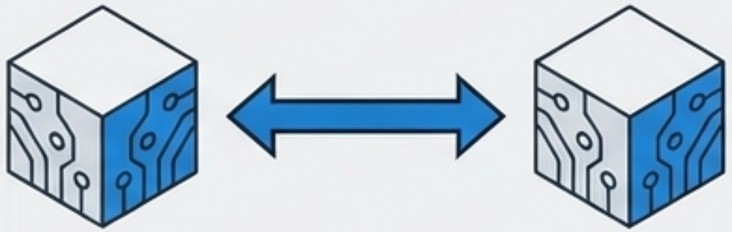
The End of Disputable AI Connections

Architecting Non-Bypassable Intelligence and Enterprise Interoperability with SagaChain.

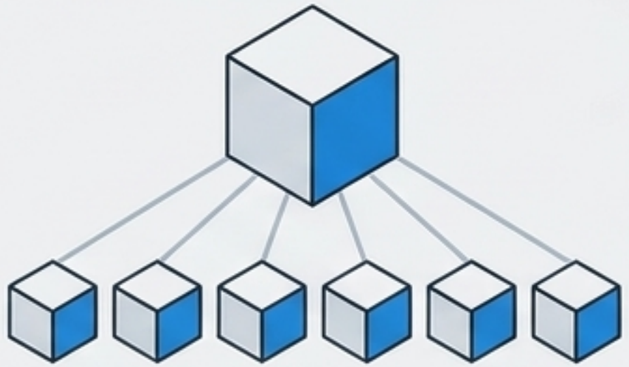
The Current Standards for AI Agent Communication

Google A2A



- AI-to-AI / LLM-to-LLM focus
- Peer-to-peer logic (agents swap client/server roles)
- Supports persistent sessions

Anthropic MCP



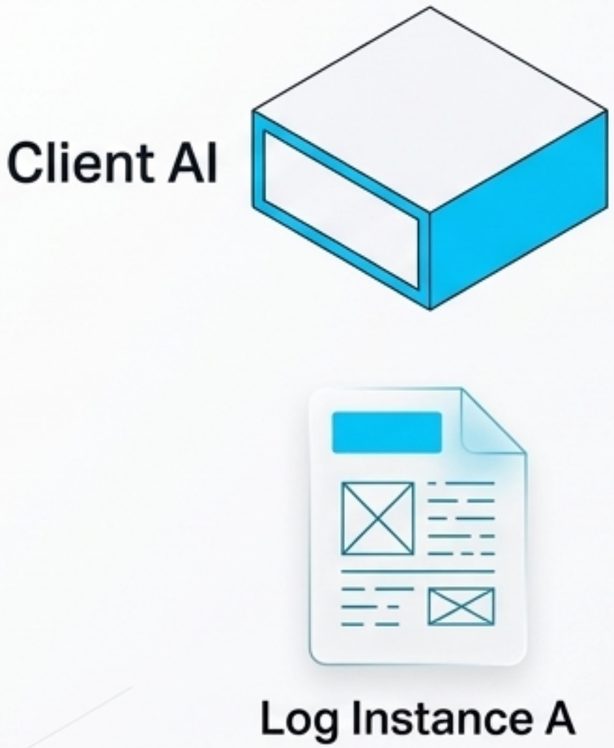
- Fixed Client-Server model
- Host LLM-to-Tool discovery
- URL resource listing for external tools

Baseline: Both protocols leverage existing HTTPS/JSON RPC frameworks, assuming a direct network connection from the client role to the server role.

