MCP SERVER | NO CODE | CLOUD HOSTED

Boeing Developer Tools MCP for AI Agents

Analyze global aviation data, flight logistics, and aircraft specifications.

Boeing Developer Tools delivers global aviation intelligence directly to your AI client. It lets you query real-time flight tracking, check Jeppesen aerodrome details, validate aircraft specs, and manage parts inventory for Boeing models.

A+ Quality Score 100/100

flight-intelligence | aviation-data | aerospace-engineering | real-time-tracking | aerodrome-data

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vinkius.com/mcp/boeing-developer-tools

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.

Boeing Developer Tools MCP

10 tools available
Cloud-hosted on Vinkius

Need to handle complex aviation data without relying on outdated manual reports? This MCP gives your agent direct access to the full Boeing Developer Tools ecosystem. You can pull live flight status or check runway congestion straight into your workflow. Instead of manually scraping raw PDF documents, you get immediate answers about airport restrictions, aircraft dimensions, and required parts inventory.

Connecting this through Vinkius means your AI client acts as a single gateway to thousands of tools. It lets you diagnose fleet ground delays using real-time Jeppesen taxi times or validate structural metrics for specific Boeing components—all without leaving your development environment.

Core Capabilities

01 — Track live flight status and events

Get real-time updates on individual commercial flights, including their current tracking data and operational status.

02 — Map detailed airport metadata

Retrieve Jeppesen's full dataset for any major aerodrome, providing coordinates, physical structure details, and ground operations data.

03 — Assess runway congestion and taxiing delays

Check the current operational status of airport runways and get live metrics on active taxiing delays in high-traffic areas.

04 — Identify critical airspace constraints

Search for immediate Notice to Air Missions (NOTAMs) or retrieve general airspace restrictions affecting flight paths.

05 — Validate aircraft engineering specifications

Look up detailed parameters, dimensions, and configurations for specific Boeing model aircraft.

06 — Manage parts supply chain data

Search the global aviation supply chain to check availability, lifecycle status, and pricing for required Boeing components.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/boeing-developer-tools** — connect your AI agent in three steps.

01 Subscribe to this MCP and provide your unique Boeing Aviation ID Bearer token.

02 Authorize your AI client connection through the Vinkius catalog.

03 Instruct your agent to fetch high-fidelity aviation reports, like real-time flight events or aerodrome details.

The bottom line is: you tell your AI client what data you need—whether it's a part number or a NOTAM code—and the MCP handles the secure connection and retrieval of complex aerospace information.

Built For

This MCP serves aviation analysts, operational teams, and aircraft engineers. It’s for anyone who gets bogged down wading through disparate sources like raw PDF documents or multiple vendor dashboards to get a single truth about flight logistics.

Aviation Analyst

Uses the MCP to map exact airport constraints and live NOTAM restrictions, eliminating manual cross-referencing of regulatory documents.

Operations Team Lead

Instantly diagnoses fleet ground delays by automatically fetching real-time Jeppesen taxi times across multiple airports.

Aircraft Engineer

Finds precise parts inventory and structural metrics for Boeing models without having to switch between the development workflow and a separate supply chain portal.

What Changes When You Connect

01 Instantly diagnose ground delays: Use the `get_taxi_time` tool to get real-time average taxi times across any airport, cutting out manual operational checks.

02 Stay compliant with airspace rules: Running `search_notams` means your agent immediately flags critical closures or restrictions before a flight plan is finalized.

03 Optimize maintenance planning: The `check_part_availability` tool validates current stock and pricing for specific Boeing components, eliminating supply chain guesswork.

04 Deep dive into airport logistics: Use `get_aerodrome_details` to pull Jeppesen's full physical metadata—coordinates and ground ops data—in one go.

05 Validate aircraft integrity: The `get_aircraft_specs` tool gives precise dimensional and configuration metrics for Boeing models, critical for engineering reviews.

Real-World Applications

Diagnosing a fleet delay after landing

An operations team lead asks their agent to check the status at JFK. The agent uses `get_runway_monitor` and `get_taxi_time` simultaneously, reporting that while runways are clear, outbound taxiing averages 25 minutes due to peak ground activity.

Planning a route through restricted airspace

An aviation analyst needs to know if an airport is usable. The agent first runs `search_notams` and then uses `get_airspace_info` to confirm that the required flight path has no active closures or critical alerts.

Determining necessary replacement parts

An aircraft engineer needs a specific component for an old model. The agent runs `search_boeing_parts` and confirms availability, then uses `check_part_availability` to get the latest pricing data.

Comparing airport infrastructure suitability

A logistics planner compares two potential destinations by using `get_aerodrome_details` for both ICAO codes. They compare physical metadata and ground operations metrics side-by-side to make a final recommendation.

Patterns to Avoid

Checking only runway status

✗ AVOID

A user thinks they just need to know if the main runways are open, so they only check for general operational closures. This misses critical local delays.

✓ INSTEAD

Don't stop at checking runway capacity. Always complement `get_runway_monitor` by using `get_taxi_time` and `search_notams`. That combination gives the full picture of ground movement limitations.

Assuming component availability

✗ AVOID

An engineer assumes a part is in stock because it's a standard model, only to find out later that the supply chain requires an immediate manual search.

✓ INSTEAD

Never guess on parts. Always use `search_boeing_parts` first, followed by `check_part_availability`. This validates both current global stock and pricing.

