

MCP SERVER

NO CODE

CLOUD HOSTED

CurrencyBeacon MCP for AI Agents

Calculate global currency conversions and financial time-series data

CurrencyBeacon gives your AI client direct access to a global financial data engine. It allows you to fetch real-time exchange rates across 160+ currencies, calculate conversions on demand, and pull deep historical time-series data back to 1996 for comprehensive financial auditing.

F Quality Score 3.6/100

currency-exchange

forex-api

market-fluctuation

financial-auditing

time-series-data

global-finance



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.

CurrencyBeacon MCP

5 tools available

Cloud-hosted on Vinkius

Need to track market movements or audit international pricing? CurrencyBeacon connects your AI client to a robust global currency data engine. You stop relying on simple web scrapes or outdated spreadsheets. Instead, you tell your agent what rates you need—whether it's today's mid-market price for USD to EUR, or the exchange rate from 2015.

This MCP handles all the heavy lifting. It gives you tools to check live fluctuations and also provides historical data for financial modeling. If you use Vinkius, connecting CurrencyBeacon adds a reliable source of truth that instantly grounds your AI workflow in global financial reality.

Core Capabilities

01 — Retrieve Current Market Rates

Get the most current mid-market exchange rates for over 160 currencies using your agent.

03 — Audit Past Exchange Rates

Look up specific exchange rates for any single date stretching back to 1996.

05 — Identify Supported Currencies

Pull a complete list of all currencies and their associated symbols the system tracks.

02 — Convert Amounts Across Time

Calculate an amount converted from one currency to another, with the option of specifying a historical date.

04 — Analyze Historical Trends

Fetch daily historical data over a specified range of dates to chart market movements.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/currencybeacon — connect your AI agent in three steps.

- 01 Subscribe to this MCP on Vinkius and enter your unique CurrencyBeacon API Key.
- 02 Pass the key to your AI client (Claude, Cursor, etc.) so it can authenticate your connection.
- 03 Ask your agent a specific question—for example, 'What was the exchange rate for JPY to CAD last Friday?'—and get an immediate, precise answer.

The bottom line is you talk to your AI client like normal, but it uses CurrencyBeacon's tools to pull accurate financial data instantly.

Built For

This MCP is for anyone whose work requires knowing the true value of money across borders. It helps data analysts build financial models and lets e-commerce managers accurately price products globally, without ever having to manually cross-reference rate sheets.

FinTech Developer

Integrates reliable exchange rate data into applications that require accurate, non-scraped financial figures.

E-commerce Manager

Calculates international product pricing and analyzes how past currency shifts might have impacted sales totals.

Data Analyst

Pulls clean time-series data for financial modeling, reporting, or visualizing global market trends.

What Changes When You Connect

- 01 Stop guessing prices. Use the `get_latest_rates` tool to get immediate, mid-market exchange rates for over 160 currencies.

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- 02** Build accurate models with historical depth. The `get_timeseries` tool lets you pull daily rate data across a range of dates for trend analysis.
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- 03** Audit past transactions precisely. Use `get_historical_rates` to find the exact conversion rate that was active on any specific date back to 1996.
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- 04** Simplify international sales. The `convert_currency` tool handles complex conversions, letting you check rates for a given historical date if needed.
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- 05** Never waste time searching for currency codes. Run `list_currencies` once to get the complete list of supported global currencies and symbols.
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Real-World Applications

Pricing international products after a major rate shift

An e-commerce manager needs to know how much 10,000 units of goods cost in the local currency two years ago. They ask their agent to use `get_historical_rates` and get an immediate, audited price point for comparison.

Checking budget conversions for travel

A user needs to know if a \$200 trip budget from the US will cover expenses in Japan next month. They ask their agent to use `get_latest_rates` and get real-time conversion figures.

Financial modeling of global market risk

A data analyst needs a five-year view of the USD/EUR rate volatility. They ask their agent to use `get_timeseries` across 365 days each year, generating clean, structured data for immediate visualization.

Validating old financial reports

An auditor needs to verify a transaction recorded on 2010-12-25. They ask their agent to use `get_historical_rates` and confirm the precise exchange rate used at that time.

Patterns to Avoid

Assuming conversion rates are always live.

✗ AVOID

A user forgets to check if a transaction needs an historical date, asking their agent to convert 100 GBP without specifying the year.

✓ INSTEAD

If you need to calculate a rate for a past date, don't just use `convert_currency`. Use `get_historical_rates` first to define the correct rate for that specific day. Then, you can run your conversion.

Using outdated currency codes.

✗ AVOID

A developer hardcodes a list of 10 currencies into their application, forgetting about newer or regional ones.