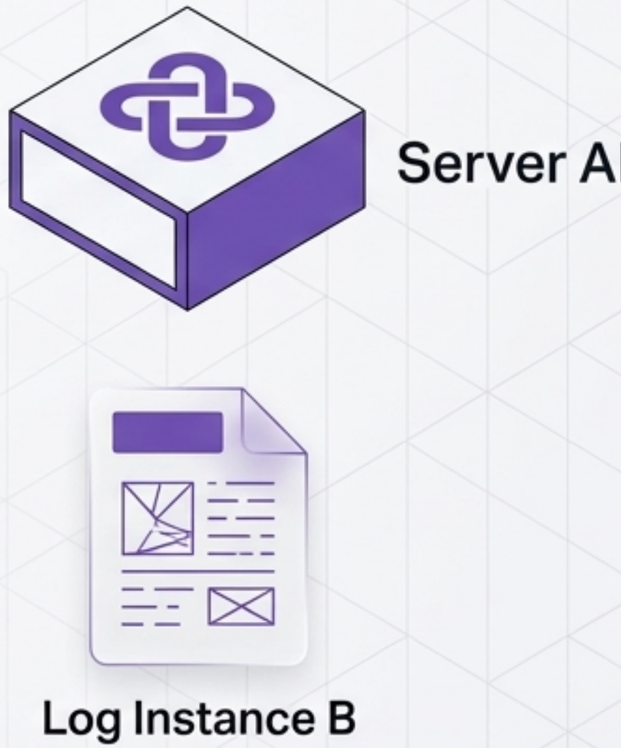
Evaluating the 5 A's of Cloud Security Posture

Architectural Gap: The shortcoming of current models is not in their specific implementation, but in their fundamental architectural inability to guarantee the final three 'A's without a non-disputable single source of truth.

