

MCP SERVER

NO CODE

CLOUD HOSTED

ChannelAdvisor (Rithum) MCP for AI Agents

Managing Multi-channel Commerce Inventory and Order Fulfillment

ChannelAdvisor (Rithum) MCP connects your AI agent directly to multi-channel commerce data, giving you full oversight of products, inventory, and orders across Amazon, Walmart, eBay, and more. You can list product details, track live order fulfillments, update stock levels, and pull distribution center information using natural conversation.

F Quality Score 3.6/100

multi-channel-selling

product-catalog

fulfillment

marketplace-integration

inventory-sync

order-tracking



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.

ChannelAdvisor (Rithum) MCP

8 tools available

Cloud-hosted on Vinkius

Managing e-commerce across multiple marketplaces is a nightmare if you're stuck in dashboards. This MCP lets your agent take over that complexity. Instead of jumping through separate portals for Amazon, Walmart, or eBay, you talk to your AI client, and it handles the data retrieval and action execution. You can ask about stock levels across different locations or pull details on an order without ever leaving your chat window. When you get access to this MCP via Vinkius, all those critical commerce operations—from checking current product labels to listing available distribution centers—become conversational tasks.

It means you don't just view data; you manage it. Need to update inventory? Just ask. Want a complete list of customer orders for the week? Done. This MCP centralizes your entire global catalog, letting you perform critical operational tasks in one place.

Core Capabilities

01 — Retrieve Product and Catalog Data

Get detailed information about specific products or view a full list of items across the connected marketplace catalog.

03 — Synchronize Inventory Levels

Check current stock counts across various locations and update inventory levels for products directly through conversation.

05 — Manage Operational Labels

Access and manage configured product labels, which helps in organizing and classifying inventory for easier operations.

02 — Track and Manage Customer Orders

List all customer orders, retrieve details for specific shipments, and monitor order fulfillments in real time.

04 — Monitor Distribution Centers

List all available distribution centers and retrieve core profile metadata about your account's operational structure.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/channeladvisor-rithum — connect your AI agent in three steps.

- 01 Subscribe to this MCP on Vinkius and provide your ChannelAdvisor Access Token and Profile ID.
- 02 Connect the MCP to any compatible AI client, like Cursor or Claude.
- 03 Use natural language prompts in your chat interface to ask questions or request actions related to orders, inventory, or product data.

The bottom line is that you get a single point of contact for all your multi-channel commerce operations.

Built For

This MCP is built for high-volume e-commerce professionals who spend too much time switching between dashboards. If you're an Operations Manager tired of manual inventory checks, or a Marketplace Analyst needing quick order data across Amazon and Walmart, this tool cuts down the clicking.

Operations Manager

Uses the MCP to update stock levels and audit fulfillments for multiple channels without logging into complex vendor dashboards.

E-commerce Director

Monitors overall sales health and inventory status across global marketplaces using simple natural language queries.

Logistics Specialist

Verifies real-time tracking information and confirms distribution center availability for complex, multi-channel orders.

What Changes When You Connect

- 01 You can immediately update stock levels using the `update_ca_inventory` tool, eliminating the need to navigate dedicated inventory management portals.

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- 02** Need quick visibility on what's moving? The MCP lets you use `list_ca_orders` to pull a list of recent customer orders without opening any marketplace dashboard.
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- 03** Track shipments end-to-end. Use `list_ca_fulfillments` to gather all tracking numbers and monitor delivery progress in real time for every order.
-
- 04** Never lose track of what's where. The MCP lets you use `list_distribution_centers` to confirm which locations have stock available before promising a delivery date.
-
- 05** Understand your entire product line quickly. You can call `list_ca_products` or `list_ca_labels` to get a comprehensive view of everything in your global catalog.
-

Real-World Applications

Checking total stock for an SKU across multiple locations

A logistics specialist needs to know if they can fulfill a large order. They ask their agent, and it checks inventory availability by listing available distribution centers and synthesizing the current stock counts for that specific item.

Getting product details without logging in

A marketplace analyst needs specs on an old item. Instead of manually searching the catalog, they ask their agent to get detailed information for a specific product using `get_ca_product_details`` and review it instantly.

Auditing recent sales performance across channels

An e-commerce director wants to review last week's sales. They ask their agent to list customer orders, which compiles data from all connected marketplaces into a single report for immediate analysis.

Updating stock after receiving goods

An operations manager receives a large shipment. Instead of manually editing spreadsheets, they use the agent to update inventory levels for multiple products at once using `update_ca_inventory``.

Patterns to Avoid

Manual Data Aggregation

✗ AVOID

Opening Amazon Seller Central, then logging into Walmart Merchant Center, and manually cross-referencing stock counts to figure out total availability.

✓ INSTEAD

Let your agent use the MCP's tools. Start by listing available distribution centers, then combine that data with ``update_ca_inventory`` calls to get a single source of truth for all SKUs.

Assuming API Coverage

✗ AVOID

Writing custom scripts that only handle order status but forget to account for product labels or fulfillment tracking numbers.

