MCP SERVER | NO CODE | CLOUD HOSTED

Flexport Logistics MCP

Manage orders, inventory, and returns instantly.

Flexport Logistics MCP connects your AI agent directly to global e-commerce fulfillment networks. Manage everything from placing new orders and checking real-time stock levels to tracking inbound shipments and handling returns, all through natural conversation. It gives you full visibility into the entire supply chain.

A+ Quality Score 100/100

fulfillment-network | order-management | warehousing | returns-processing | inventory-tracking | supply-chain-visibility

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vinkius.com/mcp/flexport-logistics

SCAN TO VIEW

The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

Flexport Logistics MCP

12 tools available
Cloud-hosted on Vinkius

Running an e-commerce business means juggling dozens of moving pieces: inventory counts, customer return requests, fulfillment order creation, and shipment labels. This MCP lets your agent handle that complexity using Flexport Logistics' global network data. You can ask about current stock levels across multiple warehouses or track the status of a specific inbound delivery without logging into any portal. When you connect this through Vinkius Marketplace to any AI client, it turns complex logistics tasks into simple conversations. Your agent handles listing product details, checking inventory availability, creating fulfillment orders for customers, and gathering necessary shipment labels. It’s about getting instant, accurate answers on everything from warehouse visibility to return status.

Core Capabilities

01 — Generate Fulfillment Orders

Creates and tracks new shipping requests for your end customers across all sales channels.

02 — Check Live Stock Levels

Retrieves current product counts from the entire Flexport warehouse network to prevent stockouts.

03 — Monitor Incoming Shipments

Lists and tracks details for inventory shipments en route to your warehouses.

04 — Retrieve Product Information

Accesses detailed metadata and libraries for specific products (SKUs).

05 — Manage Customer Returns

Gathers information about customer return requests and tracks the status of returned items.

06 — List Shipment Labels

Retrieves purchased parcel shipping labels needed for your e-commerce shipments.

07 — View Warehouse Locations

Gets a list of all active warehouses operating within the Flexport network.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/flexport-logistics** — connect your AI agent in three steps.

01 Subscribe to this MCP via Vinkius Marketplace and provide your required Flexport Logistics API Key.

02 Your agent uses the key to connect, giving it immediate access to global fulfillment data.

03 You ask a question or give a command—like 'What is the stock for SKU X?'—and your agent executes the necessary logistics tool call.

The bottom line is that you talk naturally to your AI client and get actionable, real-time logistics data back.

Built For

This MCP is built for anyone dealing with physical goods: e-commerce store owners, warehouse operations staff, or customer service managers. If manual tracking of orders, inventory counts, and returns slows down your team, this is for you.

E-commerce Merchant

Uses the MCP to quickly check if a specific SKU is in stock or track an entire customer's fulfillment order history.

Warehouse Operations Manager

Gets a real-time overview of inbound shipments and inventory arrivals, listing them without accessing multiple dashboard tabs.

Customer Service Representative

Automates the retrieval of tracking numbers or return statuses to answer customer questions immediately and accurately.

What Changes When You Connect

01 Stop manually cross-referencing multiple systems. Your agent can check live stock levels (using `list_inventory`) across the entire warehouse network in one prompt.

02 Accelerate customer support. Instead of searching through databases for tracking numbers or return status, your agent fetches all that data instantly using tools like `get_return` and `get_logistics_order`.

03 Streamline fulfillment setup. You can automate order creation (`create_logistics_order`) and simultaneously pull the required shipping labels (`list_labels`) in a single conversational flow.

04 Gain full supply chain visibility. Get an immediate overview of what's coming in (using `list_inbounds`) or where it needs to go by checking the entire warehouse map (`get_warehouse_network`).

05 Cut down on product research time. Quickly fetch detailed metadata for any item using `get_product` so your team never has to guess about an SKU's specifications again.

Real-World Applications

Investigating a Missing Product Shipment

A warehouse manager asks their agent, 'Where is our latest shipment of widgets?' The agent executes `list_inbounds` and identifies the inbound manifest ID ('INB-123'), showing its current status and estimated arrival date at the local facility.

Handling a Customer's Urgent Order Query

A customer service agent needs to know the status of an order. They ask their agent to check the fulfillment details, which triggers `get_logistics_order` and immediately provides the current tracking number and expected delivery time.

Preparing for a New Sales Campaign

An e-commerce merchant needs to know if they can promise 50 units of an item. They ask the agent, 'Check stock for SKU XYZ,' which runs `list_inventory` and confirms available quantities across all regional centers.

Processing a Bulk Return Batch

A returns specialist needs to process five returned items. Using their agent, they run `list_returns`, generating a list that shows the status of each item —whether it's inspected, pending credit, or rejected.

Patterns to Avoid

Manually checking every system

✗ AVOID

A user has to switch between the inventory portal, the order management dashboard, and the shipping label generator just to answer one customer question about a delayed item.

✓ INSTEAD

Use your agent to query everything at once. Ask it to check the fulfillment details using `get_logistics_order` and then list associated labels using `list_labels`. This keeps you in one conversation.

