Stop Writing JSON by Hand: Use the Webhook Configurator

In the past, creating the JSON payload for a webhook was a manual, error-prone process. We have eliminated this complexity with the official Signal Lynx Webhook Configurator. This is now the standard, recommended way to generate your webhook messages.

- **Access: You can find the configurator in your account dashboard:**
  https://www.signallynx.com/account/webhook-configurator
- **How It Works: This intuitive online tool allows you to build your desired action step-by-step.**
  - **Select the Account Name you configured in The Vault.**
  - **Choose an Action (e.g., `place_order`, `cancel_orders`).**
  - **Fill in the order parameters (pair, order type, size, etc.).**
-
- **Key Advantages:**
  - **Exchange-Aware Intelligence: The options presented are automatically tailored to your selected exchange (Kraken, Gemini, or Binance.US), preventing you from building an invalid command.**
  - **Build Multi-Step Attack Plans: Easily chain commands together, like `cancel_orders → wait → place_order`, to execute complex strategies from a single alert.**
  - **Live Preview & Copy: The tool generates the perfect, error-free JSON payload in real-time. Simply click the "Copy" button.**
-

7.2. Linking TradingView to Lynx-Relay

1. **In the Webhook Configurator, generate the JSON for your desired action and copy it.**
2. **In TradingView, create a new alert.**
3. **In the "Notifications" tab of the alert settings, enable the "Webhook URL" option. Your unique URL is provided by the Signal Shield installer.**
4. **Paste the copied JSON into the "Message" box.**
5. **Save the alert.**

When the alert triggers, TradingView will send the JSON message to your secure URL, where it will be processed by Lynx-Relay.

Section 8: Understanding Licensing and Data Security

(This new section logically follows the core setup guides. It answers important user questions about how the product works under the hood.)

8.1. The License Validation Process

Lynx-Relay is a subscription-based product that relies on secure license verification. This process is designed to be robust and resilient to network issues.

- **Online Validation (Primary): Upon startup and periodically thereafter, Lynx-Relay connects to the Signal Lynx License Manager to validate your license key. If successful, it receives a cryptographically signed token containing your subscription status. This token is then encrypted with your master password and cached securely on your local machine.**
- **Offline Validation (Fallback): If the application cannot reach the license server (due to an internet outage on your end or ours), it will attempt to use the most recently cached valid token. It decrypts the token locally and re-verifies its cryptographic signature and expiration date. If the token is still valid, Lynx-Relay will continue to operate normally, ensuring that temporary network problems do not interrupt your trading.**

8.2. Our Commitment to Your Data Privacy and Security

Our entire business is built on the principle of user sovereignty over their data and credentials.

- **No Personal Data Shared: Lynx-Relay never transmits your exchange API keys, trading history, or personal identifiable information to our servers. The only data sent for licensing purposes is your License Key, a unique Machine ID, and the product identifier.**
- **Encrypted At-Rest: All sensitive data in your Vault (`SignalLynx_Vault.encrypted`) and the local license token cache are encrypted using industry-standard cryptographic techniques derived from your master password.**
- **Anti-Tampering: License tokens received from our server are cryptographically signed. This signature is verified by the application, preventing any malicious modification of your license data.**
- **Unauthorized Sharing Prohibited: Your license key is tied to your usage and Machine ID. Unauthorized distribution or sharing of your license key or the software is prohibited and may result in license invalidation.**

9. The Lynx-Relay Trade Execution Engine

This is where your TradingView alerts become live orders. The **Webhook Configurator** is the easiest way to build commands, but understanding the building blocks below will help you design smarter strategies, reduce fees, and troubleshoot confidently.

9.1 Trading Fundamentals (How every order is decided)

Maker vs. Taker (fees & speed)

- **Taker** = you hit the book *now* (fast execution, typically higher fees).

- **Maker** = you rest a limit on the book (slower, typically lower fees).
  Lynx-Relay gives you precise control over this via your chosen **ordertype** (see below).