The Anatomy of a Protocol Dispute

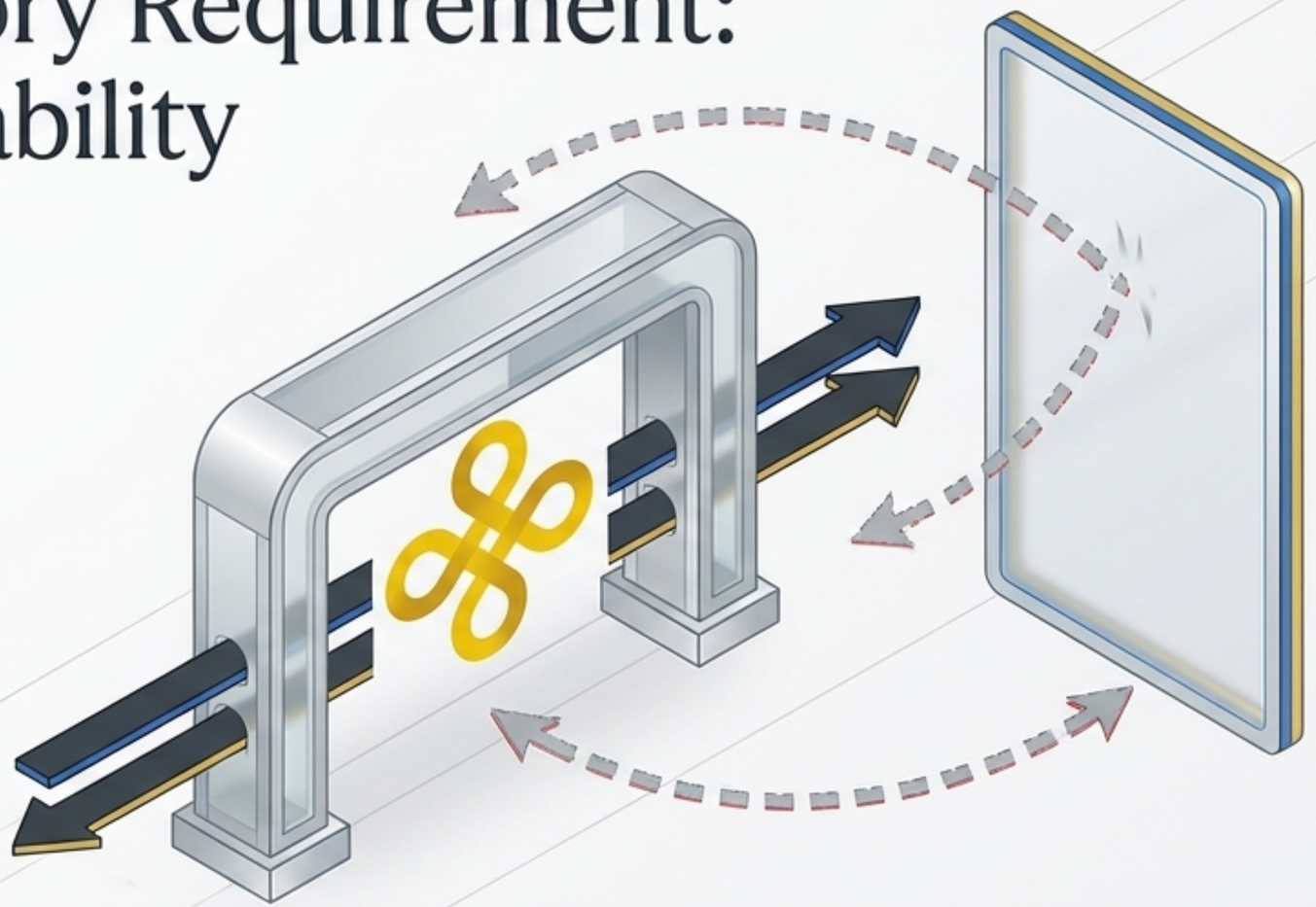


No Computational Resolution Mechanism



In a direct client-server architecture, each party holds independent data regarding the exchange. When a conflict occurs during an audit, settlement, or reconciliation event, the architecture provides no mathematical single source of the truth.

