MCP SERVER | NO CODE | CLOUD HOSTED

Jawg Maps MCP

Map complex routes, distances, and elevations instantly.

Jawg Maps MCP handles all professional geospatial data needs. Use it with your AI client to search specific addresses, calculate optimal routes for driving, biking, or walking, and compute complex distance matrices between any number of points. You can also determine the exact altitude profile along a path or map out areas reachable within a certain time limit.

A+ Quality Score 100/100

geocoding | routing | mapping | spatial-analysis | logistics | elevation-data

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/jawg-maps-location-routing

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.

Jawg Maps (Location & Routing) MCP

10 tools available
Cloud-hosted on Vinkius

Need to figure out where things are or how long it takes to get there? This MCP lets your AI client take control of professional mapping services and geospatial analytics. Instead of opening multiple tabs or running complex queries in dedicated software, you talk to your agent naturally—and it does the heavy lifting.

For instance, if you're planning a supply run across five different warehouses, you don't have to manually calculate every leg of the journey. You simply ask for the distance matrix. The MCP computes travel times and distances between all origins and destinations simultaneously. Need to know the best walking path through a city? It calculates optimal routes supporting multiple waypoints and profiles. Even if your plan requires altitude data, you can get elevation profiles for specific coordinates or along that calculated route path. Accessing this level of detailed geographic intelligence is now built directly into conversation via Vinkius.

Core Capabilities

01 — Find addresses and points of interest

The MCP searches for places and addresses by text, allowing you to pinpoint exact locations or resolve GPS coordinates back to a physical address.

02 — Calculate optimal travel paths

It determines the best driving, biking, or walking routes between multiple coordinates while supporting intermediate waypoints.

03 — Analyze distance and time networks

You can compute massive tables showing travel times and distances between any set of starting points and ending points.

04 — Map out reachable zones

The MCP draws polygons to visualize areas you can reach, either by driving within a certain time limit or covering a specific distance.

05 — Retrieve altitude data for paths

It pulls the elevation above sea level for precise coordinates or along an entire planned route path.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/jawg-maps-location-routing** — connect your AI agent in three steps.

01 First, subscribe to this MCP and enter your Jawg Access Token credentials.

02 Next, connect your AI client (like Claude or Cursor) through the Vinkius platform.

03 Finally, ask your agent for a location-aware task—for example, 'What is the total travel time from Point A to Point Z?'—and the MCP executes the calculation.

The bottom line is you get powerful mapping and logistics tools accessible via natural conversation, without needing to write boilerplate code or manage multiple APIs.

Built For

This MCP serves GIS developers who need deep geographic data in their applications, logistics planners managing complex delivery fleets, and urban researchers analyzing city accessibility. If your job involves moving people or things from Point A to Point B, this is for you.

Logistics Planner

Calculating optimal routes and distance matrices for entire delivery fleets or supply chain management across multiple stops.

GIS Developer

Integrating geocoding, routing, and advanced geospatial analytics into custom AI agent workflows and applications.

Urban Researcher

Analyzing city accessibility, population movement patterns, and elevation data across different geographic regions for reports.

What Changes When You Connect

01 You get accurate location data without manual lookups. Use search_map_places or reverse_geocode to immediately verify any physical address using simple text prompts.

02 Stop estimating travel times. calculate_distance_matrix computes the full travel time and distance network between dozens of stops instantly, saving hours in spreadsheet work.

03 Plan complex journeys with confidence. calculate_routing_line finds the single best path through multiple waypoints, supporting different modes like driving or biking.

04 Analyze logistics coverage easily. The calculate_reachability_isochrone tool maps out exactly where your drivers can get by based on time constraints.

05 Understand terrain changes before starting a route. Use get_path_elevation to see the altitude profile for coordinates, which is critical for mountaineering or civil engineering projects.

Real-World Applications

Optimizing last-mile delivery routes

A logistics manager needs to calculate the total driving time and distance from a central depot to 15 different drop-off points. Instead of entering coordinates one by one, they ask the agent to use calculate_distance_matrix, getting an instant matrix showing the travel metrics for every pair.

Analyzing city accessibility for new real estate

An urban researcher needs to know which neighborhoods are reachable within a 30-minute drive from a proposed commercial center. They prompt the agent to calculate_reachability_isochrone, getting a precise polygon map of viable areas.

Troubleshooting GPS coordinates

A developer receives raw GPS coordinates (48.8566, 2.3522) and needs to know the actual street address for client billing. They use reverse_geocode and instantly get '2 Place de l'Hôtel de Ville, 75004 Paris, France'.

Planning a multi-stage hiking trip

A field engineer needs to know the elevation changes along a proposed trail path. They prompt the agent using calculate_elevation_routing, which provides an entire altitude profile for accurate planning.

Patterns to Avoid

Using generic search when precision matters

✗ AVOID

Asking to 'find places near coordinates 45.0, 6.0' using general mapping tools might return irrelevant results or lack regional context.

✓ INSTEAD

Always refine your search first by using search_country_filter if you need data confined to a specific nation, ensuring compliance and accuracy before running any calculations.

Calculating routes without specifying waypoints

✗ AVOID

Just asking for 'a route from Paris to Lyon' ignores the fact that the optimal path might require stopping through other key cities like Dijon.

