MCP SERVER | NO CODE | CLOUD HOSTED

Walmart Orders & Fulfillment MCP

Manage fulfillment from order creation to final return.

Walmart Orders & Fulfillment MCP lets you take control of your entire e-commerce logistics chain. It handles everything from tracking new sales orders and scheduling shipments to processing returns and managing refunds through Walmart's official system. Stop logging into multiple portals just to move a single item; this tool manages the whole physical goods lifecycle, giving your AI agent full visibility over every stage of the journey.

A+ Quality Score 100/100

fulfillment | order-tracking | returns-management | shipping-labels | refund-processing | logistics-automation

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vinkius.com/mcp/walmart-orders-fulfillment

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.

Walmart Orders & Fulfillment MCP

8 tools available
Cloud-hosted on Vinkius

This MCP lets you manage the messy reality of getting products from a warehouse to a customer's door—and handling it when they send them back. Instead of manually checking order status across multiple dashboards, your AI client can interact directly with Walmart's system. You can automatically find unacknowledged purchases or initiate fulfillment by dispatching tracking numbers immediately. Need to process a refund? It handles the financial routing and mapping required for payouts. Managing returns used to involve tedious ticket organization; now you can gather all return requests and even generate necessary shipping labels. Because this MCP is hosted within Vinkius, your AI agent connects once and gets access to this specific set of logistics tools alongside thousands of others in the catalog.

Core Capabilities

01 — Identify Pending Orders

Find all purchase orders that haven't been acknowledged or shipped yet.

02 — Process Shipping Labels

Generate required shipping labels directly based on fulfillment data.

03 — Handle Returns and Refunds

Retrieve return requests, initiate refunds, and manage associated payouts.

04 — Update Shipment Status

Submit tracking numbers to mark an order as shipped in the system.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/walmart-orders-fulfillment** — connect your AI agent in three steps.

01 First, your AI client connects using specific Client Identifiers pulled directly from the Walmart portal.

02 Next, you tell the agent exactly what needs to happen—for instance, 'Find all orders awaiting shipment' or 'Issue a refund for this item.'

03 The MCP executes the command by interacting with Walmart's secure order endpoints and returns the updated data (e.g., list of unshipped items, confirmation of refund).

The bottom line is your AI agent speaks to Walmart's system directly, letting you run complex logistics tasks without ever leaving your client application.

Built For

This MCP is built for anyone managing physical product flow: Logistics Coordinators, E-commerce Fulfillment Managers, and Supply Chain Operators. If spending hours manually tracking down unshipped orders or chasing refund status across different tabs is your normal Tuesday, you need this.

Logistics Coordinator

Uses the MCP to check for unacknowledged purchases and quickly dispatch tracking numbers when an order moves from 'ready' to 'shipped'.

E-commerce Fulfillment Manager

Directly manages returns, fetching return requests and executing refunds so payment cycles stay accurate.

Supply Chain Operations Analyst

Runs reports to pull lists of unshipped orders or download necessary shipping labels for bulk operations.

What Changes When You Connect

01 Stop wasting time manually tracking down orders. Use wm_get_unshipped_orders to instantly find all packages waiting for action, giving you a real-time view of your pipeline.

02 Handling returns is simplified. Run wm_get_return_requests to pull all necessary return data and then process refunds with wm_issue_refund, completing the cycle without manual accounting.

03 Shipping labels are generated instantly. You can download required documentation using wm_download_shipping_labels so you never have to leave your agent to print manifests.

04 Track every box's movement efficiently. After shipping, use wm_ship_order_lines and wm_track_shipment to update the buyer dashboard with accurate, confirmed tracking data.

05 Control order status completely. Need to adjust an order? You can either confirm it using wm_acknowledge_order or pull the plug entirely with wm_cancel_order.

06 Get a full picture of the inventory flow. The MCP gives your agent access to all critical logistical statuses, ensuring nothing gets missed in the process.

Real-World Applications

The daily fulfillment check

A logistics coordinator needs to know what's ready to ship right now. Instead of logging into the Walmart portal and filtering through dozens of tabs, they ask their agent to use wm_get_unshipped_orders. The agent reports a clean list of 45 items that need immediate attention, letting them prioritize the day's packing list.

The complicated return

A customer returned an expensive item and needs their money back immediately. The manager tells their agent to use wm_get_return_requests first. Once confirmed, the agent uses wm_issue_refund, confirming both the refund amount and the status change in one step.

The shipment update

A sale just went out. The coordinator needs to mark it as shipped instantly. They use wm_ship_order_lines, passing in the new carrier tracking number. This updates the buyer's dashboard and moves the order status correctly.

The clean-up operation

An old bulk purchase was canceled before shipping could begin. Instead of manually updating multiple records, the agent uses wm_cancel_order to securely remove the PO from active fulfillment arrays, keeping the system clean.