The Mandatory Requirement: Non-Bypassability



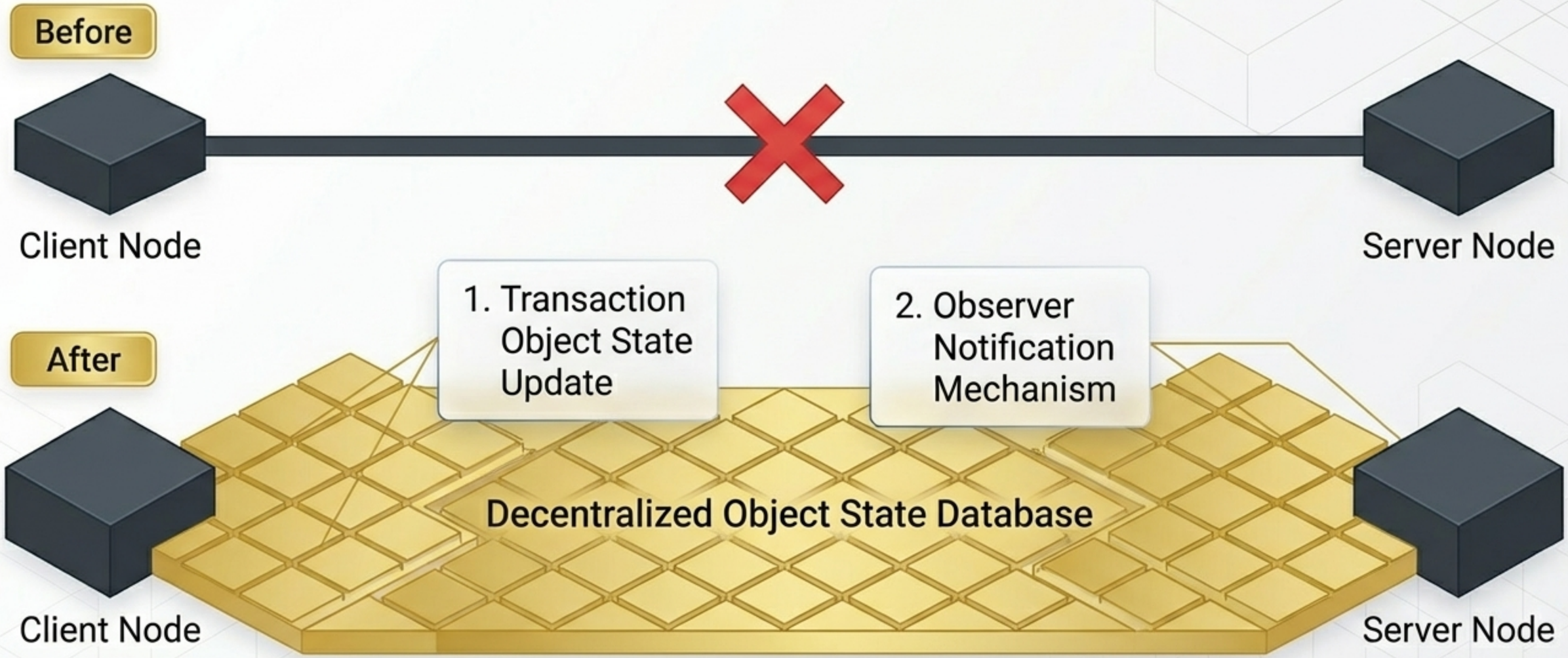
Non-Bypassability Shield

To create a non-disputable single source of the truth, the architecture must include an independently verifiable entity that both the client and server MUST involve in every exchange.

Architectural Diagnostic Matrix

