MCP SERVER | NO CODE | CLOUD HOSTED

# Open Exchange Rates MCP

## Access global currency rates and financial history instantly.

Open Exchange Rates provides real-time and historical currency data for over 200 global currencies. Use this MCP to instantly convert money between any two currencies, pull time-series data, or analyze OHLC metrics directly through your agent's chat interface.

**A+** Quality Score 100/100

currency-exchange | forex-rates | financial-data | currency-conversion | historical-rates

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vinkius.com/mcp/open-exchange-rates

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.

# Open Exchange Rates MCP

7 tools available
Cloud-hosted on Vinkius

Need reliable financial data without leaving your development environment? This MCP connects global exchange rates straight into your workflow. You can use it to check the most recent rates relative to USD, convert amounts instantly, or pull detailed historical trends for specific dates. The system lets you gather Open-High-Low-Close (OHLC) metrics, which is critical when building financial reports. Instead of manually querying complex APIs, you just ask your agent what you need. Since we host this within the Vinkius catalog, connecting it to any MCP-compatible client means all global financial data is available from one spot. It's about getting accurate, reliable numbers for anything from international e-commerce pricing checks to deep market analysis.

## Core Capabilities

**01 — Convert currency amounts**

Takes a value and converts it accurately between any two supported currencies.

**02 — Fetch the latest rates**

Retrieves immediate, real-time exchange rates for multiple currencies relative to a base currency.

**03 — Analyze historical trends**

Pulls exchange rate data for any specific past date or tracks changes over an entire time period.

**04 — Retrieve detailed market metrics**

Gathers Open-High-Low-Close (OHLC) data points essential for deep financial reporting and analysis.

**05 — Verify API usage**

Checks your personal account limits and current consumption against your subscription plan.

## One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/open-exchange-rates** — connect your AI agent in three steps.

01 Subscribe to this MCP and provide your Open Exchange Rates App ID.

02 Direct your AI client (Claude, Cursor, etc.) to the connection. Your agent now has access to all global financial tools.

03 Ask a natural language question, like 'What was the exchange rate between JPY and USD on May 1st?' The MCP sends back the accurate data.

The bottom line is you get complex, reliable currency data simply by asking your agent a question.

## Built For

Anyone dealing with money across borders needs this. Financial analysts who spend hours pulling historical spreadsheets; e-commerce managers setting international pricing models; and developers building anything that touches global currency exchange rates.

**Financial Analyst**

Uses the MCP to pull specific dates of OHLC data or track multi-year trends for market reports without leaving their analysis tool.

**E-commerce Manager**

Checks real-time conversion rates when adjusting international product pricing, ensuring accurate margins across different markets.

**Software Developer**

Tests complex currency logic and verifies API responses inside their code editor before deploying a payment feature.

## What Changes When You Connect

01 Instantly convert amounts: Use the `convert_currency` tool to get accurate, up-to-the-minute values between any two currencies. No more manual spreadsheet lookups for pricing adjustments.

02 Deep market insights with OHLC data: Pull Open-High-Low-Close metrics using `get_ohlc`. This level of detail is crucial when building professional financial reports or running backtesting simulations.

03 Historical context on demand: Need to know what the rate was last year? The `get_historical_rates` tool lets you pinpoint exchange rates for any specific date, perfect for compliance or yearly comparisons.

04 Track trends over time: Instead of single data points, use `get_time_series` to pull full rate histories. This shows genuine market movement and helps predict volatility across different periods.

05 Know your limits: Use the `get_usage` tool to check your plan status right from the chat. You'll always know if you're hitting a quota wall before your mission stalls.

## Real-World Applications

**Comparing foreign market pricing**

An e-commerce manager needs to adjust prices for a new region and needs to verify the conversion rate between local currency X and USD. They simply ask their agent, 'What is the current exchange rate from X to USD?' The agent uses `get_latest_rates` and returns the precise number needed for pricing.

**Building a quarterly financial report**

A financial analyst needs data showing how much a certain asset was worth three years ago. Instead of navigating complex web forms, they ask their agent to run `get_historical_rates` for the exact date range, instantly populating the required table.

**Testing cross-border payment logic**

A developer is building a checkout flow and needs to simulate payments from five different countries. They use the agent's ability to run `convert_currency` multiple times, testing the currency logic instantly without writing complex API calls.

**Analyzing market volatility**

A trader wants to see if a pair of currencies has been stable or volatile over the last six months. They use `get_time_series`, which pulls the entire rate history, letting them visualize genuine trend data for their models.

