

MCP SERVER

NO CODE

CLOUD HOSTED

# FCC Telecom MCP

## Audit US Carrier Compliance and Registration Status

FCC Telecom MCP lets your agent audit corporate telecom providers using official US federal records. Check legal registrations for Internet Service Providers, Interconnected VoIP carriers, and major telecommunications entities by querying the Universal Service Administrative Company (USAC) and Form 499 databases.

**A+** Quality Score 100/100

voip-auditing

carrier-registration

regulatory-compliance

corporate-lookup

telecom-infrastructure



# 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

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## 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

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## 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

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## 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 — 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.

**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](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# FCC Telecom MCP

2 tools available

Cloud-hosted on Vinkius

Need to know if a company selling internet service in America is actually registered? This MCP lets your AI client audit corporate telecom providers against official federal filings. Instead of navigating complex government websites, you send the request, and your agent handles the deep dive into USAC and Form 499 records. You can quickly confirm if an operator has active legal registration numbers (FRN) or trace out a VoIP vendor's structural transparency.

Whether you're vetting a potential partner or conducting due diligence, this MCP pinpoints whether a telecom business is legally cleared to operate in the United States. If you connect it via Vinkius, your agent can run background checks on corporate names by extracting registered legal entities directly from public accountability ledgers. It's a fast way to get definitive compliance answers for any major telecommunications carrier.

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## Core Capabilities

### 01 — Audit Carrier Compliance Status

Confirm the active legal registration numbers (FRN) assigned to modern telecom businesses using federal records.

### 02 — Vet VoIP Infrastructure

Trace Interconnected VoIP vendors and evaluate their structural transparency against official filings instantly.

### 03 — Verify Corporate Existence

Search public accountability ledgers using a partial or full corporate name to extract the real registered legal entity.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/fcc-telecom](https://vinkius.com/mcp/fcc-telecom) — connect your AI agent in three steps.

- 01** Provide the target company's information, such as its known brand name or its specific FCC Form 499 Filer ID.
- 02** Your agent sends this data to the MCP, which queries the official USAC and federal databases for matching records.
- 03** The MCP returns a clear report detailing the carrier's legal status, registration numbers, and operational compliance standing.

The bottom line is you get definitive proof of a telecom provider's current legal standing without visiting multiple government portals.

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## Built For

This MCP is essential for Compliance Officers, Financial Auditors, and Corporate Risk Analysts. If your job depends on knowing whether an external partner has the correct federal registrations to operate in the U.S., this tool saves days of manual research.

### Compliance Officer

You use this MCP when onboarding a new vendor, running background checks to ensure they have all required FCC and USAC filings before signing a contract.

### Financial Auditor

You run audits on client portfolios that include telecom investments, verifying the active registration status of each carrier's Interconnected VoIP assets.

### Corporate Investigator

When researching a market competitor, you use this MCP to find the true legal name and official filing ID behind a partial or commonly known brand name.

## What Changes When You Connect

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- 01 Confirm legal registration immediately. You can use the `lookup_filer_by_id` tool to confirm an operator's active status using their precise FCC Form 499 Filer ID, eliminating guesswork.

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  - 02 Vette unknown companies quickly. If you only know a company's brand name, the `search_telecom_filers` tool finds the official legal entity behind it, even if the name is partial or generic.

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  - 03 Audit VoIP transparency instantly. You can trace out Interconnected VoIP vendors and evaluate their structural compliance status without needing deep knowledge of federal codes.

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  - 04 Save research hours. Instead of clicking through multiple government portals, your agent aggregates USAC data into one simple check, giving you definitive answers on carrier standing.

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  - 05 Gain financial clarity. This MCP ensures that any telecom business you work with has the validated FRN required for major operations in the United States.
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## Real-World Applications

### Vetting a New Partner

A compliance officer is vetting a potential client and only knows their brand name, 'GlobalNet.' They use the `search_telecom_filers` tool to find GlobalNet's registered legal entity. Once they have the precise Filer ID, they run the `lookup_filer_by_id` tool to confirm its active status as a major Interconnected Telecom Carrier.

### Investigating VoIP Risk

A risk manager needs to assess if a small-to-midsize tech firm is using compliant communications infrastructure. They ask their agent to check the company's current operational filings, confirming its Interconnected VoIP status against federal databases.

### Due Diligence on Investments

An auditor must confirm that an acquired telecom asset maintains all necessary USAC registrations. The agent uses the `lookup_filer_by_id` tool, inputting the known Form 499 ID to get a current snapshot of its legal standing.

### Market Intelligence

A market analyst needs to know if a competitor is actually registered as an internet provider. They use `search_telecom_filers` with the competitor's name, confirming both their official corporate identity and service type.