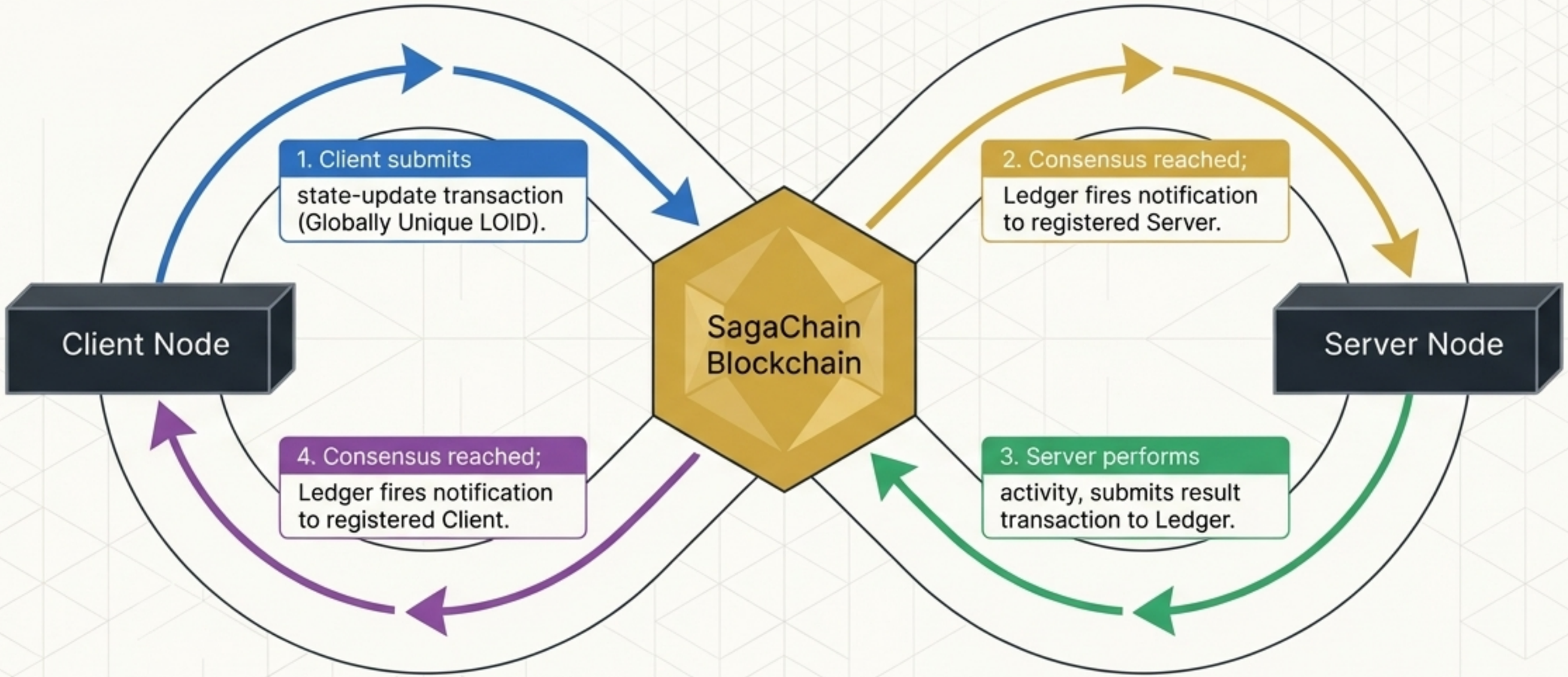
	Google A2A	Anthropic MCP	**Prasaga SagaChain**
Primary Entities	LLM-to-LLM	Host LLM-to-Tool	Universal Entity **Interoperability**
Connection Model	Peer-to-Peer HTTPS	Fixed Client-Server	Decentralized Observer Notification
Source of Truth	Dual Disputable Logs	Dual Disputable Logs	Singular Immutable Ledger

