MCP SERVER | NO CODE | CLOUD HOSTED

Product Cost Total MCP.

Track manufacturing costs and audit budget accuracy instantly.

Product Cost Total MCP lets your AI client manage and audit manufacturing expenses. You can pull specific component prices, calculate the total cost of a finished product, sum up costs for specific value tiers, and run budget audits to catch discrepancies between expected and actual costs.

A+ Quality Score 100/100

cost-analysis | inventory-management | product-costing | audit | supply-chain

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vinkius.com/en/ai-agent-connect/product-cost-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.

Product Cost Total MCP

4 tools available
Cloud-hosted on Vinkius

You can stop manually tracking component prices in spreadsheets. This MCP gives your AI agent direct access to your manufacturing cost data. When you need to know how much a specific part costs, your agent pulls that price immediately. If you are building a finished good, the agent sums up every constituent part to give you a complete cost profile. You can also group products by value tiers to see where your capital is tied up. If your actual costs don't match your budget, your agent can run an audit to find exactly where the overruns or underruns happened. It turns your AI client into a specialized financial auditor for your supply chain and inventory.

Core Capabilities

01 — Component Pricing

Your agent pulls individual part costs to build accurate cost models.

02 — Total Product Costing

The agent calculates the full manufacturing cost of any item based on its parts.

03 — Tiered Cost Aggregation

Your agent sums up costs for entire categories or value tiers at once.

04 — Budget Auditing

The agent compares actual costs against your targets to find discrepancies.

One Click on Vinkius — From Prompt to Execution

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

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

02 Ask your agent to perform a specific cost task.

03 The agent calls the necessary tools to pull data or run math.

04 Your agent delivers the final cost, audit result, or total to you.

Connecting this MCP to your AI client gives your agent immediate access to your cost data.

Built For

This MCP is built for professionals managing manufacturing workflows and supply chain finances.

Production Managers

They hand off the task of calculating real-time manufacturing costs to their agent.

Inventory Controllers

They use the agent to audit component pricing and value tiers.

Supply Chain Analysts

They rely on the agent to identify budget overruns and cost discrepancies.

What Changes When You Connect

01	Automates the math for multi-part product costing.
02	Identifies budget overruns by comparing actuals to references.
03	Groups costs by value tiers for faster financial reporting.
04	Provides direct access to component-level pricing data.

Real-World Applications

Manufacturing Costing

Calculate the exact cost of a new product by totaling its component parts.

Budget Oversight

Run an audit to see if a product's current cost exceeds the planned budget.

Inventory Valuation

Sum the total value of all products within a specific tier like High-Value.

Price Monitoring

Check the current base cost of a specific component before starting production.

Patterns to Avoid

Manual Spreadsheet Reconciliation

✗ AVOID

You spend three hours copying component prices from a PDF into a spreadsheet to find a total.

✓ INSTEAD

Let your agent do the math. Use `calculate_product_total` to get the final number instantly based on the parts list.

Vague Budget Checks

AVOID

You notice a profit margin dip and guess which product line is causing the issue.

✓ INSTEAD

Run a precise audit. Use `audit_cost_discrepancy` to pinpoint exactly where costs are deviating from your targets.

Fragmented Category Analysis

AVOID

You try to estimate the total value of your high-end inventory by adding up individual items one by one.

✓ INSTEAD

Use `aggregate_category_costs` to sum the financial weight of an entire value tier in one command.

The Right Fit

Connect this MCP if you manage manufacturing costs or supply chain budgets and need real-time pricing data. Do not connect it if your cost data lives in disconnected, non-standardized documents that your agent cannot read. The deciding factor is whether your component and product cost data is structured enough for an agent to query.

Product Cost Total: 4 Specialized Financial Tools

These tools give your agent direct access to component pricing, product totals, and budget auditing.

#	TOOL	DESCRIPTION
01	`aggregate_category_costs`	This tool sums the total costs for all products within a specific value tier. It helps you see the cumulative financial weight of different product categories.
02	`audit_cost_discrepancy`	This tool compares a calculated product cost against your reference value. It identifies if you are facing budget overruns or underruns.
03	`calculate_product_total`	This tool computes the full cost of a single product. It looks at every part used to build the item to find the final number.
04	`get_component_cost`	This tool retrieves the base price for a specific component. It provides the raw data needed for larger cost calculations.

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 total cost for product P-100 if it uses 2 units of component C-01 and 1 unit of component C-02?

The total cost for product P-100 is $150.00.

U Check if the cost for product P-500 matches my budget of $500.

The product P-500 cost is $510.00, which is $10.00 over your expected budget.

U How much is the total value of all products in the High-Value tier?

The total value for the High-Value tier is $12,450.00 across 15 products.

Frequently Asked Questions

01 **How do I use this MCP with Claude?**

You connect to the MCP through the Vinkius platform. Once connected, your Claude client can immediately use the tools to calculate costs or run audits.

02 **Can this MCP find budget overruns?**

Yes. The audit tool compares a calculated cost against a reference value you provide to identify if you are over or under budget.

03 **Does this MCP handle component-level data?**

Yes. It includes a tool specifically to retrieve the base cost of individual components.

04 **Can I group costs by product category?**

Yes. You can use the aggregation tool to sum the total costs for all products in a specific value tier.

05 **Do I need to host the MCP myself?**

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

06 **How do I calculate the total cost of a product?**

You can use the `calculate_product_total` tool by providing the product ID and a map of the component quantities used.

07 **Can I audit my product costs against a budget?**

Yes, the `audit_cost_discrepancy` tool compares the calculated cost against your expected budget to identify differences.

08 **How can I see the total value of a specific cost tier?**

Use the `aggregate_category_costs` tool to get the total value and product count for tiers like Low-Value, Mid-Value, or High-Value.

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 `"product-cost-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

Product Cost 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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Server ID	`01a0cfa8-d14b-71bb-b53b-155071f2ecc0`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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