

// TRUST PACK · v1 · June 2026

# Receipts, not claims.

Operator credentials, security architecture, and verifiable evidence for counterparties, custodians, and institutional delegators evaluating 01node.

<b>\$540M+</b>	<b>40+</b>	<b>Zero</b>	<b>6 yrs</b>
<b>AUS</b>	<b>Networks</b>	<b>Delegator loss</b>	<b>Continuous ops</b>

# Executive summary

01node operates bare-metal validator infrastructure for proof-of-stake networks since the 2019 Cosmos Hub mainnet genesis. We run YubiHSM-backed keys behind Horcrux 2-of-3 threshold signers on Cosmos chains, Web3Signer with slashing-protection on Ethereum, and participate in five Lido Simple DVT Module clusters as a signed Node Operator. Founder Claudiu Nae has been CISA-certified since 2004. We are ISO 27001 and ISO 9001 certified. Our SOC 2 Type II observation window is on the 2026-2027 compliance roadmap.

Across forty-plus mainnets and six years of continuous operation, we have recorded **zero net delegator loss** under our full-reimbursement policy on disclosed incidents. One disclosed slashing incident (Horcrux v3.3.1 race condition on Osmosis, March 2025) was patched in Horcrux v3.3.2 within 28 hours; all 4,650 affected delegators were reimbursed in full from our operational reserve. The post-mortem is at [01.ro/security#disclosed-incidents](https://01.ro/security#disclosed-incidents). Every claim in this pack is either on-chain verifiable, listed on a third-party registry with a public link, or tagged on-site with explicit active / in-progress / planned status — never overclaimed.

## Quick facts

<b>Legal entity</b>	01NODE Funding SRL · Bucharest, Romania (RO)
<b>Founded</b>	2019 (Cosmos Hub genesis validator)
<b>Network</b>	AS41536 — prefixes 195.14.16.0/24, 193.222.57.0/24, 91.198.59.0/24
<b>Datacenters</b>	Two Tier III TIA-942 facilities, Bucharest
<b>Hardware</b>	AMD EPYC 7003 series · ECC DDR · enterprise NVMe with ZFS
<b>Slashing record</b>	1 disclosed (Horcrux v3.3.1, Osmosis, 2025-03-06) · zero net delegator loss
<b>Reimbursement</b>	100% of disclosed incidents · 4,650 / 4,650 delegators · operational reserve
<b>AUS (delegated)</b>	\$540M+
<b>Networks active</b>	23 mainnet validators (full list at <a href="https://01.ro/networks">01.ro/networks</a> )
<b>Founder</b>	Claudiu Nae — CISA-certified 2004
<b>Team</b>	8 named engineers — bios at <a href="https://01.ro/team">01.ro/team</a>

# Certifications & assurance

Certification / control	Status	Evidence
ISO/IEC 27001 · Information Security	<font color="#cef98a	Annual surveillance audits maintained on schedule
ISO 9001 · Quality Management	<font color="#cef98a	Operational quality across validator and RPC services
StakingRewards AA Verified Provider	<font color="#cef98a	stakingrewards.com/savings/01node
YubiHSM dual-DC key custody	<font color="#cef98a	Documented publicly since June 2019 (Medium Part 2)
DVT on Ethereum (Obol + SSV)	<font color="#cef98a	5 Lido Simple DVT Module clusters with on-chain signatures
Horcrux threshold signing	<font color="#cef98a	2-of-3 across Cosmos-ecosystem chains
Web3Signer with slashing-protection DB	<font color="#cef98a	Ethereum validator clusters <
FIDO2 / WebAuthn for ops team	<font color="#cef98a	All admin systems, no SMS 2FA
Chainlink Node Operator + Channel Partner	<font color="#cef98a	Listed on chainlinkecosystem.com/ecosystem/01node since Sep 2020
Wormhole Guardian (CertusOne onboarding)	<font color="#cef98a	Initial guardian set, December 2020
SKALE Genesis Validator	<font color="#cef98a	Block-zero participation, September 25, 2020
The Graph Indexer	<font color="#cef98a	Registered indexer since December 22, 2020
Babylon Finality Provider (BTC staking)	<font color="#cef98a	Approved Cap-2 onwards <
SOC 2 Type II	<font color="#aca9a9	Target: 2026-2027 observation window. ISO 27001 maps majority of common
MiCA CASP authorisation	<font color="#aca9a9	Filing track in preparation for July 2026 enforcement
Penetration test · Tier 1 vendor	<font color="#aca9a9	Annual cadence, executive summary under NDA
Bug bounty programme	<font color="#aca9a9	Scoped Immunefi engagement

