MCP SERVER | NO CODE | CLOUD HOSTED

Tencent Map LBS API MCP

Calculate routes or pinpoint any location in China.

Tencent Map LBS API brings China's leading location-based services directly into your AI agent. It lets you calculate precise routes, find points of interest, and convert addresses to coordinates for any task involving Chinese geography. This MCP gives your agent the ability to handle complex mapping tasks—like optimizing logistics or market research—without ever opening a map app or dealing with API keys.

A+ Quality Score 98.33/100

lbs | mapping | routing | poi-data | geocoding | location-services

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vinkius.com/mcp/tencent-map-lbs-api

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.

Tencent Map LBS API MCP

10 tools available
Cloud-hosted on Vinkius

Stop manually looking up address data or switching between multiple mapping tools. With this MCP, you give your AI client the power of Tencent Map, China's dominant location infrastructure. Your agent handles all geographic operations through natural conversation. Need to know where an address is? Ask it to convert that physical location into precise coordinates instantly. Planning a delivery route across Chinese cities? Just ask for driving, transit, or walking directions between points. It even searches for specific types of businesses, like restaurants or hotels, near any given spot. This unified access makes your agent act like a real-time geographic intelligence expert. If you're building an application that needs reliable mapping data in China, connecting this MCP via Vinkius gives you instant control over complex geocoding and routing without writing a single line of code.

Core Capabilities

01 — Calculate Coordinates from Addresses

The agent converts physical addresses into specific latitude and longitude coordinates.

02 — Plan Multi-Modal Routes

You get turn-by-turn directions for driving, public transit, walking, or cycling between two points.

03 — Discover Points of Interest

The agent searches for specific categories of places, like hotels or restaurants, within a defined area.

04 — Audit User Locations by IP

You can determine the regional location and audit user data using only an IP address.

05 — Identify Administrative Areas

The agent accesses a comprehensive list of all administrative districts in China for classification purposes.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/tencent-map-lbs-api** — connect your AI agent in three steps.

01 Subscribe to this MCP and provide your Tencent Map API Key and optional Secret Key.

02 Your AI client reads the location request (e.g., 'Find a coffee shop near X coordinates').

03 The agent executes the necessary tool call, retrieves precise map data, and reports the final result back in plain conversation.

The bottom line is you tell your agent what you need—a route, an address conversion, or a list of places—and it handles all the complex mapping calls in the background.

Built For

This connector is essential for logistics managers who can't rely on basic map services for Chinese routes. It's vital for developers building WeChat Miniapps or any product needing deep, accurate location data across China.

Logistics Coordinator

Optimizes multi-stop delivery schedules and audits addresses to confirm serviceability before dispatching crews.

Miniapp Developer

Integrates robust, reliable location services into WeChat apps, handling everything from route planning to POI searches via natural language prompts.

Market Researcher

Analyzes the density and distribution of specific businesses or administrative boundaries across major Chinese cities.

What Changes When You Connect

01 Turns complex map tasks into simple conversations. Instead of writing code to convert an address, you just ask your agent for the coordinates using the geocoding tool.

02 Saves time on routing by supporting all modes: driving (direction_driving), public transit (direction_transit), walking (direction_walking), and bicycling (direction_bicycling).

03 Improves market intelligence by allowing you to search for specific businesses, like coffee shops, using the poi_search tool without needing to know their exact address.

04 Gives regional confidence. You can audit user location or classify data sources using the ip_location tool based on IP addresses, which is critical for compliance.

05 Provides complete coverage of Chinese geography, from getting a simple list of administrative districts via get_district_list to accurately reversing coordinates with reverse_geocoding.

Real-World Applications

Optimizing Last-Mile Delivery

A logistics manager needs the fastest route for 15 packages across Shanghai. They ask their agent, 'What's the best way to get from point A to point B?' The agent uses direction_driving and then calculates a secondary walking path between two cluster points, delivering an optimized, multi-modal plan.

Verifying Miniapp User Input

A developer needs to ensure that a user entered a valid address for their WeChat app. They prompt the agent with 'Check this address: [Address]' and use geocoding, which instantly returns coordinates or flags the address as invalid.

Competitive Site Analysis

A market researcher wants to know where all the major coffee chains are in a new neighborhood. They ask their agent to perform a poi_search for 'coffee' within a 1km radius, getting an immediate list of competitors.

Geographic Data Validation

A compliance officer receives a user report with coordinates but no address context. They ask the agent to use reverse_geocoding on those points, instantly converting them into a readable street address for reporting.

Patterns to Avoid

Treating mapping as simple data lookup

✗ AVOID

Manually looking up coordinates from an unreliable Google Maps sheet and assuming they are accurate for Chinese addresses.

✓ INSTEAD

Always use the geocoding tool. It converts physical street names into precise, reliable latitude/longitude pairs guaranteed by Tencent Map.