# Patterns to Avoid

### Asking for general financial advice

✗ AVOID

A user types: 'Should I invest in gold or oil?' The agent might give a vague, high-level answer based on generic knowledge.

✓ INSTEAD

This MCP only provides data. If you need rates to compare assets, use `get_latest_rates` for the current market value of those currencies, then run `convert_currency` to standardize them.

### Assuming a single rate works forever

✗ AVOID

A user assumes that yesterday's exchange rate is good enough for today's transaction and uses outdated data.

✓ INSTEAD

Always use the `get_latest_rates` tool to ensure you are using current market figures, or if required, specify a date with `get_historical_rates`.

### Over-relying on single conversions

✗ AVOID

A user converts USD to EUR and then EUR to GBP separately, potentially missing the true direct rate.

✓ INSTEAD

If you need a direct comparison between two currencies (USD to GBP), use `convert_currency` once with both endpoints specified. This ensures accuracy.

## The Right Fit

Use this MCP if your job requires knowing what money is worth across different borders, whether that's right now or years ago. If you are doing financial modeling, reporting, e-commerce pricing, or building payment gateways, this data is essential.

Don't use it if you just need general economic commentary ('Will the dollar be strong next year?'). This MCP provides raw numbers and historical facts, not predictions. If your only goal is to list all available currencies without needing their rates, then `list_currencies` handles that fine. But for anything that involves calculation or time-based comparisons, this tool is what you need.

## Manually tracking global exchange rates is a nightmare.

Right now, if you're adjusting pricing for an international market, you have to open multiple tabs. You check Google for the live rate, then maybe pull data from a spreadsheet that might be yesterday’s numbers. If your model needs historical depth, you spend time navigating complex APIs and manually formatting dates just to get one number.

With this MCP, you eliminate all those manual steps. Your agent handles the complexity. You simply ask for 'the rate on 2021-03-15,' and it gives you the clean figure. It’s immediate data retrieval that fits right into your conversation.

## Get reliable currency rates with Open Exchange Rates MCP

You no longer have to copy-paste exchange rate figures from three different sources—the live feed, the historical database, and the current market summary. The agent pulls all that data into one clean conversation output.

The result is simple: you get accurate financial numbers instantly. Your focus stays on your analysis; we handle the constant flow of global currency fluctuations.

# Open Exchange Rates: 7 Tools

Use these tools to get the latest currency conversion rates, pull historical data for specific dates, and analyze market movements.

| # | TOOL | DESCRIPTION |
|---|---|---|
| 01 | convert_currency | Converts any specified value from one currency to another using current market data. |
| 02 | list_currencies | Provides a complete list of all available currency symbols and their corresponding names. |
| 03 | get_historical_rates | Retrieves the specific exchange rates for any chosen past date. |
| 04 | get_latest_rates | Fetches the most current, up-to-the-minute exchange rates across all supported currencies. |
| 05 | get_ohlc | Gathers Open-High-Low-Close data points for a defined time period to allow deep financial analysis. |
| 06 | get_time_series | Pulls exchange rates that track changes over an extended sequence of dates or periods. |
| 07 | get_usage | Displays your current API consumption and remaining plan limits to manage usage. |

# See It in Action

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

**U** Get the latest exchange rates for EUR and GBP with USD as base.

I've retrieved the latest rates. Currently, 1 USD is equivalent to 0.92 EUR and 0.79 GBP.

**U** Convert 1500 JPY to USD.

Based on the latest market data, 1,500 JPY is approximately 10.12 USD.

**U** Check my current API usage and limits.

You have used 450 out of 1,000 requests this month. Your plan is currently active and healthy.

# Frequently Asked Questions

01 **Can Open Exchange Rates MCP convert currencies using today's rates?**

Yes, absolutely. You can use `convert_currency` to get amounts converted based on the most current market data available through the tool.

02 **Does Open Exchange Rates MCP work with future dates?**

No, this MCP only handles historical and real-time data. You cannot retrieve exchange rates for dates in the future; you must use `get_latest_rates` or specify a past date.

03 **What is OHLC data using Open Exchange Rates MCP?**

OHLC stands for Open-High-Low-Close. Using `get_ohlc`, you retrieve the opening price, highest reached price, lowest recorded price, and closing price for a given period.

04 **How do I check my rate limits with this MCP?**

You simply ask your agent to run the `get_usage` tool. It will show you exactly how many requests you've used and what your remaining plan capacity is.

05 **Does Open Exchange Rates MCP support every currency?**

No, it supports over 200 currencies. If a currency isn't listed in the `list_currencies` tool output, you won't be able to use its rates.

# 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 `"open-exchange-rates": { "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

# Open Exchange Rates 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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