

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

Garment Size Averaging MCP

Convert clothing labels into precise manufacturing numbers.

Garment Size Averaging MCP bridges the gap between vague clothing labels and hard production data. It lets your AI client translate labels like Small or Large into numeric scales, allowing for statistical analysis of size distributions and more accurate inventory planning.

A+ Quality Score 100/100

garment

sizing

statistics

inventory

manufacturing



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.

Garment Size Averaging MCP

4 tools available

Cloud-hosted on Vinkius

You can't run a production line on labels like 'Medium' or 'Large' alone. To plan inventory or forecast demand, you need numbers. This MCP gives your AI agent the ability to treat garment sizing as quantitative data. Instead of guessing, your agent can pull the specific numeric scale used for a collection and run statistical math on it. You can check if a size label is valid for a specific region or look at the frequency of certain sizes across your entire stock. It turns a list of text labels into a dataset you can actually use for manufacturing decisions.

Core Capabilities

01 — Label Translation

Your agent uses mapping to turn text labels into numbers.

02 — Regional Validation

The AI checks if a size label is appropriate for a specific market.

03 — Frequency Counting

Your agent calculates how many of each size are in a batch.

04 — Mean Calculation

The AI finds the average numeric size of a garment collection.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/garment-size-averaging — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius hosted MCP.
- 02 Provide a list of garment size labels to your agent.
- 03 The agent uses the mapping tool to convert labels to numbers.
- 04 The agent runs calculations like averages or distributions.
- 05 You receive the numeric results for your planning.

Connect your client to Vinkius and start running size math immediately.

Built For

This is built for professionals managing apparel supply chains and inventory.

Inventory Managers

They hand off size lists to the AI to calculate stock levels.

Production Planners

They use the AI to turn size labels into numeric manufacturing targets.

Supply Chain Analysts

They use the AI to analyze size distributions across different regions.

What Changes When You Connect

- 01 Turns text labels into math-ready numbers.
- 02 Validates regional sizing requirements automatically.
- 03 Provides exact frequency counts for size batches.

04 Calculates mean sizes for better production forecasting.

Real-World Applications

Inventory Audits

Your agent counts the distribution of sizes in a warehouse shipment.

Production Planning

The AI calculates the average size needed for a new manufacturing run.

Market Expansion

You check if your current size labels are valid for a new target region.

Demand Forecasting

Your agent uses size distributions to predict future stock needs.

Patterns to Avoid

Manual size label counting

❌ AVOID

You try to manually tally up every Small, Medium, and Large in a massive spreadsheet to find your stock levels.

✓ INSTEAD

Let your agent handle the math by using ``get_size_distribution`` to get exact counts for any collection instantly.

Ignoring regional sizing standards

❌ AVOID

You assume a size label used in one market will work perfectly for a customer base in a different region.

✓ INSTEAD

Run your labels through ``validate_size_label`` to ensure they meet specific regional requirements before you ship.

Guessing production averages

❌ AVOID

You estimate the average size needed for a new run based on gut feeling or old, unquantified labels.

✓ INSTEAD

Use ``calculate_average_size`` to get a precise mean numeric value for your garment sets.

The Right Fit

Connect this MCP if you manage apparel supply chains and need to turn text labels into actionable math. If you only deal with single, non-standardized custom pieces, you don't need this. The deciding factor is whether your sizing data needs to be treated as a quantitative dataset for forecasting or inventory audits.

4 Tools for Quantitative Garment Sizing Analysis

These tools convert qualitative size labels into numeric datasets for statistical analysis and regional validation.

#	TOOL	DESCRIPTION
01	get_size_distribution	Counts how many of each size exists in a specific collection.
02	get_size_mapping	Retrieves the numeric scale that represents qualitative labels like Small or Large.
03	validate_size_label	Checks if a specific size label is recognized within a chosen region.
04	calculate_average_size	Computes the mean numeric value for a set of garments.

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 average size for these garments: ['Small', 'Medium', 'Large']?



The average numeric size for the provided garments is 2.0.

U Show me the distribution of sizes in this list: ['Small', 'Small', 'Medium']



The size distribution is: Small: 2, Medium: 1.

U Is 'Extra Large' a valid size in the US region?



Yes, 'Extra Large' is a valid size label for the US region.

Frequently Asked Questions

01 How does this MCP handle 'Small' or 'Large' labels?

It uses a mapping tool to convert those text labels into a numeric scale that your AI can perform math on.

02 Can I use this with Claude or Cursor?

Yes, this MCP works with any MCP-compatible client including Claude, Cursor, and Windsurf.

03 Does it support different sizing regions?

Yes, it includes a tool to validate if a size label is correct for a specific region.

04 What kind of math can my agent do with this?

Your agent can calculate the mean size of a collection or the frequency distribution of sizes.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP so it is ready to use immediately after connection.

06 How do I calculate the average size of a batch of clothes?

You can use the ``calculate_average_size`` tool by providing an array of size labels.

07 Can I use different regional standards?

Yes, most tools allow you to specify a region like 'US' or 'EU' to ensure the correct numeric mapping is applied.

08 How can I see the frequency of each size in my inventory?

Use the ``get_size_distribution`` tool to receive a count of every size label provided in your list.

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>"garment-size-averaging": { "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

Garment Size Averaging 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	<code>https://edge.vinkius.com/{token}/mcp</code>

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