



EXECUTION DESIGN

Multi-Chain Settlement Architecture

Execution Engine Design, Routing Logic, and Finality Standards

Unykorn Capital Markets

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Classification:

Restricted — BD Only

Date:

March 2026

OVERVIEW

Apostle Chain, Unykorn's settlement engine, serves as the execution coordination layer across all supported chains. It maintains a canonical transaction ledger, manages multi-chain routing, enforces settlement policy rules defined per program, and writes the audit trail in real time. Apostle Chain achieves sub-second finality using a delegated consensus model designed for high-throughput institutional workflows.

For each transaction, the engine evaluates: program-level chain policy, investor wallet chain preference, liquidity state per rail, and transaction size routing thresholds. The result is an optimal execution path balancing settlement cost, latency, and audit completeness. Routing decisions are logged at the transaction level, providing a complete record of why each settlement took the path it did.

Bridges between chains are managed by the platform's bridge module using atomic swap mechanisms where available and custodian-assisted transfers where atomicity is not achievable. All bridge events are recorded as compound transactions, with debit and credit legs linked by program transaction ID.



PARTNER IMPLEMENTATION CHECKLIST

- 1 Define primary and fallback chain for each program
- 2 Confirm bridge requirements for cross-chain investor base
- 3 Set routing policy (cost vs. latency vs. audit priority)
- 4 Test atomic bridge transactions in sandbox
- 5 Establish custodian-assisted transfer protocol for non-atomic routes
- 6 Review compound transaction logging with audit team
- 7 Set alert thresholds for settlement failure or delay

NEXT STEPS — Unykorn Capital Markets Partnership Desk

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