✓ INSTEAD

To ensure accuracy, specify all necessary stops by using calculate_routing_line and listing every waypoint in sequence.

Assuming distance equals travel time

✗ AVOID

Calculating a simple straight-line distance between two points fails to account for roads, traffic, or topography.

✓ INSTEAD

Always use calculate_distance_matrix for total journey metrics. It provides both the true distance and the necessary estimated travel time.

The Right Fit

Use this MCP if your problem involves complex movement, networking, or geospatial measurement. Specifically, if you need to know 'how far' (distance), 'how long' (time), or 'what is the elevation' along a path, this is essential. You should use it when planning logistics routes for multiple points using calculate_distance_matrix, or when defining boundaries based on time limits using calculate_reachability_isochrone.

Don't use this MCP if you only need basic mapping functionality, like simply looking up the nearest coffee shop without knowing how far it is. For simple point-to-point searches, a general search tool will suffice. If your goal is merely to get coordinates from an address and don't need validation or routing, simpler geocoding tools might work better.

Mapping out logistics plans used to involve spreadsheets and multiple logins.

Today, planning a large delivery run means copy-pasting coordinates into one spreadsheet, then jumping between different mapping services just to get the total distance matrix. You manually adjust for waypoints, and if you change one address, you start over. It's tedious, error-prone work that takes hours of administrative effort.

With this MCP, you simply describe the problem—for example, 'Plan a route covering these five sites.' The system handles the complex math behind calculating_distance_matrix instantly and returns clean, actionable metrics. You get back reliable, optimized plans in plain conversation.

The Jawg Maps MCP delivers precise routing intelligence.

You no longer need to calculate the elevation profile for every single segment of a multi-day trek or complex construction path. You just ask, and the get_path_elevation tool provides the full altitude data needed for accurate planning.

The difference is that you stop managing APIs and start solving problems. This MCP turns complex geographic math into simple conversational commands.

Jawg Maps (Location & Routing) with 10 Tools

These tools give you the ability to search addresses, map complex travel paths, compute distance networks, and analyze geographic data points instantly.

#	TOOL	DESCRIPTION
01	search_autocomplete	Predicts places or addresses as you type a search query, optionally focusing the results on a given GPS location.
02	calculate_elevation_routing	Generates a calculated route path that includes detailed elevation profiles for every point along the way.
03	get_path_elevation	Retrieves the specific altitude and elevation above sea level for coordinates you provide.
04	calculate_distance_isochrone	Figures out the total area (in a polygon) reachable from one spot within a set distance limit, regardless of travel time.
05	calculate_reachability_isochrone	Determines the size and shape of an area you can get to from a center point based on a specific maximum travel time.
06	calculate_distance_matrix	Computes the total travel times and straight-line distances between multiple specified starting and ending points simultaneously.
07	reverse_geocode	Takes raw GPS coordinates and converts them back into a complete, readable physical street address.
08	calculate_routing_line	Calculates the optimal travel path between multiple waypoints that you specify in order.
09	search_country_filter	Searches for locations and addresses while strictly limiting results to a specific country's borders.
10	search_map_places	Finds matching places and addresses across the map using basic text search and returns their coordinates.

See It in Action

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

U Find the physical address for coordinates 48.8566, 2.3522

Resolving coordinates... That location corresponds to '2 Place de l'Hôtel de Ville, 75004 Paris, France'. It's categorized as a City Hall. Would you like to see nearby points of interest?

U Calculate a driving route from Paris to Lyon via Dijon

Calculating route... The optimal path via A6 is approximately 465 km and will take about 4 hours and 20 minutes with standard traffic. I've included the waypoints for Dijon in the calculation. Would you like the turn-by-turn summary?

U Show me the elevation for these coordinates: 45.8326, 6.8651

Retrieving elevation data... Those coordinates (near Mont Blanc) have an altitude of approximately 4,807 meters above sea level. Would you like to check the elevation profile for a path around this area?

Frequently Asked Questions

01 **How does Jawg Maps calculate the optimal route using calculate_routing_line?**

calculate_routing_line determines the best path between multiple specified points. It handles the sequence and calculates the most efficient way to pass through all your given intermediate waypoints.

02 **Can I use Jawg Maps MCP for finding an address from coordinates?**

Yes, you can run reverse_geocode on any GPS coordinate pair. This tool takes raw numbers and converts them into a complete, readable physical street address.

03 **Does the MCP only calculate driving routes?**

No, it supports different transportation profiles. You can ask for optimal paths using biking or walking modes, not just vehicles.

04 **What is the difference between distance and reachability in Jawg Maps?**

Distance matrices calculate travel times and straight-line distances between points. Reachability calculates an area (isochrone) based on a maximum time or distance limit from one central point.

05 **How do I find places using search_map_places?**

You use the tool by providing text describing what you're looking for. It returns matching locations and their precise coordinates, letting you verify where exactly the place is.

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 `"jawg-maps-location-routing": { "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

Jawg Maps (Location & Routing) 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Jawg Maps (Location & Routing). All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Jawg Maps (Location & Routing) MCP
Server ID	`019d75bc-9e90-7250-a16e-4333e26ed300`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/mcp/jawg-maps-location-routing.