

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

Convertible Note Conversion Engine

Get precise equity and conversion math for your cap table.

Convertible Note Conversion Engine handles the heavy lifting for convertible note math. It calculates conversion shares, effective prices, and investor equity percentages by processing principal, interest, valuation caps, and discount rates. Your AI client can model different financing scenarios or evaluate MFN clauses without manual spreadsheet errors.

A+ Quality Score 100/100

convertible-notes

equity

valuation-cap

dilution

cap-table



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.

Convertible Note Conversion Engine MCP

4 tools available

Cloud-hosted on Vinkius

Managing convertible notes shouldn't involve manual math errors in a spreadsheet. This MCP gives your AI client the ability to run precise financial models for note conversions. You can feed it principal amounts, interest rates, valuation caps, and discount rates to get immediate answers on conversion shares and equity ownership.

Whether you are looking at a single note or need to see how a whole round of notes impacts your cap table, this tool handles the math. You can test how different valuation caps change your dilution or check if a Most Favored Nation clause applies to a specific holder. It turns your agent into a specialized financial analyst that understands the relationship between debt, interest, and equity conversion.

Core Capabilities

01 — Single Note Math

Your agent calculates shares and prices for an individual note.

02 — Multi-Note Aggregation

Your agent sums the total impact of multiple notes converting simultaneously.

03 — MFN Clause Evaluation

Your agent checks if note holders qualify for better terms under MFN provisions.

04 — Scenario Modeling

Your agent compares how different caps or discounts change equity ownership.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/convertible-note-conversion-engine — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius platform.
- 02 Provide the note details like principal, interest, and cap to your agent.
- 03 The agent calls the specific conversion tool needed.
- 04 Receive precise share counts and equity percentages in your chat interface.

Connect your AI client to Vinkius to start running financial models immediately.

Built For

This MCP is built for professionals managing equity and debt in early-stage companies.

Founders

Use it to model dilution before signing new convertible notes.

Venture Capitalists

Use it to verify the conversion terms and equity stakes of their investments.

Finance Operations

Use it to automate the math for cap table updates during financing rounds.

What Changes When You Connect

- 01 Eliminates manual calculation errors in equity modeling.
- 02 Provides instant comparisons between different valuation caps.
- 03 Automates the checking of MFN clause eligibility.

04 Aggregates multiple notes to show total dilution impact.

Real-World Applications

Dilution Modeling

Calculate how much equity is lost when multiple convertible notes convert during a priced round.

MFN Verification

Determine if a new note with better terms triggers a Most Favored Nation adjustment for existing holders.

Term Comparison

Compare a \$4M cap against a \$6M cap to see the exact difference in ownership percentage.

Cap Table Prep

Generate a summary of conversion shares and effective prices for a financing update.

4 Tools Available

#	TOOL	DESCRIPTION
01	aggregate_multiple_notes	This tool sums the impact of several convertible notes converting at the same time. It calculates the total dilution caused by a group of notes.
02	calculate_mfn_adjustment	This tool evaluates Most Favored Nation clauses. It determines if a note holder is entitled to switch to better terms based on new issuances.
03	compare_scenarios	This tool models different financing outcomes. It shows the difference in equity ownership between two distinct scenarios.
04	get_conversion_summary	This tool provides the primary conversion metrics for a single note. It outputs shares and price data for one specific instrument.

See It in Action

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

- U** Calculate the conversion for a \$100,000 note with 5% interest, a \$5,000,000 valuation cap, a 20% discount, and a next round price of \$1.00 with 10,000,000 pre-money shares.



The total conversion amount is \$105,000. With a cap price of \$0.50 and a discount price of \$0.80, the conversion price is \$0.50. This results in 210,000 conversion shares and an equity percentage of 2.05%.

- U** Compare two scenarios: Scenario A has a \$4M cap and Scenario B has a \$6M cap, both with a 20% discount and \$1.00 next round price, given 10,000,000 pre-money shares.



Scenario A results in a higher equity stake due to the lower valuation cap. The equity delta between the two scenarios is 0.55%.

- U** I have a note with a \$5M cap and 10% discount. A new note is issued with a \$4M cap and 15% discount. Should I switch terms?



Yes, switching to the new terms is more favorable as both the valuation cap is lower and the discount rate is higher.

Frequently Asked Questions

01 What can this MCP calculate?

It calculates conversion shares, effective price per share, and investor equity percentages based on note terms.

02 Can I model multiple notes at once?

Yes, the `aggregate_multiple_notes` tool calculates the combined impact of several notes converting at the same time.

03 How does it handle MFN clauses?

The `calculate_mfn_adjustment` tool determines if a note holder should switch to more favorable terms based on an MFN clause.

04 Which AI clients can use this?

You can use this with any MCP-compatible client, including Claude, Cursor, Windsurf, and VS Code.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you. You just connect your client and start using the tools.

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>"convertible-note-conversion-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

Convertible Note Conversion 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

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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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