Use the ROKO NetworkStart here for the current testnet, public deployments, node roles, install guides, and temporal examples.Services & URIsExplorer, RPC, WebSocket, faucet, claims, holder intelligence, node, liquidity, payment, staking, downloads, snapshots, torrent, bootnode, and NTP endpoints.v1.0.22 Validator UpgradeRequired rolling validator upgrade before temporal EVM runtime activation.Wallets and FaucetAdd ROKO Testnet to popular EVM wallets and claim faucet funds safely.
Run a NodeChoose, install, bootstrap, and verify a full or archive node.
Choose a Node RoleCompare full, archive, validator, observer, and private time-service roles.Guided Node InstallUse the white-glove installer for a full, archive, observer, or validator-candidate node.Advanced Node OperationsManual runtimes, storage, services, gateways, and detailed diagnostics.Upgrade a NodeUpgrade native or Docker nodes safely with manual and agentic procedures, rollback, and validator identity gates.BitTorrent SeedingHelp distribute verified snapshots and releases with a safe, automated torrent client.Prepare a ValidatorPrepare an isolated validator and complete reviewed enrollment.Validator Key CustodySelect practical key protection without weakening operational boundaries.
Time ServicesOperate observers and private NTP service without confusing network protocols.
PTP² ObserverJoin the ROKO time-quality mesh without authoring blocks.Private NTP ServerServe disciplined time safely to systems on a private LAN.
Temporal RPC QuickstartQuery finalized temporal data without losing nanosecond precision.Temporal EVM PrecompileRead committed ROKO nanosecond timestamps from Solidity.

# Use the ROKO Network

This is the public entry point for ROKO users, node operators, time-service operators, and application developers.

ROKO is currently a testnet. Chain state, endpoints, and enrollment rules can change before mainnet. Read the checked `network-manifest.23bd56722e7f.json` before following an operational guide.

Validator operators: upgrade to v1.0.22 before runtime spec 285 activation.

## Choose a path

| I want to… | Start here |
| --- | --- |
| set up a wallet and claim test ROKO | Wallets and faucet |
| use public RPC, WebSocket, boot, or NTP services | Public services |
| choose a full, archive, validator, or observer role | Node roles |

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| I want to… | Start here |
| --- | --- |
| install a full, archive, observer, or candidate node | Guided node install |
| upgrade an existing native or Docker node | Upgrade a node |
| help distribute snapshots and releases | BitTorrent seeding |
| prepare an isolated validator | Run a validator |
| choose affordable validator key protection | Validator key custody |
| join the PTP² mesh without authoring blocks | PTP² observer |
| serve time to computers on my private LAN | Private NTP server |
| query and use nanosecond temporal data | Temporal RPC quickstart |
| read committed ROKO time from Solidity | Temporal EVM precompile |

## Three protocols, three jobs

- **NTP** disciplines a computer's system clock. ROKO provides a public NTPv4

source at `time.roko.network`.

- **ROKO PTP²** measures and exchanges clock observations between ROKO libp2p

peers. It is not IEEE 1588 PTP.

- **Temporal JSON-RPC** exposes mesh quality and canonical on-chain nanosecond

timestamps to applications.

Joining one does not silently enable the others.

## Public-document boundary

These guides intentionally contain only public DNS names, public ports, public chain identity, public peer identity, released software references, and generic topologies. They do not describe ROKO's origin addresses, internal hosts, private peer layout, management network, tunnels, credentials, or secret-store layout.

Never post a seed phrase, private key, node-key file, credential, private topology, or unredacted service log in a support issue.

## Validation status

The public service and v1.0.22 release values in this set were checked on 2026-08-05. Bootstrap, test, and edge commands target Linux with systemd and Chrony. Timebeat is the endorsed official validator timing partner, and maximum-tier validator payout eligibility requires a licensed Timebeat deployment plus participation in the Timebeat PTP² Mesh. Install the node from the public GHCR

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image or from the checksum-verified native binary distributed by HTTPS or BitTorrent. Public node operation never requires access to the private source repository. The current chain-spec bootstrap is testnet-only.

Recheck the public RPC identity against the manifest:

```
node scripts/validate-public-network.mjs
```

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