

MCP SERVER

NO CODE

CLOUD HOSTED

Focus NFe MCP

Automate Brazilian Fiscal Document Workflow

Focus NFe is your connection to Brazilian fiscal documentation management. It lets your AI agent handle the entire invoice lifecycle for both services (NFS-e) and products (NF-e). You can issue new invoices, check their official status, cancel them with proper justifications, and download the final XML files—all through natural conversation.

A+ Quality Score 100/100

fiscal-invoicing

tax-compliance

brazil-tax

electronic-documents

accounting-automation



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.

Focus NFe MCP

5 tools available

Cloud-hosted on Vinkius

This MCP connects your AI client directly to Brazil's required fiscal APIs. It automates handling service invoices (NFS-e) and product invoices (NF-e), managing everything from creation to archival. You don't need to know API codes or navigate complex government portals; you just tell your agent what needs doing in plain English. For instance, instead of manually logging into a portal to check if an invoice is ready, you simply ask the agent for the status, and it retrieves the authorized details instantly. If the client requests a change, the agent can use its tools to cancel the document correctly, ensuring the right justification reason is attached. The process also handles retrieving the final XML documents needed by accounting teams. By connecting Focus NFe through Vinkius, you give your AI agent reliable access to critical tax compliance functions, making complex Brazilian fiscal workflows manageable from any chat interface.

Core Capabilities

01 — Issue Service Invoices

The MCP issues a new service invoice (NFS-e) instantly when prompted with the required details.

03 — Check Document Status

You can confirm if an invoice is authorized, currently processing, or if it was cancelled at any point in time.

05 — Download XML Documents

It retrieves the authorized, final XML file necessary for accounting departments and long-term storage.

02 — Generate Product Invoices

It creates product invoices (NF-e), handling complex details for multiple items and services in a single transaction.

04 — Cancel Issued Invoices

The MCP cancels existing invoices and requires you to provide a specific justification reason for compliance records.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/focus-nfe — connect your AI agent in three steps.

- 01** First, subscribe to this MCP and provide your Focus NFe API Token and Base URL.
- 02** Next, configure your AI client using those credentials within the Vinkius Marketplace.
- 03** Finally, start giving instructions—whether it's 'Issue a service invoice for X' or 'What is the status of Y?'—to your agent.

The bottom line is you get to manage all Brazilian fiscal compliance tasks through conversational chat, without ever touching an API key or dashboard.

Built For

This MCP targets businesses and professionals operating within the complex world of Brazilian tax law. It's for anyone who gets frustrated by manual portal logins and copy-pasting document details, especially accountants managing high volumes of invoicing.

Accountant

You automate bulk invoice generation and retrieval of XML files needed for month-end closing or auditing.

SaaS Developer

You integrate mandatory Brazilian fiscal capabilities into your application's backend, allowing users to generate compliant invoices directly within your platform.

Operations Manager

You handle the day-to-day management of client invoicing, ensuring documents are issued or cancelled correctly with auditable reasons.

What Changes When You Connect

- 01** Handling cancellations is easy. Instead of manually finding the right form and attaching a justification, you just ask the agent to `cancel_document` with the reason in chat.

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- 02** You cut down on compliance errors by centralizing document handling. Whether it's generating an NF-e or NFS-e, your agent manages the process end-to-end using the correct tools.
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- 03** Forget logging into five different portals to check status. You ask the agent to `consult_document`, and you get a real-time, single source of truth about the invoice's lifecycle.
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- 04** The final output is always ready for accounting. With one command, you can use `download_xml` to pull the authorized file directly into your workflow.
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- 05** It handles both service and product invoicing equally well. You can ask it to `emit_nfse` or `emit_nfe`, and it knows exactly which fiscal rules apply.
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Real-World Applications

The monthly cleanup of old invoices

An accountant needs to find all outstanding documents for a client, check their status using `consult_document`, and then download the necessary XML files via `download_xml` before month-end closing. The agent handles this entire audit trail in three conversational steps.

Launching a new product line

A SaaS developer needs to integrate compliance features. By connecting Focus NFe MCP, they can expose both `emit_nfe` and `emit_nfse` to their platform, making the billing process fully automated within their code.

Client cancels an order after invoicing

A service was invoiced, but the client backed out. Instead of emailing a cancellation request and waiting for manual processing, the manager tells the agent to `cancel_document` immediately, providing the mandatory reason code.