# Infrastructure architecture

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## Network

<b>Autonomous System</b>	AS41536 (own ASN, BGP routing under our control)
<b>IPv4 prefixes</b>	195.14.16.0/24 · 193.222.57.0/24 · 91.198.59.0/24
<b>Verification</b>	RIPE NCC database; <a href="https://bgp.tools/as/41536">bgp.tools/as/41536</a>
<b>Peering capacity</b>	20 Gbps+ direct to tier-1 carriers
<b>DDoS mitigation</b>	140 Gbps layer 3/4 at facility boundary
<b>Sentry topology</b>	3-6 sentries per network in front of every signing node
<b>Public ingress</b>	VPN-only since June 2019; never permitted on signing infra

## Compute & facility

<b>Datacenters</b>	Two Tier III TIA-942 facilities in Bucharest
<b>Topology</b>	Active-passive with rehearsed manual failover
<b>Compute</b>	AMD EPYC 7003 series · ECC DDR · NVMe with ZFS
<b>Power</b>	2N UPS, N+1 cooling, dual feed
<b>Physical security</b>	24/7 biometric access control
<b>Geographic resilience</b>	Different power grids, diverse upstream transit

## Key management

<b>Hardware Security Module</b>	YubiHSM 2 — primary + hot backup, one per datacenter
<b>Documented since</b>	June 2019 (Medium 'On Validator Setup — Part 2')
<b>Cosmos signing</b>	Horcrux 2-of-3 threshold across 3 signer instances
<b>Ethereum signing</b>	Web3Signer with slashing-protection database
<b>DVT participation</b>	5 Lido Simple DVT Module clusters (4 Obol + 1 SSV)
<b>Key isolation</b>	Signing segment unreachable from public infrastructure
<b>Operator access</b>	FIDO2 / WebAuthn passkeys — no SMS 2FA permitted

# Lido Simple DVT Module — five clusters

Each cluster's operating-rules acceptance is signed on-chain by 01node and verifiable on Etherscan.

Cluster name	Network	Etherscan signature
Bountiful Bison	Lido x Obol	<a href="https://etherscan.io/verifySig/37898">etherscan.io/verifySig/37898</a>
Quixotic Quail	Lido x Obol	<a href="https://etherscan.io/verifySig/250746">etherscan.io/verifySig/250746</a>
Unfettered Urial	Lido x Obol	<a href="https://etherscan.io/verifySig/251666">etherscan.io/verifySig/251666</a>
Ethereal Elf (Super Cluster)	Lido x Obol	<a href="https://etherscan.io/verifySig/254667">etherscan.io/verifySig/254667</a>
Resilient Rabbit	Lido x SSV	<a href="https://etherscan.io/verifySig/255750">etherscan.io/verifySig/255750</a>

## Other institutional credentials

Chainlink Node Operator	Live since Sep 2, 2020 ( <a href="https://chainlinkecosystem.com/ecosystem/01node">chainlinkecosystem.com/ecosystem/01node</a> )
Chainlink Channel Partner	Recognised programme, oracle node category
stake.link partnership	Strategic LINK liquid staking, announced Apr 2025
Wormhole Guardian	Initial guardian set, Dec 2020 (via CertusOne)
SKALE Network	Genesis validator, mainnet Sep 25, 2020
The Graph	Indexer, Dec 22, 2020
Babylon BTC staking	Approved Finality Provider, Cap-2 onwards
MultiversX	Listed validator, native staking delegation
StakingRewards	AA verified provider, ongoing public profile

# Team & governance

Eight named engineers operate this stack. Validator decisions trace to a named accountable human. Full bios at [01.ro/team](https://01.ro/team).

Name	Role
<b>Claudiu Nae</b>	Founder · Operator · CISA-certified 2004
<b>Cristian Chirculescu</b>	CTO · Infrastructure
<b>Adrian Turcitu</b>	Network Engineer (BGP, peering, edge)
<b>Marius Matei</b>	DevOps Engineer (validator fleet automation)
<b>Gabriel Mateiciuc</b>	DevOps (deployment, monitoring, eBPF)
<b>Silviu Pruteanu</b>	UI / UX Designer
<b>Faith Braide</b>	Community · Lead Marketing
<b>Vivian Davids</b>	Content Writer

## Selected governance participation

Non-exhaustive — verifiable on each chain's governance explorer:

Cosmos Hub — Proposal D (2019)	Voted YES
IRISnet — governance since 2019	Active
Kava — transfers proposal + ongoing	Active
Persistence — Proposal #1 (Sep 2021)	Voted YES
Quicksilver — Proposal #1 (Dec 2022)	Voted YES
Secret Network — prevote since 2020	Active
SKALE — genesis Sep 2020	Genesis
The Graph — indexer since Dec 2020	Active

# Disclosed incidents

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Operational incidents visible on-chain receive an explicit post-mortem in this pack. Operators who hide incidents lose institutional trust the moment due-diligence finds the on-chain evidence; operators who disclose with context earn it.

