

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

Expansion Revenue Analysis MCP

Turn raw revenue data into actionable growth insights.

Expansion Revenue Analysis MCP lets your AI client break down customer growth into specific drivers. Instead of guessing why revenue is up, you can use your agent to calculate net revenue retention, identify upsell patterns, and check if your growth is coming from product depth or new customer acquisition.

revenue

retention

expansion

saas

metrics



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.

Expansion Revenue Analysis MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually calculating growth percentages in spreadsheets. This MCP gives your AI agent the ability to dissect your revenue streams and tell you exactly where your growth is coming from. By feeding your revenue data into your client, you can instantly see if your expansion is driven by existing customers buying more features or by price increases. It handles the heavy lifting of calculating net revenue retention (NRR) and expansion rates, so you can focus on the strategy. You'll be able to see if your growth is healthy by comparing expansion numbers against churn, or if you're just masking a leaky bucket. It's a direct way to turn messy financial inputs into clear metrics about product depth and revenue stability.

Core Capabilities

01 — NRR Calculation

Your agent uses this to determine net revenue retention from raw upsell and churn data.

03 — Retention Health Checks

Your agent compares expansion against churn to verify if revenue growth is stable.

02 — Growth Driver Identification

Your agent analyzes the revenue mix to see if growth comes from upsells or price hikes.

04 — Expansion Pattern Analysis

Your agent identifies if growth is driven by product depth or breadth.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/expansion-revenue-analysis — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Provide your revenue data (base, upsell, cross-sell, churn) to your agent.
- 03 Ask your agent to run specific expansion or retention tools.
- 04 Receive immediate, calculated metrics and growth driver analysis.

Get your financial data into your AI client and start asking questions.

Built For

This MCP is built for finance and operations teams managing subscription-based business models.

SaaS Finance Analysts

They hand off raw revenue numbers to the agent to get instant NRR and expansion reports.

Revenue Operations

They use the agent to identify which expansion triggers are actually driving growth.

CS Leaders

They use the tool to check if expansion is offsetting churn effectively.

What Changes When You Connect

- 01 Calculates NRR and expansion rates without manual spreadsheet formulas.
- 02 Identifies whether growth comes from product depth or price increases.

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- 03 Connects expansion metrics to churn to measure revenue stability.
 - 04 Breaks down revenue composition into upsell, cross-sell, and price hikes.
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Real-World Applications

Monthly Board Reporting

Your agent generates the exact expansion and retention percentages needed for financial reviews.

Churn Impact Analysis

You check retention health to see if expansion is enough to cover customer losses.

Growth Strategy Audits

You use the revenue mix tool to see if your current expansion strategy is working.

Pricing Model Validation

You analyze how much of your growth is coming from price increases versus feature adoption.

4 Tools Available

#	TOOL	DESCRIPTION
01	get_expansion_metrics	This tool calculates your core growth and retention percentages from your revenue inputs.
02	get_expansion_triggers	This tool identifies the qualitative nature of your growth based on specific revenue patterns.
03	get_retention_health	This tool evaluates the relationship between expansion and churn to see if your growth is sustainable.
04	get_revenue_mix	This tool analyzes how your expansion revenue is composed to find your primary growth drivers.

See It in Action

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

U Calculate the expansion metrics for a base revenue of 100000, upsell of 20000, cross-sell of 15000, price increase of 5000, and churn of 10000.



The expansion rate is 40%, the net revenue retention is 130%, the total expansion revenue is 40000, and the net growth is 30000.

U What is the revenue mix if upsell is 5000, cross-sell is 3000, and price increase is 2000?



The expansion revenue consists of 50% upsell, 30% cross-sell, and 20% price increases.

U Analyze the expansion triggers for upsell: 50000, cross-sell: 10000, price increase: 5000.



The primary driver is Product Depth, the growth strategy focuses on usage-based expansion, and the stability index is High.

Frequently Asked Questions

01 What metrics can this MCP calculate?

It calculates expansion rates, net revenue retention (NRR), total expansion revenue, and net growth.

02 How does it help with growth analysis?

It uses the revenue mix and expansion triggers tools to show if growth is coming from product depth, cross-selling, or price increases.

03 Can I use this with Claude or Cursor?

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

04 Does this MCP handle churn?

Yes, it uses churn data to calculate net growth and to evaluate overall retention health.

05 What is the difference between upsell and cross-sell in these metrics?

The MCP treats them as distinct drivers in the revenue mix to help you understand your specific growth patterns.

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>"expansion-revenue-analysis": { "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

Expansion Revenue Analysis 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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