Emergency invoice generation

A small business owner just finished a consulting gig. They don't have time to navigate complex forms; they simply tell the agent to `emit_nfse`, and it generates the service invoice instantly.

Patterns to Avoid

Treating compliance as a series of manual steps

✗ AVOID

The user logs into the fiscal portal, finds the client's invoice number, manually copies the reference ID, submits it to their agent, and then waits for the agent to run a separate status check.

✓ INSTEAD

Don't copy and paste. Just tell your agent to ``consult_document`` with the client's name and date range. The MCP finds the document and reports the status in one step.

Using generic API wrappers

✗ AVOID

A developer writes a basic wrapper that only handles emissions but fails when the invoice needs to be canceled or updated, leading to compliance gaps.

✓ INSTEAD

Use this MCP. It exposes specific tools like ``cancel_document`` and ``download_xml``, ensuring you have full control over the entire document lifecycle within your code.

Assuming status checks are enough

✗ AVOID

The user asks for a document status using ``consult_document``, but then forgets to download the final XML, causing accounting delays.

✓ INSTEAD

Always pair up status checks. If you confirm authorization with ``consult_document`` and everything looks good, immediately follow up by asking the agent to ``download_xml``.

The Right Fit

Use this MCP if your primary pain point is managing Brazilian fiscal documentation (NF-e or NFS-e) through automation. You need a single source of truth that lets you initiate, check status, modify, and archive documents using natural language commands.

Don't use this if: A) Your business operates outside Brazil; the compliance logic is specific to Brazilian tax law. B) You only need to generate documents without needing subsequent actions like cancellation or XML retrieval (use a dedicated document generation tool instead). C) You are trying to manage other types of records, like employee data or inventory counts—this MCP focuses exclusively on fiscal invoices.

The headache of Brazilian tax paperwork

Right now, managing compliance feels like a scavenger hunt. You open the client portal to check status, then switch tabs to the ERP system to get itemized details, and finally jump into an accounting spreadsheet just to find the XML file needed for audit records. It's repetitive clicking, copying reference IDs, and cross-referencing multiple systems.

With this MCP, you tell your agent what needs doing once. You simply ask it to check the status of a document or to cancel an invoice. The system handles all the necessary API calls and compliance checks behind the scenes. What you get is a single, definitive answer in plain text.

Focus NFe: Full control over your fiscal documents

The manual process forces you to execute separate steps for every action: one sequence for `emit_nfe`, another for checking status using `consult_document`, and a third, entirely different flow just to get the final XML via `download_xml`. You're chained to a rigid, multi-system workflow.

Now, your agent manages that entire lifecycle conversationally. The process flows naturally from emission to consultation to cancellation or download. It's not about running separate scripts; it's about controlling the whole document journey with one prompt.

Focus NFe: 5 Tools for Fiscal Invoicing

These tools let your agent interact directly with the Focus NFe API to manage every stage of Brazilian fiscal documentation—from initial creation to final archival.

#	TOOL	DESCRIPTION
01	<code>consult_document</code>	Checks and returns the current status and detailed information of any specified invoice document.
02	<code>emit_nfse</code>	Generates and submits a Service Invoice (NFS-e) for professional services rendered.
03	<code>cancel_document</code>	Cancels an authorized invoice and requires a specific justification reason for the record.
04	<code>download_xml</code>	Retrieves the final, authorized XML file for a given invoice number ready for accounting systems.
05	<code>emit_nfe</code>	Creates and issues a new Product Invoice (NF-e) with full item details required by law.

See It in Action

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

U Emit a service invoice for R\$500 for 'Consulting Services'.



Service Invoice emitted! Reference: SERV-001. Status: Authorized.

U Cancel invoice REF-123 with reason 'Client requested cancellation'.



Invoice REF-123 cancelled successfully.

U Get the XML for invoice REF-123.



XML downloaded successfully. Ready for accounting integration.

Frequently Asked Questions

01 Does it support both NFS-e and NF-e?

Yes! The tools allow emitting and managing both Service Invoices (nfse) and Product Invoices (nfe) seamlessly.

02 How do I get my API Token?

Log in to the Focus NFe portal and navigate to the API section to generate your token.

03 Can I download the authorized XML?

Yes, use the `download_xml` tool with the document reference to retrieve the full XML content.

04 Is it homologated for all Brazilian cities?







Focus NFe covers thousands of cities for NFS-e emission. You can check their API documentation for the complete list of supported IBGE city codes.

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>"focus-nfe": { "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

Focus NFe 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 · support@vinkius.com

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