Confusing inbound with current stock

✗ AVOID

A person assumes that because a shipment is 'In Transit,' the inventory count has already increased, leading to promising unavailable products.

✓ INSTEAD

Always use `list_inbounds` first to track expected arrivals. Then, run `list_inventory` later to confirm when those items have actually been processed and added to available stock.

Ignoring the product library

✗ AVOID

A team member doesn't know if a specific SKU is part of the current fulfillment network or what its basic dimensions are, causing delays.

✓ INSTEAD

Run `list_products` to see the full catalog. If you need deep specs on one item, use `get_product` for accurate metadata.

The Right Fit

Use this MCP if your job involves physical goods that move through complex supply chains: e-commerce, warehousing, or logistics management. You absolutely need it when multiple data sources (inventory levels, order status, return history) must be checked and compiled into one simple answer for a user or customer. Don't use it just because you want to track shipments; if all you need is a tracking number, most basic shipping platforms suffice. However, if your process requires knowing *why* the shipment is delayed—for example, checking if inventory levels are too low, which would require `list_inventory` and then triggering a new order with `create_logistics_order`—then this MCP is essential. It connects the whole loop: problem identification to actionable resolution.

Tracking fulfillment status shouldn't feel like detective work.

Today, finding out where a shipment is requires clicking through five different screens. You start in the order dashboard, find the tracking ID; then you switch to the carrier site for an update; if that fails, you jump back to the warehouse management system just to check the inbound manifest. It's a cycle of tab switching and manual data comparison.

With this MCP, your agent handles all those steps automatically. You simply tell it what you need—like 'Give me the status for order 123.' The agent runs `get_logistics_order`, checks associated inbound details via `get_inbound`, and compiles one clean response instantly.

Flexport Logistics MCP: Instant Visibility into Every SKU

Before, checking stock required logging into the inventory portal, searching by SKU, and manually verifying the available count. You often missed the total network view and only saw the local warehouse count.

Now, ask your agent to run `list_inventory`. It gives you a single, unified number for that item across every fulfillment center—the real-time truth, without ever leaving your chat interface.

Flexport Logistics: 12 Tools for E-commerce Flow

These tools give your agent the power to interact with every part of the e-commerce supply chain—from initial order placement to final delivery tracking.

#	TOOL	DESCRIPTION
01	`create_logistics_order`	This tool creates a new fulfillment order for an end customer.
02	`get_inbound`	Retrieves detailed information about specific inbound inventory shipments.
03	`get_logistics_order`	Fetches the full details for a given fulfillment order number.
04	`get_product`	Gets detailed metadata and information about a specific product SKU.
05	`get_return`	Retrieves the current status and details for a customer return request.
06	`get_warehouse_network`	Lists all operational warehouses in the Flexport fulfillment network.
07	`list_inbounds`	Shows a list of all expected and currently monitored inbound shipments.
08	`list_inventory`	Checks and reports current stock levels for specified SKUs across the network.
09	`list_labels`	Generates a list of purchased shipping labels ready for use with e-commerce shipments.
10	`list_logistics_orders`	Provides a summary list of multiple fulfillment orders that have been created or processed.
11	`list_products`	Returns an overview of the entire product catalog managed by Flexport.
12	`list_returns`	Lists multiple customer return requests, summarizing their status and history.

See It in Action

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

U Check the current inventory level for SKU 'SKU-999'.

Checking inventory... For SKU 'SKU-999', you have 150 units available across the network, with the largest concentration in the California fulfillment center.

U List all fulfillment orders that were shipped today.

Retrieving orders... I found 12 fulfillment orders shipped today, including orders for 'Customer A' and 'Customer B'. Would you like the tracking numbers for these shipments?

U Show me the status of my inbound shipment 'INB-123'.

Fetching inbound details... Shipment 'INB-123' is currently 'In Transit' and is expected to arrive at the warehouse by Friday. I'll notify you once it's been received and processed.

Frequently Asked Questions

01 **How do I use the Flexport Logistics MCP to check stock levels?**

You ask your agent to list inventory and provide the specific SKU. The tool `list_inventory` checks current stock counts across the entire network, telling you exactly what's available right now.

02 **Can I use Flexport Logistics MCP to create a new order?**

Yes, you can tell your agent to create an order using `create_logistics_order`. This handles the initial fulfillment setup for your customer across all necessary channels.

03 **Does this MCP help with returns processing? (Flexport Logistics)**

It does. You can use `list_returns` to see a summary of multiple return requests and then use `get_return` for the detailed status of one specific item.

04 **Which tool do I use to find out what products Flexport carries?**

Run `list_products`. This tool gives you an overall catalog view, while if you need details on a single SKU, use the `get_product` tool.

05 **What is the difference between list_inbounds and list_inventory?**

Use `list_inbounds` when you want to know about shipments that are *on the way* to the warehouse. Use `list_inventory` when those items have arrived and are counted as available stock.

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 `"flexport-logistics": { "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

Flexport Logistics 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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