

MCP SERVER

NO CODE

CLOUD HOSTED

USPS Developer Portal MCP

Audit Addresses, Calculate Rates, Track Mail.

USPS Developer Portal connects your AI agent directly to the official United States Postal Service data. Instantly audit addresses, track packages across the country, verify ZIP codes, and calculate accurate shipping rates for domestic and international mail. It turns complex postal logistics into simple conversation.

A+ Quality Score 98.33/100

address-verification

package-tracking

zip-codes

postal-services

logistics



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.

USPS Developer Portal MCP

8 tools available

Cloud-hosted on Vinkius

Need to manage US mailing logistics? This MCP gives your agent access to the definitive source for USPS data. You can skip manually checking websites just to confirm an address or figure out a rate. Your agent handles everything: verifying if an address is valid, looking up what ZIP code belongs to a specific city, and tracking where a package actually is right now. It takes all that complex postal knowledge—rate tables, address formatting rules, real-time delivery commitments—and makes it conversational. If you're managing e-commerce deliveries or running regional audits, your agent works like an instant logistics consultant. Once connected through Vinkius, your AI client gets access to this entire catalog of services, making sure your data is always accurate and up to date.

Core Capabilities

01 — Validate US Addresses

It checks and standardizes any United States address against official USPS records.

02 — Calculate Shipping Costs

You get precise, real-time cost estimates for shipping packages both within the US and internationally.

03 — Monitor Package Status

It retrieves detailed tracking history for USPS shipments using only a tracking number.

04 — Map ZIP Codes to Locations

You can look up the city and state associated with any given five-digit or nine-digit ZIP code.

05 — Forecast Delivery Timelines

It queries current service commitments, telling you estimated delivery times for various mail classes.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/usps-developer-portal — connect your AI agent in three steps.

- 01 Subscribe to the USPS Developer Portal MCP and provide your specific USPS Web Tools User ID.
- 02 Connect this MCP to your preferred AI client (like Claude, Cursor, or Windsurf).
- 03 Ask your agent a question—for example, 'What is the best rate for shipping three pounds from Miami to NYC?'—and it returns the data.

The bottom line is you use natural language prompts instead of navigating multiple postal websites and filling out forms.

Built For

This MCP is for anyone whose job involves physical goods moving from Point A to Point B. If your day requires checking address validity, calculating shipping costs, or tracking packages, this tool saves you hours of manual research.

E-commerce Fulfillment Manager

Verifies customer addresses and calculates accurate domestic and international rates before confirming an order.

Logistics Operations Lead

Tracks multiple shipments, checks for service delays, and retrieves official metadata straight into their workflow report.

Address Data Researcher

Performs rapid audits of large batches of US locations to ensure all ZIP codes are correctly matched with city/state pairs.

What Changes When You Connect

- 01 Stop guessing shipping costs. Use the `calculate_domestic_rate` and `calculate_international_rate` tools to get precise, real-time pricing for any package shipment.

-
- 02** Eliminate bad data entry. Run `verify_usps_address` on customer inputs so your records always use standardized, official USPS address formats.
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- 03** Gain instant visibility into packages. Instead of calling customer service, run `track_usps_package` or `track_usps_package_advanced` to get the full event history immediately.
-
- 04** Boost regional knowledge with ZIP codes. The `lookup_usps_zip_code` tool lets you map a location name back to its exact postal code for auditing purposes.
-
- 05** Automate planning with delivery estimates. Use `get_delivery_commitments` to accurately set expectations and plan e-commerce fulfillment timelines.
-

Real-World Applications

Pre-Sale Shipping Quote

A client needs a quote for a large shipment across state lines. They ask their agent, 'What's the cost to ship 10 lbs from Texas to California?' The agent immediately uses `calculate_domestic_rate` and returns the exact price, saving minutes of manual calculation.

Tracking Missing Inventory

A sales team member needs to know if a shipment is delayed. They tell their agent, 'Check the status of tracking number X.' The agent uses `track_usps_package` and provides the current status and delay details.

Data Cleaning for Manifests

An operations manager has a spreadsheet full of addresses that might be wrong. They instruct their agent to run an address audit using `verify_usps_address`, which standardizes every entry and flags any invalid records instantly.

Market Research for New Routes

A regional auditor needs to know what ZIP codes service a major metropolitan area. They ask their agent to use `lookup_usps_zip_code` for a specific city, generating a list of relevant postal markers.

Patterns to Avoid

Assuming all addresses are valid

X AVOID

A user assumes that because the address looks right, it will pass through USPS. They try to calculate rates based on unverified data.

✓ INSTEAD

First, always run ``verify_usps_address`` using your agent to ensure the customer's provided mailing details are 100% compliant with official USPS standards before calling any rate calculation tool.

