

MCP SERVER

NO CODE

CLOUD HOSTED

Flexport MCP

Manage global cargo, POs, and documentation instantly.

Flexport MCP connects your AI agent directly to global trade and supply chain systems. Manage freight movements, create purchase orders, and retrieve essential logistics documents like Bills of Lading through simple conversation. Get full visibility over ocean and air shipments without logging into multiple carrier portals.

A+ Quality Score 100/100

freight-forwarding

global-trade

shipment-tracking

purchase-order-management

logistics-documentation

supply-chain-visibility



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.

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](https://vinkius.com) — connect your AI agent in under 60 seconds.

Flexport MCP

12 tools available

Cloud-hosted on Vinkius

Running a complex supply chain means juggling dozens of tabs: one for customs data, another for invoices, and three more just to track a shipment's location. This MCP lets your AI agent do all that work for you. Instead of clicking through forms or manually compiling reports, you simply ask your client to list shipments or pull billing details. You can automate the entire purchase order lifecycle, retrieving everything from commercial invoices to detailed packing lists in one conversation.

Whether you need a high-level overview of active cargo or specific customs documentation, this tool handles it all. Because Vinkius hosts and manages this MCP, your agent connects once to access global visibility across freight operations. It's about getting answers instantly—a simple command pulls together data that used to take an analyst hours to gather.

Core Capabilities

01 — View shipment status

List all current ocean and air shipments, retrieving detailed tracking information and transit statuses.

03 — Access logistics documents

List and fetch critical shipping paperwork, including Bills of Lading, commercial invoices, and packing lists.

02 — Manage purchase orders

Create new purchase orders or retrieve full details on existing ones for lifecycle management.

04 — Handle billing records

Retrieve specific freight or commercial invoices associated with accounts or individual shipments for financial reconciliation.

One Click on Vinkius — From Prompt to Execution

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

- 01 Subscribe to this MCP on the Vinkius Marketplace and provide your Flexport API Key.
- 02 Connect your preferred agent client (Claude, Cursor, etc.) to the installed MCP.
- 03 Use natural language commands like 'What's the status of shipment X?' to get real-time data.

The bottom line is that you talk to your agent, and it pulls the correct supply chain information from Flexport directly into your chat interface.

Built For

Anyone who spends time reconciling data across multiple platforms—logistics coordinators, trade finance specialists, or inventory managers. If you spend more than ten minutes a day switching between carrier websites and ERP systems, this MCP is for you.

Logistics Coordinator

Checking shipment statuses across ocean and air routes, making sure cargo ready dates align with purchase orders.

Supply Chain Analyst

Generating a real-time overview of all active freight shipments, pulling associated invoices for quarterly reporting.

Finance Operations Specialist

Automating the retrieval of specific billing data and commercial invoices to prepare documentation for audit or payment reconciliation.

What Changes When You Connect

- 01 Stop tab-hopping. Instead of checking five different websites for tracking updates, ask your agent to list shipments; it gathers the real-time status across all modes (ocean or air) in one response.

-
- 02** Faster financial closing. Don't hunt down billing records. You can use `list_invoices` and `list_shipment_invoices` to pull every relevant freight invoice for audit purposes instantly.
-
- 03** PO accuracy on demand. If a shipment changes, you don't have to manually update the paperwork. Your agent lets you `get_purchase_order` details or even `create_purchase_order` records with simple prompts.
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- 04** Document control simplified. Needing that Bill of Lading? Instead of navigating document portals, ask your agent to `list_documents` and then use `download_document` for a secure link.
-
- 05** Global oversight without the headache. You get a single view of your entire supply chain from one chat window, eliminating the need to switch between carrier-specific dashboards.
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Real-World Applications

Need to confirm all paperwork for customs clearance?

An analyst needs to prepare an export filing. They prompt their agent: 'List commercial invoices and retrieve the packing list for shipment XYZ.' The agent uses `list_commercial_invoices` and `get_document`, compiling exactly what's needed into one message.

Time to reconcile Q3 freight spending.

A finance specialist needs a full picture of expenses. They prompt: 'List all invoices for this quarter.' The agent uses `list_invoices`, giving them access to every freight billing record so they can process payments immediately.

Shipment delayed and I need to check PO status.

A coordinator notices a delay. They ask the agent to 'Get shipment details for ABC-123 and also show me the associated purchase order.' The agent uses `get_shipment` and `get_purchase_order`, giving them both the current location and the original contract terms.

Starting a new shipment requires documentation.

A trade manager starts a project and needs the initial paperwork. They ask the agent to 'Create a purchase order for raw materials' using `create_purchase_order`, which initiates the necessary paper trail.

Patterns to Avoid

Treating it like a database query

X AVOID

Writing: 'SELECT * FROM shipments WHERE status = 'in transit' AND date > 2024-01-01'. The agent can't handle rigid SQL syntax.

✓ INSTEAD

Just talk to your agent. Ask directly, 'Show me all my freight shipments that are currently in transit.' Use `list_shipments` and let the AI structure the query for you.