Order size — three ways (choose one)

- **Quantity**: exact base amount (e.g., `0.01 BTC`)

- **Percentage**: percent of available funds (buy uses quote balance; sell uses base balance)

- **Value**: notional amount in the quote currency (e.g., `$1,000`)

Under the hood, Lynx-Relay calculates a tradable volume that respects exchange minimums, step sizes, and notional requirements. It automatically adjusts or rejects orders when below exchange thresholds, and never oversells more than you actually hold.

Examples (sizing methods)

Quantity

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyKraken",
  "actions": [
```

```
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 25000,
        "quantity": 0.01
      }
    }
  ]
}
```

Percentage

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyBinanceUS",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 1800,
        "percentage": 50
      }
    }
  ]
}
```

Value

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
```

```
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 25500,
        "value": 1000
      }
    }
  ]
}
```

9.2 Core Order Types ("ordertype")

Market — "Get me in/out immediately."
 Executes at the best available price. On exchanges without native market via API (e.g., Kraken/Gemini), Lynx-Relay simulates a market fill by placing an **immediate-or-cancel (IOC)** limit against the book. Fastest path to execution; typically higher fees.

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyBinanceUS",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "buy",
        "ordertype": "market",
        "quantity": 0.01
      }
    }
  ]
}
```

Limit — "Only at my price (or better)."
 Places your order at a specific price. Often qualifies for maker fees.

```json
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyKraken",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "sell",
        "ordertype": "limit",
        "price": 1800,
        "quantity": 0.5
      }
    }
  ]
}
```

Limit (auto-discover price) — omit `price` to start at best bid/ask so your order is realistic and more fill-friendly.

```json
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyKraken",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "sell",
        "ordertype": "limit",
        "quantity": 0.5
      }
    }
  ]
}
```

Post-Only (modifier to Limit)
 Guarantees maker behavior by rejecting the order if it would fill immediately as a taker.
Essential for fee-sensitive strategies.

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 25000,
        "quantity": 0.01,
        "use_post_only": true
      }
    }
  ]
}
```

9.3 Advanced/Proprietary Execution

IOC from Orderbook — "Behave like market, but with price protection."
 Lynx-Relay identifies the top of book and attempts to fill instantly; any remainder cancels
immediately. Ideal when you want market-like speed without leaving an order resting.

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "ioc_from_orderbook",
```

```
        "quantity": 1
      }
    }
  ]
}
```

IOC Sweep from Orderbook — "I have size — sweep multiple levels."
Designed for larger orders or thin books: Lynx-Relay interrogates several price levels and aggressively sweeps to maximize filled quantity, canceling anything unfilled right away. Prioritizes execution over minimal price movement.

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "ioc_sweep_from_orderbook",
        "quantity": 1
      }
    }
  ]
}
```

9.4 Order Modifiers (risk & exchange-specific behavior)

Stop-Loss / Take-Profit (Kraken)
Add protective exit levels that the exchange will place automatically if your primary order fills. These are exchange-resident "conditional closes."
Note: If both `stop_loss` and `take_profit` are sent, **stop_loss is used and TP is ignored**. On Gemini/Binance.US these fields are ignored on the same order (use separate orders if needed).

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
```

```
  "account": "MyKraken",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 2000,
        "quantity": 0.2,
        "stop_loss": 1800,
        "take_profit": 2200
      }
    }
  ]
}
```

(Optional) Per-Order Delay, Deviation Guard, and Dry-Run

- `delay`: seconds to wait before placing this order.

- `max_deviation`: % guardrail vs. current price (skip if exceeded).

- `buffer_percentage`: tweak auto-discovered price by ±% (esp. with post-only).

- `dry_run`: `true` simulates the order without placing it.

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyKraken",
  "max_deviation": 1.5,
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "buy",
        "ordertype": "limit",
```

```
      "quantity": 0.02,
      "delay": 3,
      "buffer_percentage": 0.05,
      "dry_run": false
    }
  }
 ]
}
```

9.5 Utility Actions (not orders, but essential tools)

cancel_orders — "Clear the slate."
Cancels all open orders for a pair on the selected account before you place your next action(s).

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyKraken",
  "actions": [
    {
      "action": "cancel_orders",
      "pair": "ETHUSD"
    }
  ]
}
```

wait — "Pause between steps."
Introduces a short delay (e.g., let cancellations settle or allow the book to move) before the next action in your sequence.

