

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

Investor Return Multiple Calculator MCP

Model complex venture capital exit waterfalls and returns.

Investor Return Multiple Calculator is a specialized financial MCP for modeling venture capital exit scenarios. It lets your AI agent handle the heavy lifting of calculating liquidation preferences, participating preferred rights, and participation caps. You can quickly determine specific proceeds, MOIC, and Net IRR without manual spreadsheet modeling.

A+ Quality Score 100/100

waterfall

irr

moic

liquidation-preference

exit-modeling



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.

Investor Return Multiple Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop building complex waterfall spreadsheets every time you need to model a new exit scenario. This MCP gives your AI client the math engine required to simulate venture capital exit structures accurately. Whether you are looking at participating preferred rights or specific participation caps, your agent can run the numbers in seconds.

Instead of manually calculating how much cash goes to which stakeholder, you can use this MCP to simulate how different exit values impact investor returns. It handles the logic for liquidation preferences and checks if an exit value actually covers what investors are owed. You can model the specific dollar amounts distributed to investors, calculate the Multiple of Invested Capital (MOIC), and determine the Net Internal Rate of Return (IRR) based on the time elapsed until the exit. It turns your AI agent into a specialized financial analyst that understands the nuances of cap table distributions and exit waterfalls.

Core Capabilities

01 — Waterfall Modeling

Your agent uses this to simulate how exit proceeds are distributed among stakeholders.

02 — Liquidation Preference Checks

The AI uses this to verify if an exit covers the required preference amounts.

03 — Performance Metrics

Your agent calculates MOIC and Net IRR to evaluate investment success.

04 — Participation Logic

The tool handles the math for participating preferred rights and participation caps.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/investor-return-multiple-calculator — connect your AI agent in three steps.

01 Connect the MCP to your client like Claude or Cursor via Vinkius.

02 Provide your investment and exit data to your AI agent.

03 The agent invokes the specific tool needed for the calculation.

04 The MCP returns the precise financial result to your agent.

05 Your agent presents the final distribution or return metric to you.

You connect the MCP to your AI client and start asking financial questions directly.

Built For

This MCP is built for professionals managing venture capital portfolios and cap table modeling.

Venture Capitalist

Use it to model potential returns on portfolio companies during exit planning.

Financial Analyst

Hand off the repetitive waterfall math to your agent to focus on higher level strategy.

Startup Founder

Model how different exit amounts will impact equity holders and liquidation preferences.

What Changes When You Connect

01 Eliminates manual error in complex waterfall calculations.

02 Provides instant IRR and MOIC results for any exit scenario.

- 03

Validates exit feasibility against liquidation preferences immediately.
- 04

Handles complex participation rights without manual spreadsheet updates.

Real-World Applications

Exit Scenario Simulation

Model how a \$50M exit compares to a \$200M exit for a specific investor.

Performance Tracking

Calculate the annualized Net IRR for a fund based on realized exit proceeds.

Preference Verification

Check if a mid-market exit provides enough liquidity to satisfy preferred shareholders.

Cap Table Analysis

Determine the exact dollar distribution for participating preferred holders.

4 Tools Available

#	TOOL	DESCRIPTION
01	get_annualized_return	This tool calculates the Net Internal Rate of Return (IRR). It uses the time elapsed until an exit to determine the annualized performance.
02	get_exit_distribution	This tool determines the specific dollar amount distributed to an investor. It accounts for the specific exit structure and preference rights.
03	get_return_multiples	This tool calculates the investment performance in terms of multiples. It provides the MOIC for a given exit scenario.
04	validate_exit_feasibility	This tool checks if a proposed exit value is high enough to cover an investor's liquidation preference. It identifies if there is a shortfall.

See It in Action

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

U An investor put in \$5M for 10% equity. The company exited for \$100M. They have participating preferred rights with no cap. How much do they get?



The investor receives \$14.5M. This includes their \$5M liquidation preference plus their 10% share of the remaining \$95M (\$9.5M).

U Calculate the IRR for a \$2M investment that returned \$10M after 5 years.



The Net IRR for this investment is 38.0%.

U If the exit value is \$4M and the liquidation preference is \$5M, is the exit feasible?



No, the exit is not sufficient to cover the preference. There is a shortfall of \$1,000,000.

Frequently Asked Questions

01 What can this MCP calculate?

It calculates exit distributions, return multiples (MOIC), annualized Net IRR, and exit feasibility based on liquidation preferences.

02 How does it handle participating preferred rights?

The MCP simulates the distribution of proceeds by accounting for both the liquidation preference and the additional participation in the remaining proceeds.

03 Can I use this with Claude or Cursor?

Yes, you can connect this MCP to any MCP-compatible client including Claude, Cursor, and Windsurf.

04 Does it check if an exit is enough to cover preferences?

Yes, the `validate_exit_feasibility` tool specifically checks if the exit value covers the investor's liquidation preference.

05 Is this a manual spreadsheet replacement?

It acts as a specialized math engine for your AI agent, allowing you to perform waterfall modeling through natural language instead of manual cell formulas.

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>"investor-return-multiple-calculator": { "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

Investor Return Multiple Calculator 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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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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