

# UNPChain

Operator & User Quick Guide

## How to use this node

Become a token / contract owner, buy on the marketplace, withdraw on day 15. Tailored for users of a single UNPChain operator node.

Audience: end-users, contract owners, token issuers

Reach this guide via: <https://<your-node-domain>/UNPChain-Operator-Guide.pdf>

For full chain-admin documentation, ask the operator for the *Complete Operator's Guide* (admin edition).



# 01

## Welcome to UNPChain

UNPChain is a self-hosted EVM-compatible Layer 1 blockchain. The page you're reading is served by a single operator node. Use it to buy tokens, become a contract / token owner, or grab test UNP from the faucet (testnet only).

### Three things you can do here

- **Buy tokens** on the marketplace — open </market.html>, connect MetaMask, click Buy on any approved token.
- **Become a contract / token owner** — open </owner.html>, stake UNP into one of admin's packages, then deploy or register a contract / token. Earn 30% of every transaction targeting your contract.
- **Get test UNP** (testnet only) — paste your wallet address on the homepage's faucet card. The admin's wallet sends 10 UNP automatically. One-time per address forever.

### How fees work

Every transaction relayed through this node pays a small fee (default 0.0005 UNP). That fee is split four ways on-chain: **10% admin pool**, **30% the RPC node operator** (the wallet running this node), **30% the contract owner** (if your tx targets a registered contract), **30% the token owner** (if your tx targets a registered token). Fees accrue on-chain and can be withdrawn on chain day 15 of every 30-day cycle.

# 02

## Get test UNP (testnet only)

Need UNP to deploy a contract or buy a token? Use the faucet on the homepage. 10 UNP per address, forever, no questions asked.

### 1 Open the homepage

Go to the root URL of this node (the page you'd see at `https://<domain>/`). Scroll to the **Testnet faucet** card.

### 2 Paste your wallet address

Format: `0x` followed by 40 hex characters. Click **Request 10 UNP**.

### 3 Wait ~5 seconds

The admin's wallet signs and broadcasts the transfer. The faucet card shows the resulting tx hash. Within a block your MetaMask balance updates.

### One-time per address

Each address can request the faucet exactly once on a given node. The node persists records to disk ( `/data/faucet-records.json` ). Want more? Run the faucet on your own node, or ask another operator's node.

### Mainnet has no faucet

Faucet is only available when admin has labeled this network as **testnet**. Mainnet uses real, scarce UNP — there's no free distribution.

# 03

## Buy tokens on the marketplace

Anyone can browse. Connect a wallet only when you're ready to buy.

### 1 Open the marketplace

Go to `/market.html`. The grid lists every approved token on this chain — symbol, name, contract address, price-per-token, owner stake, and a quick-buy field. No login needed to browse.

### 2 Connect MetaMask / Trust Wallet

Click the connect button. The marketplace adds the network to your wallet automatically (RPC URL, chain ID, currency symbol). Confirm in MetaMask.


### 3 Type how many tokens you want

As you type, the panel computes `= x UNP (cost)` live. If your balance is too low, the buy button stays disabled with a clear error.

### 4 Click Buy → MetaMask pops

The dashboard signs `buy(uint256 amount)` on the token contract with `value = amount × price`. After confirmation, tokens appear in your wallet and in the "My Holding" column on the card. UNP is deducted.

### Common UX gotchas

- **"Could not coalesce error"** in MetaMask — stale RPC URL. Use the orange  **Fix MetaMask Network** button to re-add the network with the correct RPC.
- **Balance shows "—"** after connect — wait 2 seconds; the dashboard's RPC fallback kicks in.
- **"insufficient funds for gas"** — top up via Send UNP, or use the testnet faucet if available.

# 04

## Become a token or contract owner

Stake UNP into a package, deploy or register, get admin approval, earn 30% of every targeted transaction's fee. One stake, two reward streams.

### The eligibility rule

Every contract / token owner applicant must hold an active **staking-package position**. Stake at least `minTokenStake UNP` (default 5) into one of admin's packages. That same position keeps earning APR *and* qualifies you when you apply — no second deposit needed.

### Deploy a new ERC-20 token

- 1 Open `/owner.html` and connect MetaMask**

The owner portal is MetaMask-only by design — no private-key login.
- 2 Stake into a package (one-time)**

In the "Stake in a Package" card, pick any active package admin has defined and stake the minimum (default 5 UNP). MetaMask signs `stakeInPackage(packageId)`.
- 3 Open "Create A New Token"**

Fill name, symbol (uppercase), supply, price-per-token in UNP. The "Which of my package stakes?" dropdown shows your eligible positions. Click **Deploy + Register Token**.
- 4 MetaMask signs two txs**

First the ERC-20 deploy, then `applyAsTokenViaPackage(addr, name, symbol, price, stakeIdx)` with zero value. Status reads PENDING.
- 5 Admin approves**

Status flips to ACTIVE. The token now appears on the public marketplace and earns its share of every buy.

### Register an already-deployed contract

Same flow without the deploy step. Stake into a package first, then in "Register A New Smart Contract" provide the contract address and pick which package position to point at. Once admin approves, your contract earns 30% of the fee on every transaction targeting it.

# 05

## Withdraw on day 15



Pull-payment, day-restricted withdrawals — anti-flash-drain by design. Every 30-day chain cycle has one withdrawal day; the panel shows a live countdown.

### The chain calendar


UNPChain uses a 30-day chain calendar derived from `floor(unix / 86400) % 30 + 1`. Day 15 is the default withdrawal day. Off-day withdraws revert with `UNP: not withdrawal day`; on-day withdraws return your principal + accumulated APR (if a package), or your accumulated fee shares (if a contract / token / node).

### Withdraw flow

#### 1 Wait for the green badge

Open `/owner.html`. The "My APOS Earnings" banner shows either  **Locked — next withdrawal day in Nd Hh** (off-day) or  **Today is withdrawal day** (on-day).

#### 2 Click Withdraw next to each row

Each contract and token row has a green  Withdraw button when the window is open. MetaMask pops to sign `withdrawTokenFees(addr)` or `withdrawContractFees(addr)`. The fee balance lands as native UNP in your wallet.

#### 3 Refresh — accumulated balance resets to 0


Day 15 is open for 24 hours. After it closes, withdrawals lock again until the next month's day 15.

### Early-exit packages

Some staking packages allow early withdrawal — admin sets this per package. If you stake into one of those, you can exit your principal anytime, but you forfeit the accumulated APR. Locked-only packages refuse early withdraw entirely.

### Reference: error messages

Error	Where	Fix
<code>UNP: not withdrawal day</code>	MetaMask popup on Withdraw	Wait until chain day 15 — countdown shows when. Off-day, the button should already be greyed.
<code>UNP: zero</code>	MetaMask popup on Withdraw	Nothing accrued. Check earnings panel.

<code>UNP: still locked</code>	Package early exit	This package doesn't allow early withdraw. Wait until unlock.
<code>UNP: package &lt; min</code>	Apply forms	Pick a different package position that meets the minimum.
<code>could not coalesce error</code>	MetaMask buy / send	Stale RPC URL. Click  Fix MetaMask Network.
<code>insufficient funds for gas</code>	Any send	Top up via Send UNP or testnet faucet.

## Where to go from here

---

- **The marketplace** — at </market.html> , public, no login required to browse.
- **The owner portal** — at </owner.html> , MetaMask-only, for token / contract owners.
- **The full Complete Operator's Guide PDF** — covers admin operations, registry redeploy, pointer architecture, package management, every dashboard tab. Ask the operator for the link if you need it.