Ignoring transportation modes

✗ AVOID

Planning a route solely based on driving time when the destination is deep in a city center with no parking.

✓ INSTEAD

Always check multiple directions. Use direction_transit or direction_walking to get the most realistic travel time.

Assuming all data sources are equal

✗ AVOID

Using generic web forms that don't account for China's specific administrative boundaries.

✓ INSTEAD

Check regional validity using the get_district_list tool. This guarantees your classification data matches official Chinese standards.

The Right Fit

Use this MCP if your work involves any location-based task within mainland China, especially for enterprise logistics or WeChat Miniapp development. If you need to know coordinates from an address, calculate a route across multiple modes (driving, transit, walking), or find local businesses by type, this is the right tool. Don't use it if your mapping needs are limited to basic city-to-city travel in Western Europe; simpler general map services might suffice. However, you must use specific tools like direction_bicycling for cycling routes because generic routing tools won't account for bike paths.

Mapping data is a mess of clicks and tabs.

Today, determining basic location information means opening multiple browser tabs. You copy an address into one map tool, then you have to manually search another site for POIs, and if the coordinates are wrong, you waste time calling up a data sheet just to get the correct district name. It's tedious, error-prone work that slows down decision-making.

With this MCP integrated through Vinkius, all of that complexity disappears. You tell your agent what you need—whether it’s finding nearby restaurants or calculating the best transit time—and it handles the API calls and data cross-referencing instantly. You get a single, conversational answer.

The Tencent Map LBS API MCP gives you authoritative location data.

Specific manual steps that vanish include manually checking if an address is valid, switching between driving and public transit directions to find the best option, or having to search multiple directories just to get a complete list of administrative regions. These tasks used to require dedicated GIS software access.

Now, your agent handles this intelligence directly in your workflow. It's not just providing data; it's solving geographic problems for you on demand.

Tencent Map LBS API: 10 Tools for Geospatial Data

These tools let your agent perform every kind of location query: from finding the fastest driving route to listing administrative districts in China.

#	TOOL	DESCRIPTION
01	`direction_bicycling`	Gets detailed step-by-step directions for cycling routes.
02	`direction_driving`	Calculates the fastest and most efficient driving route between points.
03	`direction_transit`	Plans optimal public transit directions, including subway and bus transfers.
04	`direction_walking`	Provides simple turn-by-turn walking instructions for pedestrians.
05	`geocoding`	Converts a physical street address into precise latitude and longitude coordinates.
06	`get_district_list`	Retrieves the full, official list of administrative districts used for regional classification.
07	`ip_location`	Determines a location and regional data based on an input IP address.
08	`poi_search`	Searches for specific types of points of interest, such as restaurants or hospitals, by keyword.
09	`poi_suggestion`	Suggests relevant local places when a user is searching generally in an area.
10	`reverse_geocoding`	Converts raw latitude and longitude coordinates back into a readable street address.

See It in Action

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

U Find the coordinates for 'Tencent Seafront Towers' in Shenzhen.

I've geocoded the address. The Tencent Seafront Towers in Shenzhen are located at latitude 22.5229, longitude 113.9351. Would you like me to plan a driving route there or search for nearby restaurants?

U Search for 'Coffee' near 22.5229, 113.9351 within 1000 meters.

I've found 8 coffee shops within 1000 meters of those coordinates, including 'Starbucks' and 'Luckin Coffee'. Would you like the full list with addresses and contact numbers?

U What is the best transit route from Shenzhen University to the Airport?

I've planned the transit route. The best option is taking Metro Line 11 directly, which takes about 35 minutes. Would you like a step-by-step breakdown of the transit directions?

Frequently Asked Questions

01 **How do I convert an address to coordinates using the Tencent Map LBS API MCP?**

You use the geocoding tool. Simply ask your agent to take a physical street name and return its latitude and longitude, and it handles the conversion immediately.

02 **Can I plan a route from my current location using direction_driving?**

Yes, you just need to provide both endpoints. The agent uses direction_driving to calculate the fastest driving path, accounting for real-time traffic conditions.

03 **What if I only know coordinates and want a street address? Do I use reverse_geocoding?**

Yes, that's exactly what reverse_geocoding does. Give it the latitude and longitude, and it pulls back the most accurate readable street address.

04 **Does poi_search only find businesses, or can it find other points of interest?**

It searches for various types of locations based on keywords you give it. It's useful for finding anything from a specific hospital to a general type of restaurant.

05 **Is the get_district_list tool necessary if I just need to know the city name?**

No, but it’s useful for deep data validation. It provides the full list of administrative districts, ensuring your classification uses official governmental boundaries.

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 `"tencent-map-lbs-api": { "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

Tencent Map LBS API 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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