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyBinanceUS",
  "actions": [
    {
      "action": "wait",
      "duration": 10
    }
```

```
    ]
}
```

Emergency Flatten (recipe; replaces "panic")

There is no dedicated `panic` action in X57. Use this playbook to instantly flatten a position: `cancel_orders` → immediate **sell** with `percentage: 100` using `ordertype: market` (or `ioc_from_orderbook`).

```
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
    { "action": "cancel_orders", "pair": "BTCUSD" },
    { "action": "wait", "duration": 1 },
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "sell",
        "ordertype": "ioc_from_orderbook",
        "percentage": 100
      }
    }
  ]
}
```

9.6 Automated Fill Protection (default on non-market orders)

If a non-market order doesn't complete, Lynx-Relay watches it and escalates through a three-stage fallback to get you filled:

1. **The Watch** — place and wait a configurable timeout.

2. **The Chase** — cancel and re-issue a fresh limit at a more aggressive price.

3. **The Finish** — if still incomplete after a second timeout, escalate to an IOC/Sweep to complete the remainder.

```json
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 1800,
        "quantity": 1,
        "use_post_only": true
      },
      "monitoring": {
        "initial_timeout": 120,
        "cancel_wait_duration": 30,
        "new_order_timeout": 120
      }
    }
  ]
}
```

9.7 Multi-Action Playbooks (single alert, multi-step plan)

You can chain actions into one atomic alert (e.g., **cancel → wait → place limit (post-only) → monitor with timeouts**). Lynx-Relay executes them in order, letting you build robust, repeatable recipes for entries, resets, and escalations — all from one TradingView alert.

Reset & Re-enter (fee-friendly)

```json
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyBinanceUS",
```

```json
  "actions": [
    { "action": "cancel_orders", "pair": "BTCUSD" },
    { "action": "wait", "duration": 10 },
    {
      "action": "place_order",
      "order": {
        "pair": "BTCUSD",
        "type": "buy",
        "ordertype": "limit",
        "percentage": 5,
        "use_post_only": true
      },
      "monitoring": {
        "initial_timeout": 40,
        "cancel_wait_duration": 60,
        "new_order_timeout": 120
      }
    }
  ]
}
```

Fast In with Guardrails (market-like but bounded)

```json
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyGeminiAccount",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "ioc_from_orderbook",
        "value": 1000
      }
    }
  ]
}
```

Hands-Off Risk (Kraken conditional closes)