Dismantling the Direct Connection

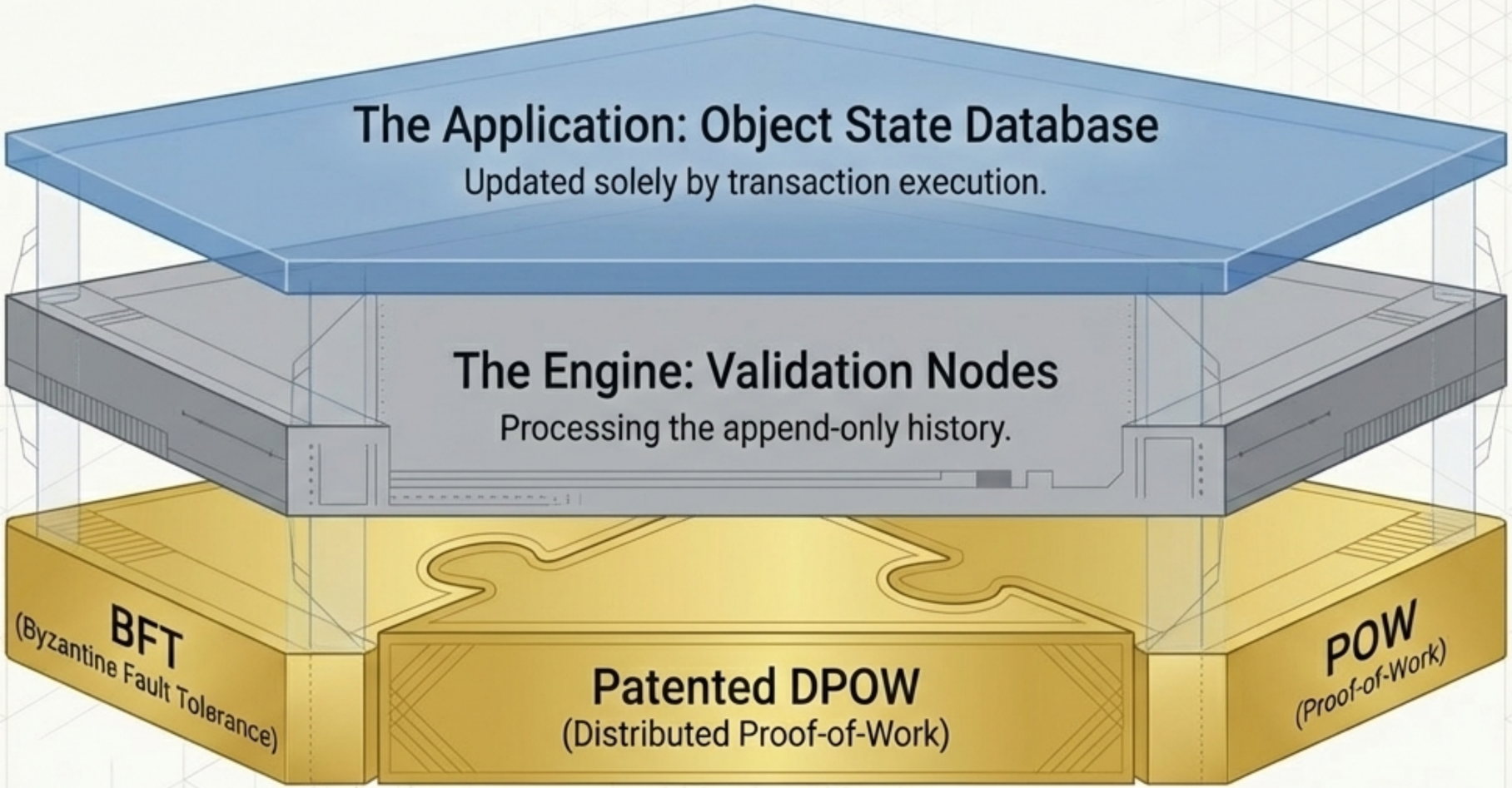


No entities directly exchange data regarding the 5 A's.