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## Patterns to Avoid

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### Assuming public data is enough

#### X AVOID

Thinking that just finding a company's website or general listing means they are federally registered to operate as an ISP. This ignores crucial compliance details.

#### ✓ INSTEAD

Always run the specific ID through `lookup_filer_by_id` first, and use `search_telecom_filers` if you don't have the ID. The MCP connects directly to official databases for legal certainty.

### Searching by non-official names

#### X AVOID

Trying to find compliance records using a colloquial or marketing name, which will fail because the system needs the legal entity registered with the FCC.

#### ✓ INSTEAD

Use `search_telecom_filers` as your starting point; it's designed to take brand names and map them back to the required official corporate filing ID.

### Ignoring VoIP specifics

#### X AVOID

Assuming that any company with a phone number is automatically compliant for Interconnected VoIP services. The rules are much stricter.

#### ✓ INSTEAD

Be explicit in your prompt, asking the agent to audit the carrier's VoIP status. This ensures the MCP checks the specific structural transparency required by USAC.

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## The Right Fit

Use this MCP if you need definitive proof of a company's legal standing regarding telecommunications services in the United States. Specifically, use it when: 1) You have an exact Form 499 Filer ID and must confirm its current status ( `lookup_filer_by_id` ). 2) You only know a brand name or partial corporate title and need to find the official legal identifier that underlies the business ( `search_telecom_filers` ). Don't use this if: 1) You are looking for

general market trends (use industry reports instead). 2) You simply want contact information. This MCP is purely for regulatory compliance and structural verification of telecom providers; it doesn't handle billing or sales data.

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## The headache of cross-referencing federal databases

Right now, checking a company's operational status requires hopping between multiple government sites. You might find one listing on the corporate registry, but then you have to copy that ID and paste it into a second portal dedicated only to VoIP carriers, and maybe a third for internet service providers. This process is slow, error-prone, and tedious.

With this MCP, your agent handles the whole mess in a single request. You provide the name or the ID; the system checks all relevant USAC and Form 499 databases simultaneously. The result you get back isn't just raw data—it's an actionable report confirming their compliance standing.

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## Get definitive answers with FCC Telecom MCP

You immediately bypass the need to manually search multiple government forms and databases. The agent handles the complex mapping between a company's brand name, its legal corporate entity, and its specific federal filing requirements.

What changes is that you stop guessing about regulatory risk. You start making decisions based on verified, auditable facts provided directly from official US telecom records.

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# FCC Telecom: 2 Tools for Auditing Telecommunications Compliance

Use these two tools to check a company's legal standing, whether by searching a brand name or using a specific federal filing ID.

#	TOOL	DESCRIPTION
01	<code>lookup_filer_by_id</code>	Retrieves specific details for a telecom operator using their exact, unique FCC Form 499 Filer ID number.
02	<code>search_telecom_filers</code>	Performs a broad search across the national telecom database by entering just a company's brand name or partial title.

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## See It in Action

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

**U** Find details for the telecom provider with Filer ID 829223.



I checked the Form 499 database. Filer 829223 corresponds to an active VoIP carrier and their corporate structure operates normally.

**U** Can you check if ExampleCorp provides certified internet services?



Let me search the registry... I found ExampleCorp. They are officially registered as a major Interconnected Telecom Carrier with a validated FRN.

**U** List all active operational filings tied to FRN ending in 456 last year.



Extracting administrative filings reliably...  
Scanning matching records isolated 2 major reports (Form 499-A) legally cleared systematically without discrepancies.

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## Frequently Asked Questions

### 01 How do I use the FCC Telecom MCP to check a known provider's status?

Use your specific Form 499 Filer ID with the `lookup\_filer\_by\_id` tool. This gives you the most precise and current compliance record for that exact entity.

### 02 Can I use FCC Telecom MCP to search by a company's name?

Yes, run the `search\_telecom\_filers` tool. It performs a fuzzy string search across the national database and finds the official registered legal entity associated with that brand.

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**03 What types of carriers can FCC Telecom MCP audit?**

It specializes in auditing Interconnected VoIP vendors, corporate Internet Service Providers, and other major telecommunication carriers operating under USAC/FCC rules.

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**04 Is the data from FCC Telecom MCP live?**

The MCP is designed to query official federal databases directly. This means you are getting compliance information based on the most current records available in those systems.

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**05 Does this MCP help with billing information?**

No, this MCP is strictly for regulatory and corporate compliance auditing. It provides legal registration status (FRN), not financial or billing data.







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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://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
 <b>Claude AI</b>	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 <b>Cursor</b>	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 <b>VS Code</b>	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"fcc-telecom": { "url": "..."</code>
 <b>Windsurf</b>	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 <b>ChatGPT</b>	Settings → Tools & plugins → Add MCP server → Paste endpoint
 <b>Gemini</b>	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

# FCC Telecom 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](https://cloud.vinkius.com) →

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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