Ignoring local restrictions

✗ AVOID

A flight planner uses general airspace data but forgets about temporary closures affecting only one specific taxiway intersection.

✓ INSTEAD

Always run `search_notams` when planning. This ensures you catch immediate, localized alerts that override broader airspace rules.

The Right Fit

Use this MCP if your job involves synthesizing aviation data from multiple specialized sources—you need to correlate real-time flight events with static infrastructure details like Jeppesen coordinates or regulatory notices. You must be able to pull information about both aircraft components and live ground operations.

Don't use it if you only need general weather forecasts or simple flight path drawing. For those needs, a dedicated meteorology tool will work better. If your primary goal is simply finding the cheapest part number without checking its actual stock status, then `search_boeing_parts` alone isn't enough; you'll also need to run `check_part_availability`. This MCP excels when multiple data points must be correlated to give a complete operational picture.

Boeing Developer Tools MCP: Analyzing complex Jeppesen aerodrome metadata

Manually checking an airport's details requires logging into several portals: one for coordinates, another for runway status, and a third just for ground operations data. You end up copy-pasting disparate pieces of information—a mess that takes minutes per location.

With this MCP, your agent handles all the heavy lifting. Instead of juggling tabs, you ask it to pull the full Jeppesen dataset using `get_aerodrome_details`. You get a single, structured report containing everything from physical coordinates to ground flow metrics.

Boeing Developer Tools MCP: Validating real-time flight logistics and NOTAMs

Before approving any flight, teams typically have to manually check the operational status via a web dashboard, then cross-reference that with a separate feed for emergency airspace notices. This is slow, high-risk work.

Now, your agent can monitor real-time congestion and critical alerts simultaneously. By calling `get_flight_events` alongside `search_notams`, you get an immediate, consolidated report

confirming if the flight path is safe and operationally viable.

Boeing Developer Tools: 10 Aviation Data & Flight Logistics Tools

Use these tools to get structured data on everything from global runway congestion and NOTAMs to specific Boeing part inventory and aerodrome metadata.

#	TOOL	DESCRIPTION
01	`get_runway_monitor`	Checks the current real-time congestion status of an airport's runways.
02	`check_part_availability`	Searches for the stock availability and pricing details of specific Boeing parts.
03	`get_aerodrome_details`	Retrieves comprehensive Jeppesen metadata, coordinates, and ground operational specifics for an airport.
04	`get_aircraft_specs`	Provides detailed technical specifications, including dimensions and configurations, for Boeing aircraft models.
05	`get_airspace_info`	Retrieves current airspace restrictions and associated metadata required for flight planning.
06	`get_flight_events`	Gathers real-time tracking events and operational status updates for active commercial flights.
07	`get_taxi_time`	Calculates the current average taxiing time through an airport's ground operations.
08	`search_notams`	Searches for and summarizes critical Notice to Air Missions (NOTAMs) affecting a specific airspace or runway.
09	`search_boeing_parts`	Queries the Boeing global aviation supply chain database for component information.
10	`search_runways`	Finds parameters and structural details associated with a specific airport's runways.

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 current runway congestion levels and taxiing delays for LAX right now?

LAX Operational Status Report

- **Runway Monitor:** Stable flow. No major closures detected.
- **Taxi Times (Outbound):** Average 18 minutes. Minor slowdown reported near Gate C.
- **Status Summary:** Operations are running smoothly, but expect moderate delays in ground movement due to high volume.

U Find the structural specs and required parts for a B737-800.

B737-800 Technical & Parts Check

- **Wingspan:** 35.7 meters (117 ft 2 in).
- **Max Fuel Capacity:** ~74,000 Liters.
- **Required Part Example:** Landing Gear Actuator (P/N: XYZ-987). Status: **In Stock.** Price: $12,500. Lead Time: 2 days.

U Summarize all critical airspace alerts for Newark Airport.

EWR NOTAM Alert Summary

- 🚨 **Critical Notice:** Runway 13/31 is closed to all commercial traffic until 2200 local time.
- **Affected Area:** Surface movement restricted between Gate D and Gate E.
- **Action Required:** Plan for alternate taxi routes; expect diversions.

Frequently Asked Questions

01 **How does the Boeing Developer Tools MCP help with airport planning?**

It provides deep, structured data on any aerodrome using Jeppesen's information. You can pull physical coordinates, ground operations details, and runway parameters all in one go, making site comparisons instant.

02 **Can the Boeing Developer Tools MCP tell me about aircraft parts?**

Yes. It gives you a direct connection to the global supply chain. You can check if specific components are in stock and what their current pricing is, eliminating guesswork for engineers.

03 **What if I need real-time flight data? Does the Boeing Developer Tools MCP handle that?**

Absolutely. It tracks live commercial flights, giving you up-to-the-minute status and events. You can also check runway congestion and average taxi times to understand current ground flow.

04 **Does this MCP help with airspace regulations or closures?**

It searches for the latest Notice to Air Missions (NOTAMs) and retrieves general airspace information, so you always know about critical temporary closures before flying into an area.

05 **Is the Boeing Developer Tools MCP good for operational teams managing delays?**

It's ideal. You can check real-time runway status using `get_runway_monitor` and supplement that with current taxi times, helping you predict and manage ground movement bottlenecks.

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 `"boeing-developer-tools": { "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

Boeing Developer Tools 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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