

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

Provider Bill & Claim Reconciliation MCP

Catch billing errors and verify patient responsibility instantly.

Provider Bill & Claim Reconciliation MCP lets your AI client audit medical invoices against insurance benefit schedules and EOBs. It finds pricing mismatches, calculates what patients actually owe, and organizes the document sequences you need to resolve billing disputes or complete audits.

medical-billing

insurance

reconciliation

audit

healthcare-finance



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.

Provider Bill & Claim Reconciliation MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to automate the tedious work of medical billing audits. Instead of manually comparing line items across multiple documents, you let your agent handle the heavy lifting. It looks at provider invoices, insurance benefit schedules, and Explanations of Benefits to spot where the numbers don't add up. If a provider charges more than the allowed amount in a benefit schedule, your agent catches it. It also handles the math for patient responsibility, ensuring that copays and deductibles are applied correctly based on the specific coverage rules. When you find a mismatch, the MCP helps you organize the exact sequence of documents required to prove the error. It's built to ensure that every claim you review is consistent and that the clinical service periods match the submitted paperwork.

Core Capabilities

01 — Discrepancy Detection

Your agent identifies pricing or coverage errors by comparing invoices to benefit schedules.

02 — Patient Math

The MCP calculates exact patient owes based on copays and deductibles.

03 — Document Validation

Your agent verifies that all documents in a claim belong to the same service period.

04 — Audit Preparation

The tool generates a logical sequence of documents to support a dispute or audit.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/provider-bill-claim-reconciliation — connect your AI agent in three steps.

- 01
- Connect your preferred MCP-compatible client to Vinkius.
- 02
- Upload or provide the medical billing documents to your agent.
- 03
- Ask your agent to analyze discrepancies or calculate patient responsibility.
- 04
- Review the findings and the generated evidence sequence.

Connect your AI client to Vinkius to start auditing medical claims immediately.

Built For

This MCP is designed for professionals managing healthcare finances and insurance claims.

Medical Billers

They hand off document comparison and patient responsibility math to the agent.

Insurance Auditors

They use the tool to find mismatches and organize evidence for claims reviews.

Revenue Cycle Managers

They use the tool to ensure claim integrity and identify systemic billing errors.

What Changes When You Connect

- 01
- Reduces manual math errors in patient responsibility calculations.
- 02
- Flags pricing mismatches between invoices and insurance schedules.

03 Organizes document flows for audit-ready evidence.

04 Confirms clinical service period consistency across claim files.

Real-World Applications

Resolving Overcharges

Your agent identifies when a provider's invoice exceeds the allowed amount in the benefit schedule.

Patient Billing Accuracy

You use the tool to confirm that a patient's copay and deductible were applied correctly.

Audit Readiness

The MCP builds the necessary document sequence to prove a claim discrepancy during an audit.

Claim Integrity Checks

You verify that all documents submitted for a claim actually match the same clinical visit.

Patterns to Avoid

Manual math verification

❌ AVOID

You try to manually calculate patient copays by looking at three different PDFs at once. It takes twenty minutes and you might miss a digit.

✓ INSTEAD

Let your agent do the math. Use ``calculate_patient_responsibility`` to get the exact amount owed based on the insurance schedule.

Blindly accepting invoice totals

❌ AVOID

You pay a provider invoice immediately because the total looks correct at first glance.

✓ INSTEAD

Run ``analyze_reconciliation_discrepancies`` first to see if the provider is charging more than the allowed benefit amount.

Disorganized audit evidence

❌ AVOID

You send a random pile of medical records to an auditor hoping they see the error you found.

✓ INSTEAD

Use `generate\_evidence\_sequence` to create a logical, chronological order of documents that proves the discrepancy.

The Right Fit

Medical billers and revenue cycle managers should connect this MCP if they handle high volumes of insurance claims. If your workflow only involves single, simple invoices with no insurance complexity, you don't need this. The deciding factor is whether you need to cross-reference provider charges against specific benefit schedules.

Provider Bill and Claim Reconciliation Tools

These tools automate the comparison of invoices, benefit schedules, and clinical records to catch billing errors.

#	TOOL	DESCRIPTION
01	analyze_reconciliation_discrepancies	Use this tool to find mismatches between different medical billing documents.
02	calculate_patient_responsibility	This tool calculates the exact amount a patient owes by cross-referencing the invoice with the insurance benefit schedule.
03	generate_evidence_sequence	This tool determines the logical and chronological order of documents you need to resolve a specific discrepancy.
04	validate_claim_integrity	This tool checks that all submitted documents belong to the same clinical visit or service period.

See It in Action

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

Identify any mismatches in these billing documents.



The discrepancy report shows a pricing error of \$50.00 on line item 'Consultation' because the invoice charge exceeds the allowed amount in the benefit schedule.

How much should the patient pay for this service?



The total patient responsibility is \$45.00, consisting of a \$20.00 copay and a \$25.00 deductible application.

What is the order of documents I need to submit for an audit?



To resolve this overcharge, you should first provide the Invoice, followed by the Benefit Schedule, then the EOB, and finally the Receipt.

Frequently Asked Questions

01 What can this MCP do with medical invoices?

It compares invoices against benefit schedules and EOBs to find pricing or coverage errors.

02 How does it handle patient responsibility?

The tool calculates exactly what a patient owes by looking at the intersection of the invoice and the insurance benefit schedule.

03 Can it help with medical audits?

Yes, it can identify mismatches and generate a chronological sequence of documents needed to resolve discrepancies.

04 Does it check if claims are valid?

It includes a tool to validate claim integrity by ensuring all documents belong to the same clinical visit.

05 Which AI clients can use this MCP?

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

06 What kind of discrepancies can this tool find?

It identifies pricing errors, coverage mismatches, payment discrepancies, and duplicate billing using ``analyze_reconciliation_discrepancies``.

07 How do I know if my documents belong to the same claim?

You can use the ``validate_claim_integrity`` tool to verify that all submitted documents share the same provider ID and service period.

08 Can I calculate how much a patient owes?

Yes, the ``calculate_patient_responsibility`` tool determines the expected copay, deductible, and total amount owed based on the benefit schedule.

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>"provider-bill-claim-reconciliation": { "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

Provider Bill & Claim Reconciliation 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	https://edge.vinkius.com/{token}/mcp

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