```json
{
  "secret": "YOUR_WEBHOOK_SECRET",
  "account": "MyKraken",
  "actions": [
    {
      "action": "place_order",
      "order": {
        "pair": "ETHUSD",
        "type": "buy",
        "ordertype": "limit",
        "price": 2010,
        "quantity": 0.25,
        "stop_loss": 1900,
        "take_profit": 2125
      }
    }
  ]
}
```

9.8 What Lynx-Relay does "under the hood" for safety & clarity

- **Clean acceptance & idempotency.** The webhook endpoint accepts alerts, responds cleanly (202/"Accepted"), and uses idempotency guards to ignore near-duplicate alerts so you don't double-fire a trade during volatile spikes.

- **Human-readable notifications.** Before placing, Lynx-Relay calculates the final tradable volume using your **quantity / percentage / value** rule and can send a structured **New Order Request** message (account, pair, side, sizing method, optional delay/TP/SL/post-only) to Telegram (if configured). You'll also see **Wait Complete**, **Order Skipped** (e.g., below minimum or insufficient), and final execution messages.

- **Exchange-aware sizing & clamps.** The engine respects lot sizes, min quantities, and min notionals; it will right-size (or cleanly reject) orders to avoid exchange errors and

accidental oversizing. On sells, it never exceeds your available balance.

- **Full audit trail.** Alerts, skips, fills, and outcomes are written locally for **Alert History** and **Trade History**, with exceptions summarized in **Notifications** and technical details in **Error Log** for deep-dive troubleshooting.

9.9 Practical Recipes (described, with examples)

- **"Reset & Re-enter fee-friendly."** Cancel all BTCUSD orders → wait a few seconds → place a **post-only** limit using **percentage** sizing → enable **Fill Protection** with modest timeouts so it chases once, then finishes with IOC if needed. *(See JSON in 9.7 "Reset & Re-enter")*

- **"Fast in with guardrails."** For a quick entry on a thin book, use **IOC from Orderbook** (or **IOC Sweep** for larger size). You get market-like speed while avoiding resting orders and keeping slippage bounded. *(See JSON in 9.3 & 9.7)*

- **"Hands-off risk."** On Kraken, pair your entry with exchange-resident **Stop-Loss/Take-Profit** so exits are managed even if you're away. *(See JSON in 9.7)*

---

10. System Requirements

Lynx-Relay is designed to be lightweight and efficient, running reliably on standard Windows hardware without the need for a dedicated, high-end server. The following are the minimum and recommended specifications for a smooth and stable trading experience.

10.1. Software

- **Operating System:** A 64-bit version of Windows is required.
  - Windows 10
  - Windows 11
  - Windows Server (2016, 2019, 2022) - Ideal for dedicated 24/7 deployments on a Virtual Private Server (VPS) or home server.

10.2. Hardware Recommendations

- **Processor (CPU):** Modern Dual-Core CPU (Intel Core i3 / AMD Ryzen 3 equivalent or better).

- *Lynx-Relay is not CPU-intensive during normal operation but can benefit from more cores when handling a very high volume of rapid, complex webhook alerts.*
- **Memory (RAM):** 4 GB is the minimum, but **8 GB or more is highly recommended** for a smooth experience, especially if you run other applications alongside Lynx-Relay.
- **Storage:** 100MB of free disk space.
- **Internet Connection:** A stable and reliable broadband connection is required for communication with exchange APIs and the license server.
  - *For high-frequency or latency-sensitive strategies, a low-latency connection (such as fiber internet or a VPS located geographically close to the exchange servers) can provide a competitive advantage.*
- **Networking:** This is handled **automatically by the Signal Shield installer.**
  - *For your reference, Signal Shield configures your system to accept secure external webhook traffic on TCP port 443. It manages the Windows Firewall rules and the NGINX reverse proxy to forward this traffic securely to the Lynx-Relay application. **No manual firewall configuration or port forwarding is needed on the PC where Lynx-Relay is installed.** *

---

11. Troubleshooting and Support

This section provides solutions to the most common problems you might encounter while using Lynx-Relay. A methodical approach can solve most issues quickly.

11.1. Your First Step: Always Check the Error Log

Before trying anything else, your first diagnostic step should always be to check the **Error Log Tab** in the Mission Control GUI.

This tab is your most valuable tool for detailed troubleshooting. While other tabs give you a high-level summary, the Error Log gives you the raw intelligence needed to understand the root cause of a problem.

- **Look for Simplified Messages:** For many common issues, Lynx-Relay translates complex technical errors into user-friendly explanations (e.g., "Error: API key is invalid"). Look for these first.
- **Use the Full Context:** For more complex issues, the log provides raw technical messages, including full Python tracebacks for unexpected application errors and the complete, unfiltered error responses from exchange APIs.