✓ INSTEAD

Use the MCP's built-in tools. Don't just list orders (``list_ca_orders``); always follow up by calling ``list_ca_fulfillments`` to ensure you have the actual tracking details.

Overlooking Catalog Structure

✗ AVOID

Only querying order status and missing out on crucial metadata, like what product labels were assigned or which distribution center was used.

✓ INSTEAD

Always check the catalog first. Use ``list_ca_products`` to see everything available, then use ``get_ca_product_details`` for specific specs before processing an order.

The Right Fit

You should connect this MCP if your core problem is synthesizing multi-channel commerce data—specifically inventory counts, order status, and product metadata—from multiple disparate systems. Use it when you need to perform actionable tasks like updating stock (`update_ca_inventory`) or listing all current fulfillments. Don't use this if your only goal is basic reporting that doesn't require action; for simple read-only data gathering, a standard API connector might suffice. However, if the manual process involves checking *where* an item is (distribution center availability) and *if* it can be sold (product details), then connecting this MCP is essential.

Managing Multi-channel Commerce Inventory with ChannelAdvisor (Rithum)

Today, checking your inventory means logging into a dozen portals. You open Amazon's dashboard to see stock A, then jump to Walmart's site for stock B, and finally check the internal system for distribution center C. You spend time copy-pasting numbers just to get one accurate count.

With this MCP, you simply ask your agent: 'What is the total available quantity for SKU X?' It compiles data from all relevant channels and sources in one response. You get an immediate, consolidated number without opening a single dashboard.

Automating Order Fulfillment Status with ChannelAdvisor (Rithum)

Manually tracking orders requires compiling lists from multiple sources: first listing customer orders, then checking fulfillments for each one, and finally cross-referencing the correct product labels. It's a multi-step, error-prone process.

This MCP automates that entire sequence. You ask your agent to monitor delivery progress; it handles calling `list_ca_fulfillments` and providing real-time status updates. The whole tedious chain of checking order details and tracking numbers is done in one go.

ChannelAdvisor (Rithum) 8 Tools for Multi-channel Commerce Sync

These tools allow your agent to list and retrieve specific data points like product details, order IDs, fulfillment status, and inventory counts.

#	TOOL	DESCRIPTION
01	<code>get_ca_order_details</code>	Retrieves detailed information when you specify a particular order ID.
02	<code>get_ca_product_details</code>	Gets comprehensive details for one specific product using its identifier.
03	<code>list_distribution_centers</code>	Pulls a list of all distribution centers currently available to your account.
04	<code>list_ca_fulfillments</code>	Lists order fulfillments and their corresponding tracking numbers for delivery monitoring.
05	<code>list_ca_labels</code>	Displays all the product labels that have been configured within your catalog settings.
06	<code>list_ca_orders</code>	Generates a list of recent customer orders across connected marketplaces.
07	<code>list_ca_products</code>	Provides a full catalog listing of all products managed by ChannelAdvisor.
08	<code>update_ca_inventory</code>	Adjusts the available stock count for a specific product SKU.

See It in Action

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

U List all my open orders from the last three days across Amazon, Walmart, and eBay.



Recent Orders Found:

- **Order #98765 (Walmart):** 3 items. Status: Shipped.
- **Order #54321 (Amazon):** 1 item. Status: Processing.
- **Order #12345 (eBay):** 2 items. Status: Delivered yesterday.

You can get full details on any of these if you need them.

U How much stock do I have for SKU 'WIDGET-001' right now?



Inventory Check for WIDGET-001:

- **Total Available:** 45 units.
- **Distribution Centers:**
 - * East DC: 30 units
 - * West DC: 15 units

The current stock levels are accurate as of this moment.

U Can you check my product catalog and tell me what labels we have set up?



Product Labels Configured:

You've got four primary labels:

- Seasonal Clearance (Used for markdown items)
- New Arrival (For Q2 stock)
- Overstock (Requires immediate discount action)
- High Priority (Must ship within 24 hours)

These labels help classify products across all channels.

Frequently Asked Questions

01 How does ChannelAdvisor (Rithum) MCP help me track inventory on multiple marketplaces?

It gives you one centralized view of stock. Instead of checking separate sites, your agent pulls the current count from all connected locations and tells you the total available quantity for any SKU.

02 Can this MCP manage my entire order fulfillment process?

Yes. It lists customer orders and then tracks them through their fulfillments, giving you real-time updates on shipping status and tracking numbers across all channels.

03 Is ChannelAdvisor (Rithum) MCP good for finding product details?

It's excellent. You can get comprehensive details on any item in your global catalog, including labels and specs, without having to log into the marketplace portal.

04 What if I need to change my stock counts after receiving a shipment?

The MCP allows you to update inventory levels directly through conversation. You just tell your agent what SKU and how many units, and it handles the adjustment across all connected systems.

05 Does ChannelAdvisor (Rithum) MCP help with distribution center checks?







Absolutely. It lets you list available distribution centers and check their current operational metadata so you always know where your stock is located for fulfillment.

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>"channeladvisor-rithum": { "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

ChannelAdvisor (Rithum) 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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