MCP SERVER | NO CODE | CLOUD HOSTED

Churn Rate Analysis MCP

Track customer loss and revenue health through your AI client.

Churn Rate Analysis MCP gives your AI agent the ability to calculate customer retention, net growth, and the financial impact of churn. Instead of manually calculating percentages, you can ask your AI client to break down why customers are leaving or how much revenue is at risk based on your current user data.

A+ Quality Score 100/100

churn | retention | revenue | metrics | cohort

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vinkius.com/en/ai-agent-connect/churn-rate-analysis

SCAN TO VIEW

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

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.

Churn Rate Analysis MCP

4 tools available
Cloud-hosted on Vinkius

Stop running manual spreadsheets to figure out why your revenue is dipping. This MCP gives your AI client direct access to the metrics that actually matter for your business health. You can use it to see if your user base is actually growing when you factor in new signups, or if you're just losing customers as fast as you find them. It breaks down the difference between people leaving because they chose to and people leaving because of payment failures. You'll get a clear picture of your revenue impact, helping you see exactly how much monthly recurring revenue is walking out the door. It turns your AI agent into a specialized retention analyst that can report on churn composition and net status in seconds.

Core Capabilities

01 — Retention Tracking

Your agent uses this to monitor how many customers stay over time.

02 — Growth Assessment

The AI calculates net growth by weighing new signups against churned users.

03 — Financial Loss Analysis

Your client identifies the specific dollar amount lost to customer departures.

04 — Churn Categorization

The AI separates intentional cancellations from unintentional billing issues.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/churn-rate-analysis** — connect your AI agent in three steps.

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

02 Provide your customer and revenue data to the AI agent.

03 Ask specific questions about churn rates or revenue impact.

04 The AI invokes the necessary tools to run the calculations.

05 Receive immediate, calculated answers directly in your chat interface.

You connect the MCP to your AI client and start asking questions about your data.

Built For

This MCP is built for professionals managing subscription-based businesses and recurring revenue models.

SaaS Founders

They ask the AI to check if their growth is sustainable.

Finance Analysts

They use the AI to calculate revenue impact and churn rates.

Customer Success Managers

They rely on the AI to identify patterns in customer departures.

What Changes When You Connect

01 Eliminates manual churn math by letting your AI client do the calculation.

02 Identifies the difference between voluntary and involuntary churn automatically.

03	Provides a real-time view of net growth by accounting for new acquisitions.
04	Connects directly to your existing AI workflow in Claude or Cursor.

Real-World Applications

Monthly Business Reviews

Ask your agent to summarize the month's churn and revenue impact for a report.

Growth Audits

Use the net churn status to see if your acquisition efforts are outpacing your losses.

Revenue Risk Assessment

Determine how much MRR is at risk by analyzing revenue churn impact.

Churn Reason Analysis

Use churn composition to see if you have a product problem or a billing problem.

4 Tools Available

#	TOOL	DESCRIPTION
01	`get_churn_composition`	This tool breaks down why customers are leaving. It distinguishes between voluntary departures and involuntary losses like failed payments.
02	`get_customer_churn_metrics`	This tool calculates your basic churn percentage. It shows the specific proportion of customers lost during a set timeframe.
03	`get_net_churn_status`	This tool determines if your total user base is growing or shrinking. It factors in new customer acquisitions against your losses.
04	`get_revenue_churn_impact`	This tool measures the financial damage of customer loss. It calculates the specific impact on your revenue streams.

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 churn rate if I started with 100 customers and lost 5 this month?

The customer churn rate for this period is 5%.

U Is my business growing? I had 500 customers, lost 20, but gained 50 new ones.

Your customer base is Growing, with a net churn rate of -6%.

U Calculate the revenue impact: we had $10,000 MRR and lost $1,000 due to cancellations.

The revenue churn rate is 10% and the revenue retention rate is 90%.

Frequently Asked Questions

01 **How does this MCP calculate churn?**

The MCP uses specific tools to calculate the percentage of customers lost over a period or the financial impact of those losses.

02 **Can I see if my business is actually growing?**

Yes, you can use the net churn status tool to see if your new customer acquisitions are offsetting your losses.

03 **What is the difference between voluntary and involuntary churn?**

The churn composition tool distinguishes between customers who choose to leave and those who leave due to unintentional reasons like payment failures.

04 **Which AI clients can I use this with?**

You can use this MCP with any 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, so it is ready to use immediately after you connect.

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 `"churn-rate-analysis": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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

Churn Rate 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 →

INDEPENDENT PLATFORM DISCLAIMER

DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Churn Rate Analysis MCP
Server ID	`01a0a349-5acc-7125-ac31-8e0e9668815b`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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