✓ INSTEAD

Don't rely on manually maintained lists. Use the `list_currencies` tool to pull the definitive, up-to-date manifest of all supported currency symbols and names.

Trying to track rates over many years at once.

✗ AVOID

A user tries to ask their agent for data spanning 10 years in a single query, causing the system to fail or time out.

✓ INSTEAD

The `get_timeseries` tool has a limit. Break your request into chunks, typically querying one year's worth of data at a time.

The Right Fit

Use this MCP if your workflow requires financial accuracy and the ability to look both forward (live rates) and backward (historical rates). For instance, if you need current market pricing or want to audit past financials, CurrencyBeacon is perfect. Don't use it if you only need simple math—if you just need to multiply two numbers, a basic calculator works fine. If your goal is complex financial forecasting that requires deep data manipulation, check the `get_timeseries` tool first; otherwise, if you just need the most up-to-date rate, stick with `get_latest_rates`.

CurrencyBeacon for AI Agents: Solving Global Rate Calculation Pain Points

Right now, calculating international pricing is a nightmare. You're juggling multiple tabs: one for the current rate, another for tax laws, and yet another to figure out what exchange rate was active six months ago when you first quoted the client. It's slow, it's error-prone, and it requires constant manual checking against volatile market data.

With CurrencyBeacon connected via your AI agent, that entire process disappears. You simply ask for a conversion or historical audit, and you get one definitive number—the true exchange rate at the moment in question. The result is immediate accuracy, allowing you to focus on sales, not spreadsheets.

CurrencyBeacon for AI Agents: Mastering Financial Time-Series Data

When analyzing market performance or optimizing inventory, manually gathering daily rate changes over months is impossible. You'd have to download hundreds of data points and then spend hours cleaning them just to spot a trend.

Now you can ask your agent to pull structured time-series data for an entire range of dates using `get_timeseries`. This moves the process from tedious collection into instant, actionable insight.

CurrencyBeacon: 5 Tools for Financial Time-Series Data

Use these tools to get current exchange rates, audit specific dates, calculate conversions, or pull years of market trend data.

#	TOOL	DESCRIPTION
01	<code>convert_currency</code>	Calculates the value of an amount when converting from one currency to another.
02	<code>list_currencies</code>	Retrieves a comprehensive list of every supported global currency and its symbol.
03	<code>get_historical_rates</code>	Finds the exact exchange rate between two currencies for a specific, single date in history.
04	<code>get_latest_rates</code>	Gathers the most recent mid-market exchange rates available right now.
05	<code>get_timeseries</code>	Fetches daily historical exchange rate data across a defined range of dates, up to 365 days.

See It in Action

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

U What was the exchange rate between USD and JPY on January 1st, 2018?



Historical Rate Audit

DATE	CURRENCY PAIR	EXCHANGE RATE
2018-01-01	USD/JPY	1 = 111.75

On that date, 1 US Dollar bought approximately 111.75 Japanese Yen. This was useful for auditing old investment reports.

U Convert 800 Euros to Canadian Dollars using today's rates.



Real-Time Conversion

✓ Conversion Successful

- **Source:** Euro (EUR)
- **Target:** Canadian Dollar (CAD)
- **Amount:** 800 EUR
- **Result:** 1,125.40 CAD

(Rate used: 1 EUR = 1.407 CAD)

U Show me the daily rate for GBP to USD over the last three months.



GBP/USD Time Series Data

Here is a sample of the historical movement:

- 2024-05-15: 1.278
- 2024-06-01: 1.289
- 2024-06-15: 1.295
- ... (and so on for the full period)

The data shows a slight upward trend in the GBP value against the USD over this timeframe.

Frequently Asked Questions

01 How can CurrencyBeacon help me calculate international pricing?

You use CurrencyBeacon to get real-time rates and check historical rates. This lets you accurately quote prices in different currencies, making sure your margins are correct no matter when the sale closes.

02 Does CurrencyBeacon handle old currency data?

Yes, it does. You can use the MCP to retrieve specific exchange rates for any date back to 1996, which is essential for financial auditing and historical reporting.

03 Is this better than using a standard finance website API?

Yes. CurrencyBeacon integrates directly into your AI agent via Vinkius, meaning you don't need to write complex integration code; you just ask the question and get the structured data back instantly.

04 What if I need to see how rates changed over a year?

The MCP has a time-series tool that lets you pull daily historical exchange rate data across a defined period, making it easy to visualize trends and volatility for modeling.

05 Can CurrencyBeacon list all the currencies I can use?

Absolutely. You can ask your agent to run a tool that pulls a full manifest of every supported currency symbol and name, so you always know what pairs are available.

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 `"currencybeacon": { "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

CurrencyBeacon 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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