- **Check the Timestamps:** All log entries are timestamped, helping you pinpoint exactly when an issue occurred, which is crucial for correlating it with a specific alert or market event.

Help Us Help You: The "Send Error Report" Button

If you see an unexpected error in this tab, we kindly ask for your help. Please click the **"Send Error Report"** button.

This action anonymously sends the technical error details directly to our development team. **No sensitive data from your Vault (like API keys or secrets) is ever included.** This report simply gives us the context we need to understand the problem, identify bugs, and release improvements in future updates. It's a small click that makes a big difference.

11.2. Common Problems and Solutions

- **Symptom:** *On startup, you see a* `"Key Loading Error: Incorrect password or the vault file might be corrupted."` *message and the application does not open.*
- **Solution:**
  - **Incorrect Password:** *This is the most common cause. Carefully re-type your master password, paying close attention to typos, case sensitivity, and any extra spaces.*
  - **"Scorched Earth" Reset:** *If you are certain the password is correct, or if you have forgotten it, the* `SignalLynx_Vault.encrypted` *file may be corrupted or inaccessible. The only solution is to perform a reset.*
    1. *Close Lynx-Relay completely.*
    2. *Navigate to the application's installation directory and* **delete the**
    3. *Restart Lynx-Relay. It will guide you through the first-time setup process again, allowing you to set a new password and re-enter all your credentials.*
- **Symptom:** *Your overall status is* `Partially Online`, *and the* **Exchanges Tab** *shows a red* `FAIL` *status for one or more accounts. Telegram may show "API Communication Issue" errors.*
- **Solution Checklist:**
  1. **Check Keys/Secrets:** *Open The Vault. Carefully verify that the API Key and API Secret for the affected account are correct and exactly match what the exchange provided. Check for leading/trailing spaces when you copy-paste.*
  2. **Check Exchange Name:** *Ensure the correct exchange (KRAKEN, GEMINI, BINANCEUS) is selected in the dropdown for that account.*
  3. **Check Permissions:** *Log in to your exchange's website and verify that the API keys have the necessary permissions enabled (e.g., "Trade," "View Balance"). For security,* **withdrawal permissions are not needed and should be disabled.**

4. **Re-save The Vault:** *After making any changes, you must click* **"Save & Reload Server Keys"** *in The Vault to apply them.*

- **Symptom:** *The main status indicator in Mission Control is red and shows* `Offline / Error` *or* `Server Unreachable`*. The bot does not respond to webhooks.*

- **Solution Checklist:**
    1. **Check your License:** *This status often indicates a license validation failure. Open The Vault and confirm your License Key is correct.*
    2. **Verify Signal Shield:** *The underlying web server may not be running. This can happen if the Signal Shield setup was not completed successfully. Re-running the Signal Shield installer can often resolve this.*
    3. **Check for Conflicts:** *Ensure no other application on your computer is using the local network port* `5000`*, as this can cause a conflict.*
    4. **Check the Process:** *Open Windows Task Manager to see if the* `Lynx-Relay.exe` *process is running. If not, try restarting the application.*

- **Symptom:** *You've configured your Telegram credentials in The Vault, but no messages appear in your chat.*

- **Solution Checklist:**
    1. **Check Credentials:** *Open The Vault and meticulously double-check your* **Telegram Bot Token** *and* **Telegram Chat ID** *for accuracy. A single incorrect character will cause it to fail.*
    2. **Check Bot Permissions:** *In Telegram, ensure your bot has the necessary permissions. If it's a group, the bot must be a member. If it's a channel, the bot must be added as an Administrator with "Post Messages" permission.*
    3. **Re-save The Vault:** *Always click* **"Save & Reload Server Keys"** *after making changes to Telegram settings to ensure they are loaded by the live server.*

- **Symptom:** *TradingView alerts never reach Lynx-Relay/ TradingView alerts will fire, but nothing shows up on the Lynx-Relay Notification window or in telegram*
    1. **Fix 1: *Ensure you have restarted your computer post Signal Shield Install/Configuration. You may rerun the Signal Shield Software post restart.***
        - Some of the installed services require initialization on boot up
    2. **Fix 2: Port Forwarding not enabled on Router.**
        - This is the **most common issue** after a fresh install. It is almost always caused by a network configuration problem outside of Signal Shield's control. Please carefully review and complete the steps in **Section 5, Step 6: Configure Your Network (Port Forwarding)**.
    3. **Fix 3: LAN IP vs Public IP vs Routing (Most Common Confusion)**
        - There are TWO different IPs involved:
            - 1) LAN / Private IP (used for router port forwarding):

- - - This is the IP shown in the Router Help tab (ex: 192.168.0.167)
    - This is the IP your router forwards traffic TO; You can confirm it via Command Prompt (Windows button -> command prompt):

