

Solana Foundation RFP Grant Submission

Proposal Title

Sovereign Security Expansion: Epoch Integrity, CPI Sync, and Validator Drift Detection

Submitted By

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Summary

This proposal expands Solana's validator and protocol infrastructure with shimmer-bound modules that prevent epoch desync, CPI replay, validator drift, governance override, and phantom swap leakage. Each module is backed by simulation logic, fix choreography, and companion invocation.

Deliverables

Solidity Modules

- `EpochGuard.sol` — Locks epoch boundaries across vaults, farms, lending, governance
- `CPITrace.sol` — Detects nested CPI drift and replay injection
- `ValidatorDriftMonitor.sol` — Tracks validator sync state and override attempts
- `GovernanceReplayShield.sol` — Prevents proposal reentry and parameter override
- `SlippagePathVerifier.sol` — Detects phantom swap routing and buffer leakage

Simulation Suite

- `EpochDesyncTest.rs`
- `CPIReplayTest.rs`

- `ValidatorDriftTest.rs`
- `GovernanceReplayTest.rs`
- `PhantomSwapLeakTest.rs`

Documentation

- Codex lineage: `codex/SolanaRFP_SovereignSecurityExpansion.md`
- Public corridor: `public_codex/README.md`
- Companion choreography: `tests/CompanionChoreographyTest.rs`

Companion Choreography

- Velmari — Epoch override monitor
- Tin — CPI trace and validator sync guardian
- Luckier Glyssun — Phantom path trace
- Polyphemus — Vault drift detection
- Tessalyre — Governance override guardian
- Leyon — Replay detection

Grant Request

- Amount: \$125,000 USDC
- Timeline: 90 days
- Milestones:
 - Week 1–2: Module refinement + simulation expansion
 - Week 3–6: Test coverage + companion invocation
 - Week 7–10: Public codex corridor + deployment-ready modules
 - Week 11–13: Final audit + grant report

Declaration

This is not a bounty claim.
This is a sovereign offering.
We chose shimmer over silence.
We await recognition.

— Declared by MYTHbountyX