## 2025-03-06 · Osmosis · Horcrux v3.3.1 race condition

<b>Block</b>	30968345
<b>Timing</b>	Two signatures, 1.5 ms apart (21:35:48.759Z / 21:35:48.760Z UTC)
<b>Slash</b>	5% (~75,306 OSMO) · validator tombstoned
<b>Reimbursed</b>	75,305,896,736 uOSMO across 4,650 delegator addresses (100%)
<b>Vendor advisory</b>	GHSA-6wxf-7784-62fp (Strangelove Ventures)
<b>Patch</b>	Horcrux v3.3.2 released <28h after our incident report; deployed across our infra within hours
<b>Root cause</b>	Race condition between HRSKey() read lock and cacheAndMarshal() write lock — fixed with signing lock
<b>Why us specifically</b>	Strangelove framing: 'one validator out of hundreds' — bug reachable only at sub-2ms signing latency
<b>Net delegator loss</b>	Zero (operational reserve funded the reimbursement before vendor reimbursement settled)
<b>Full post-mortem</b>	<a href="https://01.ro/blog/one-point-five-milliseconds-osmosis-horcrux-incident">01.ro/blog/one-point-five-milliseconds-osmosis-horcrux-incident</a>

# How to verify everything in this pack

Every claim above maps to a public source. Vendor risk teams can validate independently:

Claim	Where to verify
AS41536 + IP prefixes	RIPE NCC database, <a href="https://bgp.tools/as/41536">bgp.tools/as/41536</a>
Lido DVT cluster signatures	Etherscan signature URLs above
Chainlink Node Operator status	<a href="https://chainlinkecosystem.com/ecosystem/01node">chainlinkecosystem.com/ecosystem/01node</a>
StakingRewards AA rating	<a href="https://stakingrewards.com/savings/01node">stakingrewards.com/savings/01node</a>
Wormhole Guardian set	<a href="https://wormhole.com">wormhole.com</a> / Mintscan guardian list
Validator addresses (per-chain)	<a href="https://01.ro/networks/[chain]">01.ro/networks/[chain]</a> - each links to explorer
Founding security architecture	<a href="https://medium.com/01node/on-validator-setup-part2-c78c05937927">medium.com/01node/on-validator-setup-part2-c78c05937927</a> (June 2019)
Current security control map	<a href="https://01.ro/security">01.ro/security</a> (active / in-progress / planned tags)
Disclosed Osmosis incident	<a href="https://github.com/strangelove-ventures/horcrux/security/advisories/GHSA-6wxf-7784-62f">github.com/strangelove-ventures/horcrux/security/advisories/GHSA-6wxf-7784-62f</a>
Reimbursement transfers	On-chain on Osmosis · 4,650 addresses · 75,305,896,736 uOSMO
Incident post-mortem	<a href="https://01.ro/blog/one-point-five-milliseconds-osmosis-horcrux-incident">01.ro/blog/one-point-five-milliseconds-osmosis-horcrux-incident</a>
Security disclosure	<a href="mailto:secops@01.ro">secops@01.ro</a> · PGP at <a href="https://01.ro/pgp/secops.asc">01.ro/pgp/secops.asc</a>
RFC 9116 security.txt	<a href="https://01.ro/.well-known/security.txt">01.ro/.well-known/security.txt</a>

## Engagement & onboarding

For institutional engagements, the typical onboarding flow is documented at [01.ro/docs](https://01.ro/docs) (5-step sequence, 4-8 week timeline). Trust pack with unredacted commercial detail (pricing, MSA template, DPA, SLA terms, references) is delivered under NDA. Request via the addresses below.

## Contact

General	<a href="mailto:hello@01.ro">hello@01.ro</a>
Institutional / sales	<a href="mailto:hello@01.ro">hello@01.ro</a> · subject: Enterprise
Security disclosure	<a href="mailto:secops@01.ro">secops@01.ro</a> · PGP fingerprint EF56 2C83 CB98 107A 0593 957D 6F17 3EC4 7C60 8408
Site	<a href="https://01.ro">https://01.ro</a>
Documentation hub	<a href="https://01.ro/docs">https://01.ro/docs</a>
Operator credentials (web)	<a href="https://01.ro/operator-credentials">https://01.ro/operator-credentials</a>
Case studies	<a href="https://01.ro/case-studies">https://01.ro/case-studies</a>
Brand / press	01node, AS41536, 01NODE Funding SRL, Bucharest, Romania (RO)

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