      ipconfig

      (use the "IPv4 Address" line)

  - 2) Public / "Base" IP (what the internet sees):
    - This is the IP returned by the powershell command (Windows button -> powershell)

      Invoke-RestMethod "https://api.ipify.org"

    - TradingView webhook URL MUST be a public HTTPS URL (not 192.168.x.x).However, using the Public IP only works if inbound routing is actually possible:
      - Home/office router: you must port-forward external 443 -> LAN IP shown in Router Help.
      - Shared networks / CGNAT / shared apartment Wi-Fi: port forwarding often cannot be configured (or won't route to your device). In this case a tunnel URL (Cloudflare Tunnel / ngrok) or host the receiver on a VPS.

11.3. Contacting Support

If you have worked through this guide and the Error Log but are still facing persistent issues, we are here to help. When reaching out, providing detailed information will allow us to resolve your issue much faster.

- **Contact Channels:**
  1. **Primary:** www.signallynx.com/contact_us
  2. **Community:** Reach out on our official **Telegram** or **X/Twitter** pages.
- **Information to Provide:**
  1. Your **Signal Lynx License Key**.
  2. A **detailed description** of the problem, including when it started and what you were doing at the time.
  3. Any steps you have already taken to try and resolve it.
  4. **Screenshots** of the Notification window,**Exchanges Tab** and the **Notifications Tab**.

5. Relevant copy-pasted excerpts from the **Error Log Tab** that correspond to the time the issue occurred. If you used the **"Send Error Report"** button, please let us know

6. Copy of your app.log file, from your lynx-relay folder.

SIGNAL LYNX ADMINS AND SUPPORT WILL NEVER ASK FOR YOUR EXCHANGE API KEYS OR PASSWORDS/PASSPHRASES. FURTHERMORE - YOU SHOULD NEVER PROVIDE THESE TO ANYONE.

---

12. Legal, Risks, and Disclaimers

This section provides a summary of key risks, disclaimers, and terms associated with the use of Lynx-Relay and Signal Shield. It is not a replacement for our full legal agreements.

By installing, accessing, or using the Signal Lynx software, you acknowledge that you have read, understood, and agree to be bound by our full, legally binding terms.

12.1. Governing Documents

Our complete legal framework can be found online at www.signallynx.com/legal. Your use of the software is governed by these documents in their entirety:

- **Terms of Service (TOS/EULA)**
- **Privacy Policy**
- **Billing & Refunds Policy**
- **DMCA Policy**

12.2. Key Disclaimers and Acknowledgment of Risk

The Lynx-Relay software and all related services are provided "AS IS" and "AS AVAILABLE," without warranty of any kind, express or implied. We expressly disclaim all warranties, including but not limited to merchantability and fitness for a particular purpose. There is no guarantee of service, uptime, or uninterrupted availability.

Automated trading is a high-risk activity. While Lynx-Relay is a robust tool, it cannot eliminate the inherent risks of trading cryptocurrencies. You acknowledge and agree that:

- Trading is highly speculative and involves a significant risk of **partial or total loss of funds.**
- Market conditions can change rapidly, and unforeseen technical issues can occur at any time. This includes, but is not limited to: internet outages, exchange API failures or

downtime, power interruptions, operating system errors, software bugs, and **user configuration errors.**

- **Signal Lynx is not responsible for any financial outcomes.** We are not liable for missed trades, "bots gone wild," losses due to market conditions, or any damages arising from your use of or inability to use the software.

Signal Lynx is a technology company. We provide software tools for execution assistance only. We are not a broker-dealer, investment adviser, or financial institution. **No content, documentation, or communication from Signal Lynx constitutes financial, legal, or tax advice.** You are solely responsible for your trading strategies, decisions, risk controls, and outcomes.

Lynx-Relay is a self-hosted product, which means you are responsible for the security of the environment where it runs. This includes OS hardening, firewall configuration (beyond what Signal Shield provides for external access), anti-malware, access controls, and proper credential hygiene for your computer and exchange accounts.

Lynx-Relay integrates with third-party services (e.g., TradingView, Kraken, Gemini, Binance.US, Telegram). We do not control and are not responsible for the availability, terms, policies, or performance of these third parties.

12.3. A Note on Responsible Trading

Automated trading can be intense and demanding. We strongly encourage all users to practice responsible trading habits.

- **Never trade with money you cannot afford to lose.**
- Understand the risks of every strategy you deploy.
- Maintain emotional discipline and avoid compulsive decision-making.

If you feel that your trading is becoming compulsive or negatively impacting your life, we strongly encourage you to seek help from professional resources dedicated to trading psychology and gambling addiction support.