

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

Air Quality in the Paris Region

Get official Airparif air quality data through your AI client.

Air Quality in the Paris Region (Airparif) connects your AI agent to the official Île-de-France air quality API. It provides daily forecasts for specific communes or intercommunalities, tracks high-pollution episodes, and lets you pull hourly history or route-based forecasts for planning outdoor activities.

A+ Quality Score 98.33/100

paris

france

air-quality

airparif

aqhi

horair



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.

Air Quality in the Paris Region (Airparif) MCP

8 tools available

Cloud-hosted on Vinkius

This MCP gives your AI client direct access to official Airparif data for the Île-de-France region. Instead of searching through web dashboards, you can ask your agent for specific air quality indices for a commune using its INSEE code or for an entire territory using a SIREN code. You can check if a high-pollution episode is currently active or planned, which is useful for deciding if it is safe to exercise outdoors. If you need to look backward, you can pull hourly concentration history for specific pollutants like NO₂, O₃, or PM_{2.5} at any latitude and longitude. For those planning travel, the MCP provides hourly forecasts along a specific route. It handles the authentication via an Airparif API key, making it easy to pull official color-coded quality scales or narrative bulletins directly into your workflow.

Core Capabilities

01 — Commune-level forecasting

Your agent uses INSEE codes to get precise daily air quality indices for specific towns or sectors.

02 — Route-based planning

The AI calculates hourly air quality forecasts along a path defined by longitude and latitude pairs.

03 — Pollution episode alerts

Your agent can check for active or upcoming high-pollution events and retrieve official government messages.

04 — Historical data retrieval

The AI pulls hourly concentration history for specific pollutants at any given coordinate.

05 — Territory-wide monitoring

Your agent uses SIREN codes to pull air quality data for entire intercommunalities.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/air-quality-in-the-paris-region-airparif — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Provide your Airparif API key in the configuration.
- 03 Ask your AI agent for air quality data using natural language.
- 04 The agent calls the specific Airparif tool to fetch the data.
- 05 Your agent presents the forecast, history, or alert status to you.

Connect your AI client to the Vinkius-hosted MCP and start querying Airparif data immediately.

Built For

This MCP is built for anyone monitoring environmental health in the Île-de-France region.

Urban Planners

They hand off route planning and territory-level data to their AI to assess environmental impact.

Health Researchers

They use the historical pollutant data to analyze air quality trends over time.

Outdoor Activity Organizers

They check for high-pollution episodes to decide if events or trips are safe.

What Changes When You Connect

- 01 Access official Airparif data without manual API coding.
- 02 Get precise air quality forecasts for specific coordinates or communes.

-
- 03** Monitor real-time pollution episodes through your AI interface.
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- 04** Analyze historical pollutant concentrations for specific locations.
-

Real-World Applications

Cycling Route Planning

Ask your agent to find the cleanest path for a bike ride by checking hourly forecasts along a specific route.

Health Monitoring

Check for active high-pollution episodes to determine if outdoor exercise is advisable today.

Environmental Analysis

Retrieve historical NO2 or PM2.5 levels for a specific location to study air quality trends.

Local Government Reporting

Use the official color scales and forecaster bulletins to generate environmental status reports.

Patterns to Avoid

Vague location requests

❌ AVOID

Asking your agent to check the air quality in Paris generally without any specific identifiers.

✓ INSTEAD

Use an INSEE code for specific towns or a SIREN code for entire territories with ``air_index_interco`` or ``air_index_forecast``.

Ignoring current alerts

❌ AVOID

Planning an outdoor event based only on general daily averages while ignoring active pollution spikes.

✓ INSTEAD

Check for active or upcoming high-pollution events using ``air_high_pollution_episodes`` to ensure safety.

Broken API troubleshooting

❌ AVOID

Assuming the connection is dead when you receive a 403 error during a data request.

✓ INSTEAD

Run ``air_key_info`` to verify if your Airparif API key is valid, missing, or expired.

The Right Fit

Connect this MCP if you need official Airparif data for the Île-de-France region to drive environmental or health decisions. Do not connect it if you are looking for global air quality data outside of this specific territory. The decision rests on whether your work requires the official color-coded scales and bulletins used by local French authorities.