Asking for everything at once

X AVOID

Prompting: 'Give me status updates, invoices, POs, documents, and customs data for everything I have ever shipped.' Too broad; the agent won't know where to start.

✓ INSTEAD

Narrow your focus. Start with a list command, like 'List my 5 most recent freight shipments,' then drill down into specific needs using `get_shipment` or `list_documents`.

Assuming document content

X AVOID

Asking: 'What does the Bill of Lading say about the goods?' The tool only retrieves metadata, not the human-readable text from the file.

✓ INSTEAD

First, use `list_documents` to find the correct Bills of Lading. Then, use `download_document` to get a link and process the data externally.

The Right Fit

Use this MCP if your job involves managing physical goods flow across international borders. If you need visibility into purchasing (POs), tracking cargo status (shipments), or retrieving specific financial paperwork (invoices, BoLs), this is perfect. Don't use it if you are only dealing with internal HR records or purely digital marketing assets; those require different tools. You don't need a general document storage tool when you have the specialized functions like `list_commercial_invoices` and `get_purchase_order`. Use it for logistics, period.

The Manual Grind of Global Logistics Tracking

Today, managing a shipment means juggling three separate windows: one with the carrier's tracking number, another with your internal ERP system to confirm the purchase order, and a third portal just for invoices. You copy numbers from one site, paste them into another, and then manually cross-reference dates until you figure out if that container actually left port or if it's still sitting in customs.

With this MCP, all those tabs disappear. Your agent becomes the central hub. Ask it about a shipment, and it pulls the live tracking data, checks the PO status, and flags any associated billing issues—all before you finish your sentence.

Getting Full Visibility with Flexport

You no longer need to manually initiate a search for documentation. Instead of logging into document repositories just to find the Bills of Lading or commercial invoices, you simply tell your agent to list and fetch them using `list_documents`.

What changes is that time spent searching becomes time spent acting. You get accurate data immediately, allowing you to move from monitoring a problem to solving it.

Flexport: 12 Tools for Logistics Management

These tools allow you to programmatically list, create, get, and download every type of document and record related to global freight shipments and purchase orders.

#	TOOL	DESCRIPTION
01	<code>create_purchase_order</code>	Generates a new purchase order record in the system.
02	<code>download_document</code>	Gets a secure, temporary link to download a specific logistics document file.
03	<code>get_document</code>	Retrieves metadata about any required logistics document type.
04	<code>get_invoice</code>	Fetches detailed information regarding a specific invoice number.
05	<code>get_purchase_order</code>	Retrieves all available details for an existing purchase order.
06	<code>get_shipment</code>	Gets comprehensive data and current status for a single shipment ID.
07	<code>list_commercial_invoices</code>	Lists all commercial invoices associated with your account or shipments.
08	<code>list_documents</code>	Provides a list of various types of logistics documents available for retrieval.
09	<code>list_invoices</code>	Lists all freight-related invoices for financial review.
10	<code>list_purchase_orders</code>	Generates a list of purchase orders across different statuses (pending, active, closed).
11	<code>list_shipment_invoices</code>	Lists all invoices specifically tied to one or more freight shipments.
12	<code>list_shipments</code>	Generates a list of all active and historical freight shipments.

See It in Action

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

U List my 5 most recent freight shipments and their status.



Fetching shipments... I found 5 recent shipments, including 'SHIP-123' (In Transit - Ocean) and 'SHIP-456' (Arrival - Air). Would you like the tracking details or associated documents for any of these?

U Show me all purchase orders pending for this quarter.



Retrieving purchase orders... You have 8 active POs, with 3 marked as 'Pending Vendor Confirmation'. Would you like me to drill down into the line items for these pending orders?

U Get the download link for the Bill of Lading for shipment 'SHIP-789'.



Generating document link... I've retrieved a secure temporary link for the Bill of Lading associated with SHIP-789. You can download the file here:
https://api.flexport.com/documents/doc_abc/download.

Frequently Asked Questions

01 How does the Flexport MCP handle different types of shipments?

It handles both ocean and air cargo. You can use `list_shipments` to see all active freight movements, regardless of how they are traveling.

02 Can I use the Flexport MCP to create a purchase order from scratch?

Yes, you can use the `create_purchase_order` tool. This allows your agent to generate new PO records directly in the system for tracking and approval.

03 What kind of invoices can I get using list_invoices?

list_invoices handles freight-related billing. You can then use list_shipment_invoices to narrow down those payments specifically tied to a cargo shipment.

04 Do I need special coding skills for the Flexport MCP?

No, you don't. The entire point is natural conversation. You just tell your agent what you want—like 'Get all documents for PO X'—and it handles the underlying API calls.

05 If a shipment changes status, how do I know?







You use get_shipment to retrieve the most current metadata. This gives you real-time tracking data and transit statuses without having to check external carrier sites.

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>"flexport": { "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

Flexport 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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