The Observer Notification Engine in Action

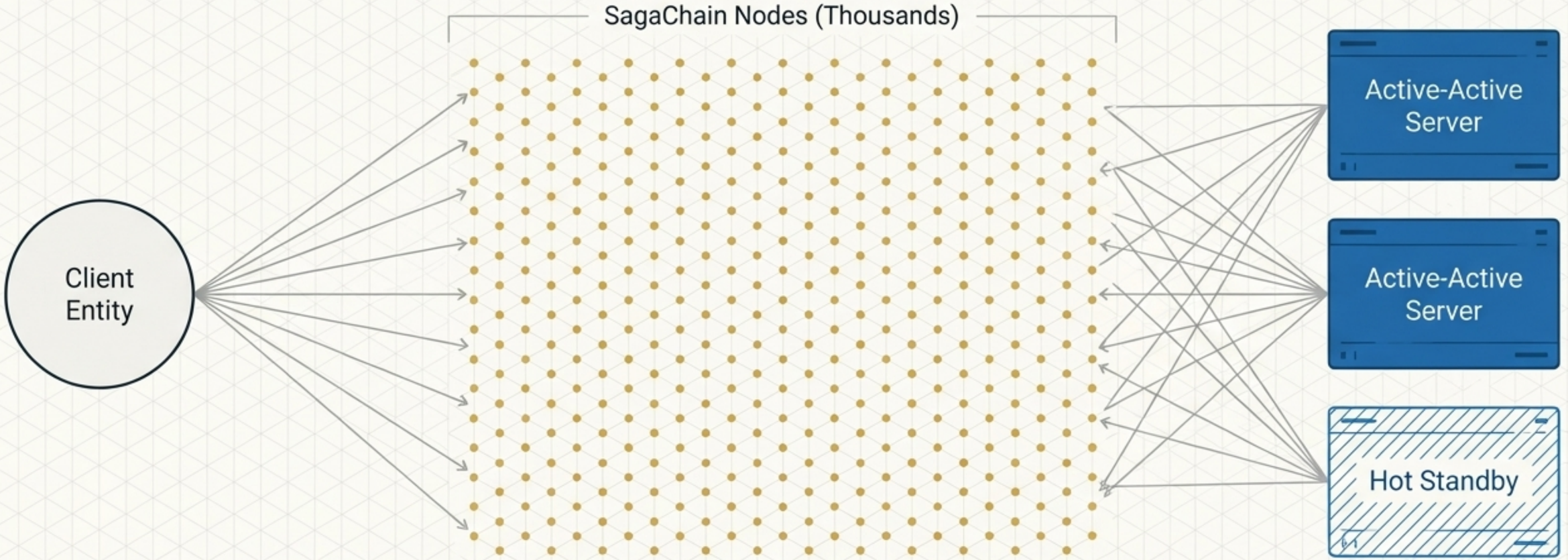


The Mathematical Foundation of Immutability



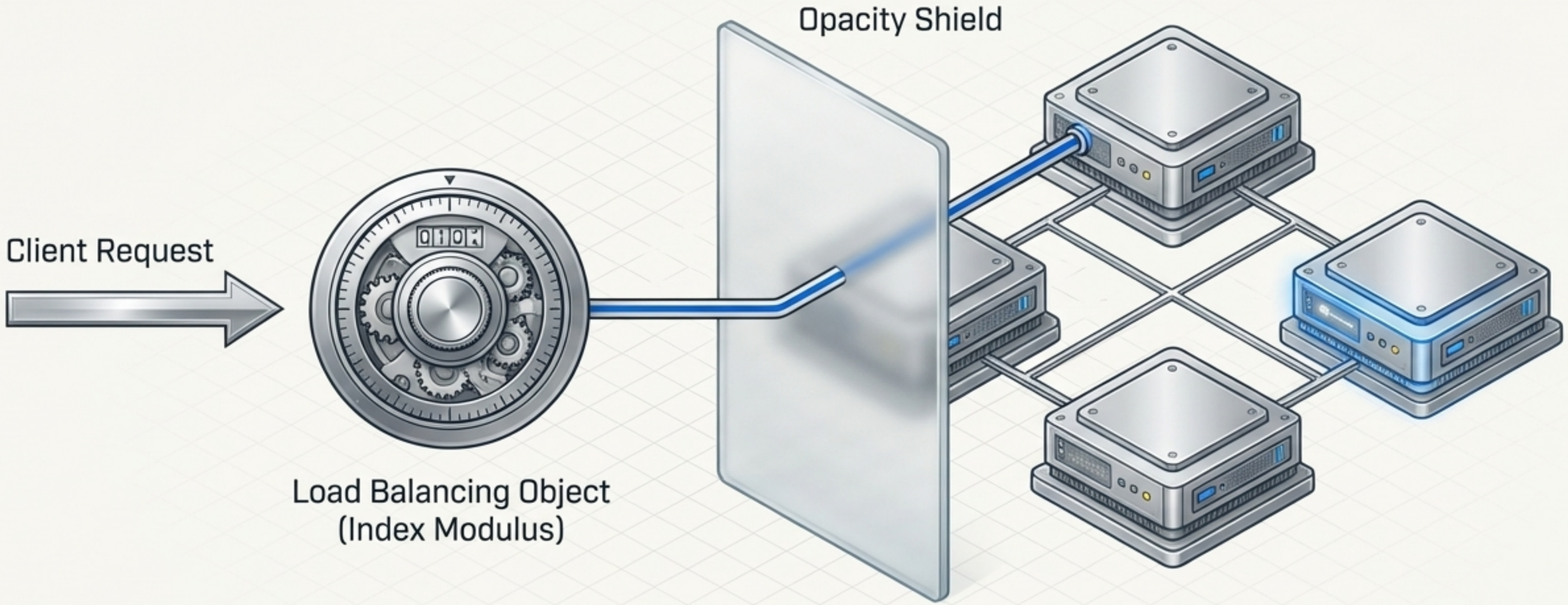
This layered trust foundation guarantees that the global single source of the truth cannot be altered, perfectly satisfying auditing and accounting requirements.

Enterprise Scale: Loosely Coupled Fault Tolerance



The observer notification model naturally creates a loosely coupled relationship. By eliminating direct connections, systems can seamlessly utilize **active-standby** redundancy without risking dropped direct sessions.

The Opaque Load Balancer



The protocol obscures specific server addresses from the client entity, enabling seamless, opaque, round-robin load balancing without any client-side configuration."