Air Quality in the Paris Region 7 Tools

This set of tools provides direct access to official Airparif data, covering everything from real-time pollution alerts to historical pollutant concentrations.

#	TOOL	DESCRIPTION
01	air_index_colors	This tool provides the official color legend for air quality. Use it to translate quality words into the standard color scale for your reports or UI.
02	air_key_info	This tool checks your Airparif API key status. Use it to diagnose 403 errors by verifying if your key is missing, invalid, or expired.
03	air_bulletin	This tool retrieves the official narrative bulletin from Airparif forecasters. It provides the context behind the numeric air quality indices.
04	air_high_pollution_episodes	This tool identifies active or planned high-pollution episodes. It returns official messages and status updates for today and tomorrow.
05	air_hourly_history	This tool pulls hourly air quality history for a specific coordinate. You can request data for pollutants like no2, o3, pm10, or pm25 over a lookback period of up to 500 hours.
06	air_hourly_route	This tool forecasts hourly air quality along a specific path. Provide at least two longitude and latitude pairs to see how air quality changes along your route.
07	air_index_forecast	This tool provides daily air quality index forecasts for specific communes. Use an INSEE code to get the overall index and specific pollutant levels.
08	air_index_interco	This tool delivers daily air quality forecasts at the intercommunality level. It uses SIREN codes to define the territory.

See It in Action

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

U What will the air quality be in central Paris tomorrow?



Using `air_index_forecast` for INSEE 75056, the forecast shows the daily index and specific pollutant levels. You can also use `air_index_colors` to see the official color scale and `air_bulletin` for the forecasters' written report.

U Is there a high-pollution episode in effect?



The `air_high_pollution_episodes` tool shows if an episode is currently active or planned, including the official status for today and tomorrow and the official messages in English and French.

U Plan a bike trip across Paris this Sunday around the air quality



The `air_hourly_route` tool can forecast the hourly index along your specific path for Sunday. You can combine this with `air_high_pollution_episodes` to ensure no active pollution alerts affect your trip.

Frequently Asked Questions

01 Do I need my own Airparif API key?

Yes, you need a free API key from Airparif to authenticate the calls. You will provide this key when setting up the MCP.

02 Which regions does this MCP cover?

This MCP provides data specifically for the Île-de-France region via the official Airparif API.

03 How can I check air quality for a specific town?

You can use the `air_index_forecast` tool by providing the 5-digit INSEE code for that commune.

04 Can I get data for a specific route?

Yes, the `air_hourly_route` tool allows you to provide longitude and latitude pairs to forecast air quality along a path.

05 What happens if I get a 403 error?

Use the `air_key_info` tool to check if your API key is valid, expired, or if it has the necessary permissions.

06 Do I need an API key, and is it free?

Yes — one key, free: Airparif issues it for its open API. This MCP requires the `AIRPARIF_API_KEY` credential; every call sends it in the `X-API-Key` header. Without it the calls fail with a 403 "Api Key missing" — run `air_key_info` to check the configured key's state.

07 Which pollutants can I request?

One or more of: `indice` (the air quality index itself), `no2`, `o3`, `pm10`, `pm25` — comma-separated in the `pollutant` parameter of the hourly tools. The default is `indice` only.

08 How do I get the INSEE / SIREN codes for a place?

The Paris commune is INSEE 75056 and the four Paris sectors are 75101–75104; other communes keep their standard 5-digit INSEE code. Intercommunalities (EPCI/EPT) are keyed by their 9-digit SIREN code. `air_index_forecast` falls back to the platform's default scope when `insee` is omitted.

09 What do the 403 responses mean?

A 403 "Api Key missing" means no credential is configured; a 403 "Invalid key" means the key is not accepted by the platform. In both cases, start from `air_key_info`, which returns the key's expiration timestamp and its granted rights.

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>"air-quality-in-the-paris-region-airparif": { "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

Air Quality in the Paris Region (Airparif) 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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LICENSE & USAGE

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