

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Cap Table Modeling Engine for equity math.

Run precise dilution and exit waterfall simulations instantly.

Cap Table Modeling Engine gives your AI client the ability to handle complex equity math. It handles the heavy lifting of simulating how convertible notes turn into equity, how new option pools dilute existing holders, and exactly how much cash goes to each shareholder during a liquidity event.

cap-table

dilution

equity

finance

startup



The connectivity layer between AI and the world's software.



Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Cap Table Modeling Engine MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually building messy spreadsheets to answer basic equity questions. This MCP gives your agent the math engine it needs to model a company's capitalization table accurately. You can use it to see how a new funding round or an expanded option pool changes everyone's percentage. It handles the math for converting SAFEs and convertible notes based on your specific valuation targets. When you need to know what a sale actually means for shareholders, it runs the waterfall to distribute cash according to the current cap table. It's a direct way to get answers about ownership, dilution, and exit payouts without the manual error of a hand-built model.

Core Capabilities

01 — Dilution Modeling

Your agent calculates how new shares or option pools impact current ownership percentages.

02 — Instrument Conversion

The agent simulates turning SAFEs and notes into equity at specific valuations.

03 — Exit Payouts

Your agent runs waterfall calculations to see cash distributions during a sale.

04 — Ownership Audits

The agent checks the current state of the cap table to verify ownership levels.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/cap-table-modeling-engine — connect your AI agent in three steps.

- 01 Subscribe to the MCP on Vinkius.
- 02 Connect your AI client like Claude or Cursor with one click.
- 03 Ask your agent to run a simulation or query ownership.
- 04 Receive precise mathematical outputs directly in your chat interface.

Get your equity math running in your preferred AI client in minutes.

Built For

This MCP is built for people managing startup equity and financial planning.

Founders

Use it to model how new investment rounds will affect your own ownership.

Finance Leads

Hand off complex waterfall and dilution math to your agent for quick modeling.

Legal Professionals

Use it to simulate the impact of convertible instrument terms on the cap table.

What Changes When You Connect

-
- 01 Eliminates manual spreadsheet errors in equity math.
 - 02 Provides instant answers to 'what if' dilution scenarios.
 - 03 Automates the conversion math for SAFEs and convertible notes.
 - 04 Calculates exit payouts based on real cap table data.
-

Real-World Applications

Fundraising Prep

Model how a new seed or Series A round will dilute the current cap table.

Exit Strategy Analysis

Run a waterfall calculation to see what shareholders walk away with in a sale.

Option Pool Planning

Calculate the exact ownership impact of increasing the employee option pool.

Convertible Note Tracking

Simulate how notes convert into equity when a target valuation is hit.

4 Tools Available

#	TOOL	DESCRIPTION
01	query_current_ownership	This tool pulls the current distribution of ownership across the company. It shows you exactly who holds what percentage right now.
02	simulate_dilution	Use this to model how issuing new equity or expanding an option pool affects existing shareholders. It calculates the resulting ownership shifts.
03	calculate_exit_waterfall	This tool determines the specific cash amounts distributed to shareholders during a liquidity event. It follows the payout order for all stakeholders.
04	convert_instruments	This tool simulates the conversion of SAFEs and convertible notes into equity. It uses your target valuation and specific terms to find the new ownership levels.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What is the current ownership of the company?



The current shareholders are: Alice (40%), Bob (30%), and the Employee Pool (30%).

U How much will the shareholders receive if the company is sold for \$50,000,000?



Based on the exit waterfall, Alice will receive \$20,000,000, Bob will receive \$15,000,000, and the Employee Pool will receive \$15,000,000.

U What happens to ownership if we increase the option pool to 15%?



Increasing the option pool to 15% will result in Alice's ownership moving from 40% to 34%, Bob's from 30% to 25.5%, and the Employee Pool from 30% to 25.5%.

Frequently Asked Questions

01 How does this MCP handle SAFE conversions?

It uses the `convert_instruments` tool to simulate how SAFEs turn into equity based on your specific valuation and terms.

02 Can I use this with Cursor or VS Code?

Yes, this MCP works with any MCP-compatible client including Cursor, Windsurf, and VS Code.

03 Does it calculate exit payouts?

Yes, the `calculate_exit_waterfall` tool determines how cash is distributed to all shareholders during a liquidity event.

04 How do I see current ownership?

You can use the `query_current_ownership` tool to get the current distribution of the company.

05 Where is the data hosted?

Vinkius hosts and manages the MCP, so you don't have to run it locally or manage credentials yourself.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"cap-table-modeling-engine": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

Cap Table Modeling Engine is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Cap Table Modeling Engine MCP
Server ID	01a0a2a1-ddbf-729b-9c52-e4b4993f2e65
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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