Solieum

LAYER 2 FOR SOLANA · BLOCKCHAIN LIFE 2026 · DUBAI · 1–2 DECEMBER

Fast off-chain.
Final on Solana.

An optimistic rollup that executes in the Solana Virtual Machine, publishes its data on Solana, and lets Solana settle every dispute.

Solana is fast. Builders still need room of their own.

An app that wants its own execution lane, predictable costs and its own rules has had to give something up to get them.

Sidechains

Move finality to a new validator set. Solana becomes decoration rather than security.

Validiums

Move data to an external layer. "Secured by Solana" stops being true without a footnote.

New virtual machines

Break compatibility. Divergence from the real SVM is the one risk that cannot be bounded.

Execute off-chain. Publish on Solana. Let Solana judge.

Same virtual machine

A fork of Agave's SVM, so programs behave identically. A block every 100 milliseconds when there is work.

Data on Solana

Every batch is compressed and published in Solana transactions. Anyone can rebuild the chain from scratch.

Settlement under bond

One 32-byte state root per batch. It becomes final only after a 48-hour challenge window passes unchallenged.

Four reasons, checked against what runs

LIVE ON DEVNET

Dedicated blockspace

Its own sequencer and blocks. A rush on Solana does not delay a Solieum transaction or change its flat fee.

MEASURED

Fast confirmation

A signed receipt in 14 ms, a block in about 100 ms (devnet medians, 13 Nov). Sub-millisecond is not claimed.

IN PROGRESS

A chain shaped to the app

Solana's own runtime, not the EVM. Each chain runs exactly the programs fixed at its start.

NOT BUILT

Compliance lanes

No KYC yet. A permissioned lane must not undo forced inclusion, so that design comes first.

A failed transaction costs nothing

ON SOLANA

Fee paid

A quarter to a third of non-vote transactions execute and fail, and every one still pays its fee.

ON SOLIEUM · BUILT, ON DEVNET

0 SOL

A transaction that would fail is run when it is submitted and refused there, with the program's own error. It never reaches a block and is never charged.

Not a trade guarantee: slippage still refuses. **Not finality**: blocks settle on the usual schedule. **One exception**: forced-inclusion entries posted through Solana are not checked first. Source: ADR-0014.

Two buyers, one item left

ON SOLANA

- **Send.** Both built against "one item left".
- **Execute.** Alice's buys it; Bob's runs next: sold out.
- **Result.** Both land in a block. Bob's failed, fee paid.

Bob: failed on chain, fee paid

ON SOLIEUM

- **Alice sends.** Run against the block being built: admitted.
- **Bob sends.** Run with Alice's purchase included: sold out.
- **Refused.** Turned away at once. No block, no fee.

Bob: told no in milliseconds, 0 SOL

Bob still does not get the item. Losing the race just costs nothing. Order of events only; no timings claimed.

How a transaction becomes final

Send
The sequencer signs a receipt fixing batch and position before execution.

Execute
Off-chain, in the SVM. A block seals every 100 ms.

Publish
The compressed batch is committed on Solana itself.

Commit
A 32-byte root goes to the settlement program under a bond.

Challenge
48 hours for anyone to dispute the root.

Final
Withdrawals verify against final roots only.

Four components carry the design: the sequencer, data availability, settlement and the dispute game. The fifth thing is Solana itself.

A disagreement about a batch becomes a disagreement about one instruction.

1 · Challenge

Anyone who thinks a posted root is wrong opens a dispute inside the 48-hour window.

2 · Bisect

Challenger and proposer halve the disputed execution trace each round until a single step remains.

3 · Solana decides

Solana executes that one step. The loser's bond pays the winner. No committee, no vote.

Receipts keep the sequencer honest too: two receipts for the same position are a contradiction anyone can prove, and the proof takes the bond.

What Solieum is not

Not a sidechain

No Solieum validator set decides state or finality. A staked sequencer set is a planned stage, and it will decide ordering only.

Not a validium

Batch data lives on Solana. A cheaper external layer would become a second trust root. Per-market exceptions would be disclosed on the front page, never silently.

Not a new VM

A harness replays identical blocks on different machines and compares roots byte for byte, so the fork cannot drift.

Small, fixed, checkable

100 ms

Block cadence when there is work: the devnet chains' setting.

48 h

Challenge window, counted in wall-clock seconds since September 2026.

32 B

One root per batch carries the whole chain's state to Solana.

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Programs live on Solana devnet: settlement, data availability, inbox, dispute game, bridge portal, sequencer bond.

Settlement cost is per batch, not per transaction.

Rent, not fees, is the cost of running a rollup on Solana. A block pays for its own settlement at roughly 705 transactions at the flat fee, or about 452 once batch rent is returned, as it is today. Below that the chain is subsidised, and the whitepaper says so.



THE NATIVE COIN

SEU: Solana's shape, without Solana's inflation

500,000,000
Fixed supply, 9 decimals, minted once, mint authority revoked.

No new issuance
Ever. On a rollup, new coin would pay for no security (ADR-0028).

Half of every fee
Destroyed on Solieum's own chains.

15% a year
Settlement rewards released from a pre-minted pool, of what remains.

Bonds and the rollup's gas stay SOL: a guarantee that weakens when a fraud is found is not a guarantee.

Not issued on any network of value. Devnet test value only. No mint on Solana, no public sale, no airdrop. Until solieum.com says otherwise, any address claiming to be SEU is a scam.

Counted from issuance, and never one big unlock day

Private rounds

A 9-month cliff, then 12 months linear.

Team

A 12-month cliff, then 36 months linear.

Presale

25% at issuance, the rest over 6 months.

About 11%

Of supply liquid at issuance; the largest part is launch liquidity in locked pools.

Private rounds start at month 9 and the team at month 12, so the two never unlock on the same day. The treasury is locked for 12 months.

Every bucket vests in an escrow anyone can read. Nothing unlocks before issuance. Signed agreements keep their own terms. Source: ADR-0028, amended 19 November 2026.

Live on Solana devnet. Not on mainnet.

- Settlement
- Data availability
- Forced-inclusion inbox
- Dispute game
- Bridge portal
- Sequencer bond

Single sequencer

One bonded operator, signing receipts, drained by forced inclusion every block.

Disputes enforce

The dispute program is the settlement program's authority, so a verdict counts.

Proof binding

Node and settlement halves built; the on-chain one-step half is designed and next.

Not audited

No public endpoint, no user funds. Every next stage is gated on a condition, not a quarter.

Built with, and built on

Solve · Cradle

Solieum's language and framework. Write a contract once in CradleScript; the native Solana program it emits is exactly what Solieum executes. The same source ships to EVM, NEAR, Polkadot, Aptos and Sui.

AI CONTROL Trust Chain

AI identities, policies and control decisions anchored on Solieum, so anyone with a proof ID can verify who authorized what.

Run a node

The explorer ships inside the node. Docs on GitBook, code on GitHub, every claim published with the basis it rests on.

Let's talk at the booth.

WEB solieum.com

DOCS solieum.gitbook.io/solieum

TELEGRAM t.me/Solieum_layer2

X x.com/solieum

CODE github.com/Solieum

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