Patterns to Avoid

Mixing up data sources

✗ AVOID

Trying to use a general spreadsheet tool just because it looks like it can manage orders and returns. You'll end up with stale, unverified numbers.

✓ INSTEAD

Use the dedicated MCP tools. For example, always run wm_get_unshipped_orders first; this guarantees the data comes directly from Walmart's active system, not a local file.

Forgetting status updates

✗ AVOID

Shipping packages and then forgetting to update the order record. The buyer gets upset because nothing changes in their portal.

✓ INSTEAD

Always use wm_ship_order_lines immediately after generating a tracking number. This ensures the shipment details are synchronized with the buyer's view.

Incorrect refund procedure

✗ AVOID

Manually initiating a refund in an accounting system without confirming order status first, leading to mismatched records.

✓ INSTEAD

Before issuing funds, use wm_get_return_requests to validate the return process. Then execute the payout using wm_issue_refund.

The Right Fit

Use this MCP if your core business function revolves around physical product movement—you manage orders that need tracking numbers, labels, and financial refunds tied to specific logistics events. You need an agent capable of reading Walmart's fulfillment status (e.g., 'Is it ready? Is it returned?'). Don't use this if you only process digital goods or purely internal data reconciliation; for those tasks, a standard database connector will suffice. If your problem is merely coordinating between two separate systems (like linking an accounting tool to a CRM), use a general API integration MCP instead. This MCP handles the entire operational lifecycle from start to finish.

The constant status check on physical goods

Every day, logistics teams waste hours clicking through order management portals. They have to switch between tabs just to determine if an item is acknowledged, if a label needs printing, or if the refund process has actually started. It's a cycle of copy-pasting IDs and cross-referencing statuses across multiple screens.

With this MCP, your agent handles the entire check in one go. You ask for all unshipped items, and it pulls that data directly from Walmart's system, giving you an immediate, consolidated list. It's not about reading status; it's about acting on it.

wm_download_shipping_labels: Instant label generation

Previously, generating labels meant pulling the order details into a separate system, mapping the addresses, and then running the print job. This was slow, error-prone, and required multiple hands.

Now, your agent runs wm_download_shipping_labels and handles all that complexity internally. You get the necessary structural data to generate labels without ever leaving your conversational interface.

Walmart Orders & Fulfillment: 8 Tools

These eight tools give you direct command over every part of the e-commerce fulfillment lifecycle, from initial order acknowledgment to final refund.

#	TOOL	DESCRIPTION
01	`wm_acknowledge_order`	Confirms a purchased order physically moves into the processing stage within the system.
02	`wm_cancel_order`	Safely cancels a purchase order variable, isolating it from active fulfillment arrays.
03	`wm_download_shipping_labels`	Retrieves and generates necessary shipping labels based on the logistics data.
04	`wm_get_return_requests`	Fetches a list of return requests, allowing you to properly manage returning items.
05	`wm_get_unshipped_orders`	Extracts all purchase orders that are currently ready but waiting for fulfillment action.
06	`wm_issue_refund`	Routes a financial limit to safely process and execute a refund against an order.
07	`wm_ship_order_lines`	Updates the shipment status by submitting tracking details for multiple items at once.
08	`wm_track_shipment`	Retrieves detailed shipping information, simulating and capturing the active physical route of a package.

See It in Action

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

U Check active unfulfilled sales awaiting shipment.

Successfully queried orders. Found 12 unfulfilled packages.

U Find all unacknowledged orders from the last 24 hours.

Scanned successfully. Found 18 unacknowledged sales orders waiting for immediate acceptance to avoid penalties.

U Submit FedEx tracking number 1Z999999999 for order ID 81239912.

Order 81239912 has been successfully marked as Shipped. FedEx tracking label 1Z999999999 is now synchronized with the buyer's dashboard.

Frequently Asked Questions

01 **How do I check for orders waiting to ship using Walmart Orders & Fulfillment MCP?**

Use wm_get_unshipped_orders. This tool extracts a clean list of all purchase orders that are currently ready in the system but haven't been processed or picked up yet.

02 **Can I process refunds using Walmart Orders & Fulfillment MCP?**

Yes, you use wm_issue_refund. This tool handles routing the financial limit and securely executing the refund payout within the system records.

03 **What if an order is canceled? Do I need to run wm_cancel_order?**

Yep, you should use wm_cancel_order. Running this tool safely restricts the purchase order variables and removes them from active fulfillment arrays, preventing future processing errors.

04 **How do I know which items are eligible for returns in Walmart Orders & Fulfillment MCP?**

Run wm_get_return_requests. This fetches all necessary return logistics data, allowing you to correctly isolate and manage the returned arrays.

05 **Does this MCP help me track where a package is going?**

Absolutely. You can use wm_track_shipment or wm_track_shipment to actively capture the physical route, giving you detailed shipping history for any order ID.

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 `"walmart-orders-fulfillment": { "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

Walmart Orders & Fulfillment 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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