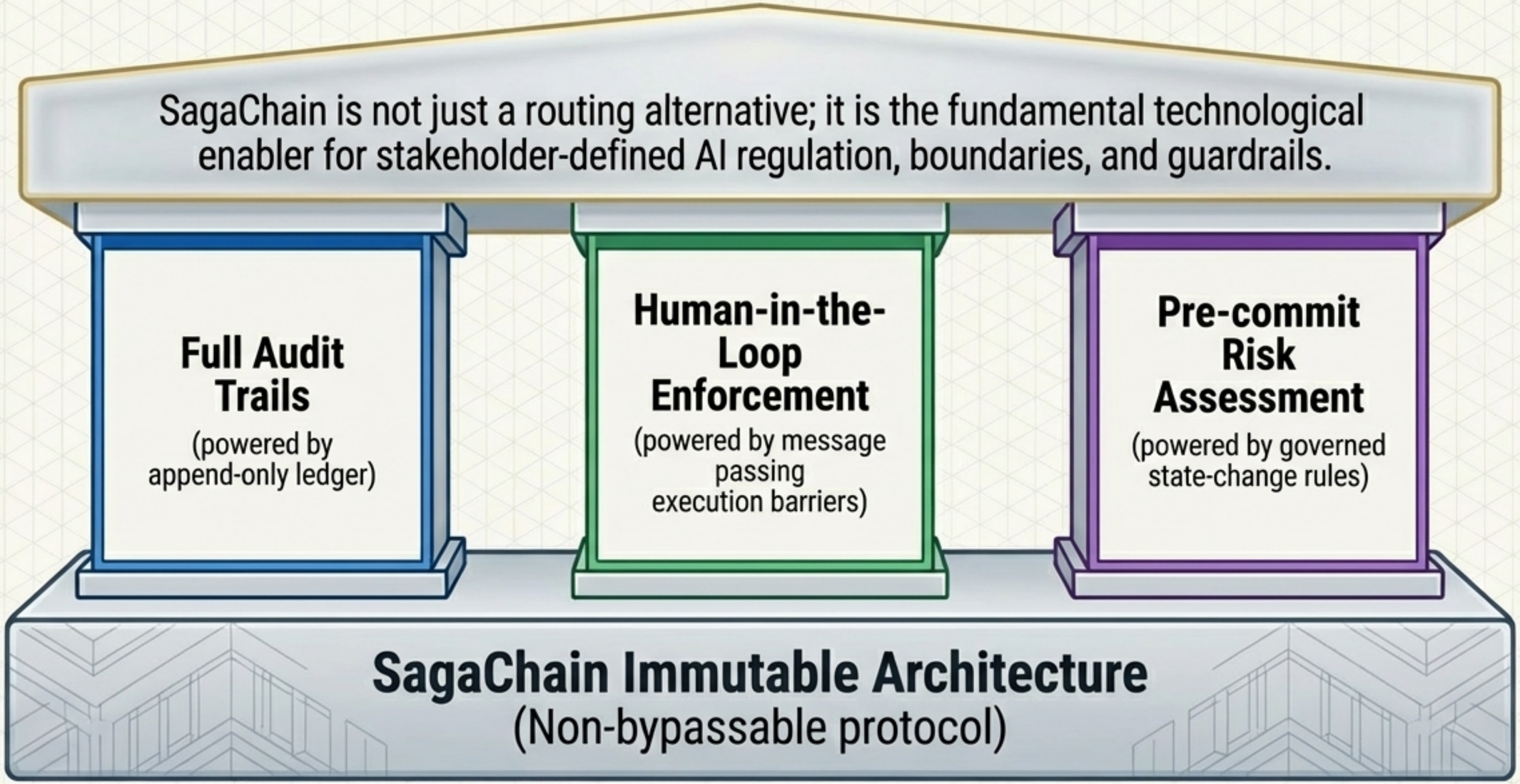
The ‘5 A’s’ Posture Matrix Resolved

	Standard Direct Protocols	SagaChain Model
Authentication	✓	✓
Authorization	✓	✓
Account Management	✗ (Disputable)	✓
Audit Logging	✗ (Disputable)	✓
Accountability	✗ (Disputable)	✓

Non-Disputable Resolution:

By forcing all interactions through an immutable ledger, reconciliation events are eliminated. The cryptographically secure history becomes the absolute truth.

From Protocol Execution to Global AI Governance



Architecture for an Accountable Future

SagaChain eliminates the need for post-event reconciliation. By replacing direct client-server connections with non-bypassable observer notifications, enterprise AI achieves absolute accountability.