MCP SERVER | NO CODE | CLOUD HOSTED

Inventory Unit Total MCP

Keep your stock counts accurate across every warehouse location.

Inventory Unit Total MCP gives your AI agent the ability to manage and audit stock levels. It handles the heavy lifting of reconciling physical counts against your ledger, breaking down product availability by specific site, and calculating exact discrepancies. You can connect it to Claude, Cursor, or Windsurf to turn your agent into a real-time inventory auditor.

A+ Quality Score 100/100

inventory | stock | audit | warehouse | logistics

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vinkius.com/en/ai-agent-connect/inventory-unit-total

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.

Inventory Unit Total MCP

4 tools available
Cloud-hosted on Vinkius

Managing stock across multiple sites usually means jumping between spreadsheets and warehouse management systems. This MCP changes that by giving your AI client direct access to your inventory data. Instead of manually checking every location, you can ask your agent to find exactly where a specific product is sitting or how much total volume a single warehouse is holding.

It is built for reconciliation work. If you suspect a mismatch between what your system says and what is actually on the shelf, your agent can run the math to find the exact discrepancy. You can also get a granular view of how stock is distributed, seeing exactly how many units are in Warehouse A versus Warehouse B. It turns your AI into a specialized logistics tool that can audit, aggregate, and report on stock levels without you having to run manual queries.

Core Capabilities

01 — Stock Reconciliation

Your agent uses this to find the gap between ledger records and physical counts.

02 — Site Auditing

Your agent calculates the total volume of goods held at a specific warehouse.

03 — Location Tracking

Your agent breaks down product availability by individual storage sites.

04 — Global Stock Checks

Your agent pulls the total quantity of a single SKU across all locations.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/inventory-unit-total** — connect your AI agent in three steps.

01 Connect your preferred MCP-compatible client to Vinkius.

02 Select the Inventory Unit Total MCP from the catalog.

03 Ask your AI agent to perform a stock check or audit.

04 The agent executes the specific tool to pull real-time data.

05 Receive the calculated totals or discrepancy reports immediately.

Connecting this MCP to your workflow is a single-step process that enables direct data interaction.

Built For

This MCP is built for professionals managing physical goods and logistics workflows. It allows them to hand off repetitive counting and auditing tasks to an AI agent.

Warehouse Manager

Uses the agent to quickly audit site volumes and check for stock mismatches.

Inventory Controller

Hands off the task of reconciling physical counts against digital ledgers.

Supply Chain Analyst

Uses the tool to get instant breakdowns of product distribution across sites.

What Changes When You Connect

01 Identifies stock mismatches through automated discrepancy calculations.

02 Aggregates total site volumes without manual data entry.

03 Provides instant product availability across multiple warehouse locations.

04 Reduces the time spent reconciling physical counts with digital records.

Real-World Applications

End-of-Month Audits

Your agent compares physical counts to system records to find missing items.

Warehouse Capacity Planning

You ask the agent for the total volume at a site to see how much space remains.

Stock Redistribution

The agent identifies which locations have excess stock of a specific product.

Discrepancy Investigation

You use the agent to pinpoint exactly where a product count went wrong.

Patterns to Avoid

Manual Spreadsheet Reconciliation

AVOID

You spend three hours copying rows from a warehouse report into a spreadsheet to find missing items.

✓ INSTEAD

Let your agent do the math for you. Use `calculate_inventory_discrepancy` to instantly find the gap between your records and physical counts.

Vague Stock Inquiries

AVOID

You ask your agent if you have enough stock to fulfill a large order without specifying which product or location.

✓ INSTEAD

Be specific about what you need. Use `get_product_stock_level` to pull the exact total for a single SKU across all your sites.

Blind Site Auditing

AVOID

You try to guess how much space is left in a warehouse by looking at individual item counts.

✓ INSTEAD

Get the big picture immediately. Use `aggregate_site_total` to see the total volume of goods held at a specific warehouse.

The Right Fit

Logistics managers and inventory controllers should connect this MCP if they handle physical goods across multiple sites. If you only manage digital assets or a single, static storage location, you don't need this. The deciding factor is whether you currently spend time reconciling physical counts against digital records.

Inventory Unit Total: 4 Specialized Inventory Tools

These tools give your agent direct access to stock levels, site volumes, and discrepancy math.

#	TOOL	DESCRIPTION
01	`aggregate_site_total`	This tool pulls the total inventory volume for a single specific site or warehouse.
02	`calculate_inventory_discrepancy`	This tool calculates the difference between your expected stock levels and the actual physical count. It identifies exactly how many units are missing or overages.
03	`get_location_inventory`	This tool provides a detailed breakdown of where a specific product is stored across different locations.
04	`get_product_stock_level`	This tool returns the total number of units available for a specific product across your entire system.

See It in Action

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

U How many total units of product PROD-123 do we have in the entire system?

There are 550 total units of product PROD-123 stored across 3 different locations.

U Is there a mismatch for product PROD-999? We expected 100 units but only counted 95.

Yes, there is a discrepancy of 5 units for product PROD-999.

U What is the total inventory volume at Warehouse-A?

Warehouse-A holds a total of 1250 units across 12 unique products.

Frequently Asked Questions

01 **What AI clients can I use with this MCP?**

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

02 **How does the MCP handle inventory discrepancies?**

The agent uses the calculate_inventory_discrepancy tool to compare expected stock against physical counts.

03 **Can I see where a product is stored?**

Yes, the get_location_inventory tool provides a breakdown of a product's location across your sites.

04 **Do I need to host this myself?**

No, Vinkius hosts and manages the MCP for you, so it is ready to use as soon as you connect.

05 **Can I get total counts for a specific warehouse?**

Yes, the aggregate_site_total tool allows your agent to pull the total volume for any specific site.

06 **How can I check the total stock for a specific item?**

You can use the `get_product_stock_level` tool by providing the unique product identifier.

07 **How do I identify if there is a stock mismatch?**

Use the `calculate_inventory_discrepancy` tool with the expected ledger quantity and the actual physical count.

08 **Can I see where my products are stored?**

Yes, the `get_location_inventory` tool provides a breakdown of a product's inventory across all registered locations.

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 `"inventory-unit-total": { "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

Inventory Unit Total 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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