Using only basic tracking

X AVOID

The user just wants a simple 'delivered/not delivered' status and stops there, missing critical history.

✓ INSTEAD

For full visibility into where the package was or why it might be held up, use ``track_usps_package_advanced`` to get granular event metadata.

Mixing ZIP lookups

X AVOID

The user tries to manually cross-reference a city name with a ZIP code in two separate tabs.

✓ INSTEAD

Use the agent to first run ``lookup_usps_zip_code`` on the address, and then use ``lookup_usps_city_state`` if you need to confirm what that specific ZIP code maps back to.

The Right Fit

Use this MCP when your core problem involves US postal logistics. If you need to calculate a shipping cost, verify an address format, or track a USPS shipment, this is the right tool. Don't use it if you are working with international carriers outside of standard USPS services (e.g., DHL), or if you are dealing with internal corporate data like employee records or CRM contacts. If your task only requires basic geographic mapping without postal specifics, using `lookup_usps_city_state` is better than generic mapping tools. But remember: this MCP's strength is its authoritative connection to USPS; it won't provide generalized shipping advice for non-US markets.

The headache of manual logistics data checking

Think about what happens today. You get a list of customer addresses and have to cross-reference them against multiple USPS web pages just to make sure they are formatted correctly, or you manually copy/paste tracking numbers into different portals to see where the package is. It's time-consuming, prone to human error, and slows down your entire fulfillment process.

With this MCP, your agent handles that mess for you. You simply ask it to audit a list of addresses, or track several shipments at once. Instead of navigating five different tabs, you get all the verified, standardized data instantly in natural conversation.

Get US Postal Data Authority with USPS Developer Portal

You no longer have to jump between separate tools for every piece of information. You can ask your agent to calculate the international rate, and then immediately check if the destination address is valid using `verify_usps_address`. It's a single query that gets multiple, related data points back.

The result is an immediate shift from manual research to automated intelligence. Your system now operates with the authority of official US postal records.

USPS Developer Portal: 8 Tools for Logistics

These eight tools let you perform every necessary postal function, from calculating specific shipping costs to verifying addresses against official USPS records.

#	TOOL	DESCRIPTION
01	<code>calculate_domestic_rate</code>	Figures out the cost for sending a package across state lines using USPS domestic service rates.
02	<code>calculate_international_rate</code>	Determines the shipping cost when sending a package outside of the United States.
03	<code>get_delivery_commitments</code>	Retrieves current service estimates, letting you know how quickly mail classes are expected to arrive.
04	<code>lookup_usps_city_state</code>	Finds the city and state names associated with a specific US ZIP code.
05	<code>lookup_usps_zip_code</code>	Identifies the precise, official five-digit or nine-digit ZIP code for any given mailing address.
06	<code>track_usps_package_advanced</code>	Gathers comprehensive and detailed tracking information for a USPS package shipment.
07	<code>track_usps_package</code>	Checks the current status of a package using only its primary tracking number.
08	<code>verify_usps_address</code>	Standardizes and validates an entire US address so it conforms to official USPS formatting rules.

See It in Action

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

U Verify address '1600 Pennsylvania Avenue NW, Washington, DC 20500' using USPS.



I've retrieved the verification metadata from USPS! The address is identified as valid and standardized. Would you like the full XML response or the ZIP+4 metadata for this location?

U Track my package with tracking number '9400100000000000000000'.



I've checked the status for that tracking number. It is currently identified as 'Delivered' at [Time]. I can assist you with the full event history metadata for this shipment if you'd like.

U Lookup ZIP code for 'Seattle, WA'.



I've retrieved the ZIP code metadata for Seattle! Notable codes include 98101 and 98104. I can provide the specific address-level ZIP details to assist in your regional logistics audit.

Frequently Asked Questions

01 Does USPS Developer Portal MCP handle international tracking?

It handles both domestic and international rates. While it focuses on USPS services, you can calculate costs for various global destinations using the ``calculate_international_rate`` tool.

02 How do I ensure an address is correct with `verify_usps_address``?

Simply ask your agent to run ``verify_usps_address`` on the specific address string. The MCP standardizes it and confirms its validity based on official USPS records.

03 Can I get a cost estimate without knowing the exact weight?

You can use the ``calculate_domestic_rate``, but you must provide accurate details like weight and package dimensions. The more specific you are, the better the rate estimate.

04 What is the best way to check if a ZIP code belongs to a state?

You should use ``lookup_usps_city_state``. This tool cross-references a given ZIP code and provides the corresponding city and state data.

05 What kind of tracking details does `track_usps_package_advanced` provide?







It provides advanced, granular information. You get detailed facility-level events and comprehensive history for a package, going beyond just 'In Transit'.

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>"usps-developer-portal": { "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

USPS Developer Portal 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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