

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

NYC Traffic & Street Conditions MCP

Get real-time street data directly in your AI client.

NYC Traffic & Street Conditions MCP provides direct access to Department of Transportation datasets without needing an API key. Your agent can pull specific motor-vehicle crash reports, track pothole repair progress, monitor pedestrian and bike volumes from city sensors, and map out the protected bike network.

A+ Quality Score 98.33/100

new-york

nyc

traffic

crashes

potholes

bicycles



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.

NYC Traffic & Street Conditions MCP

8 tools available

Cloud-hosted on Vinkius

You can pull live street-level reality from the NYC Department of Transportation without managing complex API credentials. This MCP connects your AI client to official city datasets, turning raw government records into actionable intelligence. If you need to investigate safety trends, you can look up specific collision details or identify the most frequent contributing factors in recent crashes. For infrastructure tracking, you can query pothole work orders to see when specific repairs were completed or check the volume of bike and pedestrian traffic through the city's sensor network. It's a direct line to the data used by urban planners and journalists to understand how New York City moves and where the streets are failing.

Core Capabilities

01 — Crash Investigation

Your agent can pull specific injury details and contributing factors for any recorded collision.

02 — Infrastructure Monitoring

The AI can track the status and completion dates of pothole repair work orders.

03 — Mobility Analysis

Your client can query sensor networks to get precise bike and pedestrian counts.

04 — Route Mapping

The agent can identify segments of the city's protected bike lane network.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/nyc-traffic-street-conditions — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Select the NYC Traffic & Street Conditions MCP from the catalog.
- 03 Ask your AI client to search for specific crashes, sensors, or work orders.
- 04 The AI executes the tool and presents the raw city data in a readable format.

Connecting to this data is a single-step process that gives your AI client immediate access to NYC's open data.

Built For

This MCP is built for professionals who need to turn raw NYC municipal data into reports or analysis.

Urban Planners

Use the agent to analyze mobility patterns and bike network coverage.

Data Journalists

Hand off the heavy lifting of querying crash datasets and injury details to your AI.

Mobility Analysts

Use sensor counts and crash factors to build safety and traffic models.

What Changes When You Connect

- 01 Access DOT datasets without managing your own API keys.
- 02 Query granular person-level injury data from specific crashes.
- 03 Track street maintenance through closed pothole work orders.

04 Get real-time sensor volumes for pedestrians and cyclists.

Real-World Applications

Safety Audits

An analyst uses the crash factor tools to identify dangerous intersections for new bike lane proposals.

Maintenance Tracking

A researcher checks the completion dates of pothole repairs to evaluate city response times.

Traffic Volume Studies

A planner uses sensor counts to determine if a specific street needs more pedestrian infrastructure.

News Reporting

A journalist pulls recent crash data to write stories about street safety trends in specific boroughs.

Patterns to Avoid

Vague crash queries

❌ AVOID

Asking your agent to find all crashes in New York City to see what happened last year.

✓ INSTEAD

Use `search_traffic_crashes` to narrow your search by specific zip codes or date windows for much cleaner results.

Broad infrastructure searches

❌ AVOID

Asking for a list of all potholes in the city to check on repair progress.

✓ INSTEAD

Use `search_pothole_work_orders` to filter by borough or specific work order numbers instead.

Generic sensor requests

❌ AVOID

Asking your agent to tell you how many people are walking in Manhattan right now.

✓ INSTEAD

Identify a specific sensor ID first, then use `search_bike_ped_counts` to pull the exact interval volume data you need.

The Right Fit

Connect this MCP if you need to pull real-world DOT data into your agent for urban planning or safety reporting. Do not connect it if you are looking for real-time GPS navigation or live traffic congestion maps. The decision depends on whether you need historical and maintenance records rather than live driving directions.

NYC Traffic and Street Conditions 8 Tools

This MCP provides direct access to NYC Department of Transportation datasets. You can query crash reports, pothole maintenance logs, and sensor-based traffic counts.

#	TOOL	DESCRIPTION
01	get_bike_ped_sensor	This tool provides the location, coverage, and data range for a specific bike or pedestrian count sensor.
02	get_crash_injuries	Use this to get full details on every person involved in a specific collision using a collision ID.
03	get_pothole_work_order	This tool retrieves all street segments associated with a specific pothole work order via its defnum.
04	list_bike_routes	Access the city's protected and signed bike network segments, filtered by borough, street, or facility class.
05	search_bike_ped_counts	This tool pulls hourly or interval volumes for bike and pedestrian traffic from the NYC sensor network.
06	search_pothole_work_orders	Search through closed DOT pothole work orders to track street condition repairs.
07	search_traffic_crashes	This tool searches NYC motor-vehicle crash reports using filters like borough, zip code, or date.
08	top_crash_factors	Identify the most frequent primary contributing factors for crashes within a specific time window.

See It in Action

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

U What are the main causes of crashes in NYC over the last 365 days?



The top contributing factors for the last 365 days are [factor 1], [factor 2], and [factor 3].

U How much bike traffic was recorded on 6th Ave in Midtown recently?



Based on sensor data for the 6th Ave corridor, the interval volumes for bikes are [count] per hour.

U When was the pothole repair on 14th St finished?



The work order for that segment was closed on [date].

Frequently Asked Questions

01 Do I need an NYC Open Data API key?

No. This MCP handles the connection to the DOT datasets so you don't have to manage keys.

02 Can I see specific injury details for a crash?

Yes. If you have a collision ID, you can use the tool to see the age, injury severity, and safety equipment used by people in that crash.

03 How can I find out if a pothole has been fixed?

You can search for closed pothole work orders using the street name or a specific work order number.

04 What kind of sensor data is available?

The MCP provides interval volumes for both bike and pedestrian traffic from the city's sensor network.

05 Which AI clients can I use with this MCP?

You can use this with any MCP-compatible client like Claude, Cursor, Windsurf, or VS Code.

06 Do I need an API key?

No. NYC Open Data serves all public datasets anonymously over its SODA API (data.cityofnewyork.us). This MCP defines no credentials and needs nothing configured.

07 How current is the data?

Each dataset is updated on its own cadence (311 daily, trip records yearly, tonnage monthly, ...). The `get` tools and `search_datasets` expose the last update timestamp, and the rows you read are the platform's current state.

08 What do the crash injury numbers mean?

Each crash row carries the counts of persons/pedestrians/cyclists/motorists injured and killed, plus the recorded contributing factors for up to five vehicles. The per-person detail (severity, age, equipment) is a separate dataset, joined by `collision_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 <code>"nyc-traffic-street-conditions": { "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

NYC Traffic & Street Conditions 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 NYC Traffic & Street Conditions. 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	September 2026
MCP Server	NYC Traffic & Street Conditions MCP
Server ID	01a0dfcf-c6c7-7225-88c3-19323c69d262
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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/en/ai-agent-connect/nyc-traffic-street-conditions.