MCP SERVER | NO CODE | CLOUD HOSTED

Real-Time Currency Exchange MCP

Accurate Rates, Live or Historical.

Real-Time Currency Exchange provides your AI access to global forex market data using official European Central Bank rates. Convert amounts between 30+ fiat currencies instantly, handling both today's live exchange rates and historical dates for perfect accounting.

A+ Quality Score 100/100

forex | currency-conversion | real-time-rates | financial-data | market-data | historical-rates

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vinkius.com/mcp/real-time-currency-exchange

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.

Real-Time Currency Exchange MCP

2 tools available
Cloud-hosted on Vinkius

Standard AI models only know currency rates up to the date they were trained on—that's useless for international business. This MCP fixes that by connecting your agent directly to the European Central Bank's real-time data feed. It turns your AI client into a live Forex machine, giving you verifiable rates instantly.

Need to budget across different currencies? Ask it to convert entire spreadsheets using today's exact opening rate. Did you inherit an invoice from 2018 that needs auditing? You can fetch the precise exchange rate for that specific historical day, ensuring your books balance perfectly. Because Vinkius hosts this MCP, you connect once and gain access to reliable financial data without needing to manage API keys or complex authentication. Just tell it what currencies and dates you need, and it delivers audited, global rates.

Core Capabilities

01 — Calculate current conversions

Converts an amount from one currency to another using today's exact real-time exchange rate.

02 — Retrieve live market data

Gets a list of the most recent exchange rates against any base currency you specify.

03 — Audit historical figures

Fetches accurate exchange rates for any past date, perfect for accounting audits or old invoices.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/real-time-currency-exchange** — connect your AI agent in three steps.

01 Your AI client identifies the need to convert money and asks for the source currencies, amounts, and if a specific historical date is required.

02 The MCP routes the request to the European Central Bank data feed, which determines the correct real-time or historical exchange rate based on your parameters.

03 The agent receives the final calculation, showing both the converted amount and the precise rate used for verification.

The bottom line is that you get accurate, verifiable currency conversions instantly, regardless of whether the date is today or decades ago.

Built For

Financial analysts and accountants who dread opening multiple tabs to check exchange rates. If your job involves international invoicing, budgeting across borders, or auditing historical transactions, this MCP saves you hours of manual rate checking.

Accountant

Using the Real-Time Currency Exchange MCP, they can check the exact exchange rates for old invoices to ensure all year-end audits are perfectly accurate.

International Business Analyst

They use this tool to compare projected costs in different currencies (e.g., USD vs. EUR) using today's live market data before presenting a budget.

Budget Manager

When planning multi-currency projects, they run simulations across various date ranges to see how rate fluctuations impact the final budget total.

What Changes When You Connect

01 Eliminate manual rate lookups. You never have to guess an exchange rate again; the agent pulls live data directly from the European Central Bank.

02 Audit old documents perfectly. Need 2018 rates for tax filing? The MCP fetches historical rates, not just today's figures, ensuring flawless accounting records.

03 Simplify international budgeting. You can ask your AI client to compare projected budgets across multiple currencies using current market data in one go.

04 Avoid API key headaches. Because this is hosted on Vinkius, you connect once and gain immediate access without worrying about managing credentials or server uptime.

05 Handles 30+ global currencies. The system supports major fiat currencies like USD, EUR, GBP, JPY, and more, so you don't need a separate tool for every region.

Real-World Applications

Auditing an old receivable invoice

A financial controller needs to check the value of invoices from 2019. Instead of manually searching archives, they ask their agent to use convert_currency for 'GBP' to 'USD' on a specific date in 2019, getting the exact historical rate immediately.

Comparing multi-market budgets

A project manager is building a budget that spans three continents. They use get_latest_rates to pull the current exchange rates for USD, EUR, and CAD simultaneously, allowing them to see the true cost in a single report.

Drafting cross-border financial reports

A corporate strategist needs to summarize quarterly revenue using multiple currencies. They instruct their agent to use convert_currency repeatedly with the most recent data, building an accurate, multi-lingual report draft without ever leaving the chat window.

Forecasting future expense spikes

A department head anticipates purchasing equipment priced in JPY. They ask the agent to use convert_currency with a date range of six months, giving them an idea of how rate fluctuations might affect their final dollar cost.

Patterns to Avoid

Using basic LLM knowledge

✗ AVOID

Asking the AI model simply, 'What is 100 USD in EUR?' The response will use a rate from its training data cutoff (e.g., late 2023) and be inaccurate for today's market.

✓ INSTEAD

Always use the Real-Time Currency Exchange MCP. Ask your agent to run convert_currency, specifying 'today's date'. This guarantees you get the current, live rate from the ECB.

Ignoring historical context

✗ AVOID

When reviewing old financial documents, assuming a simple conversion is enough and using Google search for an approximate rate.

✓ INSTEAD

Never guess rates. Use convert_currency and provide the exact date needed (e.g., '1995-03-12'). The MCP handles fetching the precise historical data point.

Over-relying on general calculators

✗ AVOID

Copying amounts into a generic web calculator that doesn't specify which central bank or rate source it uses.

✓ INSTEAD

Stick to your AI client and the MCP. By using either convert_currency or get_latest_rates, you guarantee the rate comes from the official European Central Bank (ECB).

The Right Fit

Use this Real-Time Currency Exchange MCP if your work requires financial accuracy tied to a specific date—whether that's today, last week, or a year ago. If you are building automated reporting systems, historical auditing tools, or cross-border budgets, this is essential. It solves the core problem of LLMs being outdated on market data.

Don't use this if your task is simply to write a memo about currency exchange or if you only need approximate numbers for general discussion. For basic text generation, stick with standard AI features. If you just need a list of current rates and don't know the base currency yet, start by running get_latest_rates to establish your market context first.

Tracking Multi-Currency Finances is a Nightmare.

Think about it: you have international budgets that require rates from five different countries. You spend time opening multiple tabs, cross-referencing dates, and copy-pasting numbers into spreadsheets, knowing that if you use yesterday's rate instead of today's, your entire projection is wrong.

With this MCP, you eliminate the manual labor entirely. Instead of clicking through five different financial websites, you ask your agent to handle all the conversion logic in one go. You get clean, verifiable numbers instantly.

Get Verifiable Rates with convert_currency

The biggest pain point is that every rate source uses different methodologies or has a different cutoff date. Manually checking rates for both today and historical dates forces you to switch tools constantly, wasting critical time.

Now, just specify the conversion amount, the target currencies, and if it's current or historical. The MCP does the heavy lifting by connecting directly to the European Central Bank data feed. You get reliable answers, period.

Real-Time Currency Exchange: 2 Tools

These two tools let you check current market rates or perform detailed currency conversions, both for today and any historical date.

#	TOOL	DESCRIPTION
01	`convert_currency`	Converts a specific amount from one currency to another using either real-time or historical European Central Bank rates.
02	`get_latest_rates`	Retrieves a current list of exchange rates against a chosen base currency for immediate market checks.

See It in Action

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

U Convert 15,000 USD to EUR using today's exchange rate.

Using the latest exchange rate from the ECB:
15,000 USD = 13,850.50 EUR
(Rate: 1 USD = 0.9233 EUR)

U How much was 100 GBP in USD back on January 1st, 2018?

I checked the historical exchange rates for January 1st, 2018.
100 GBP = 135.21 USD
(Rate: 1 GBP = 1.3521 USD)

Frequently Asked Questions

01 **Does Real-Time Currency Exchange support non-Eurozone currencies?**

Yes. While it uses ECB rates as its foundation, it supports conversion between dozens of global fiat currencies beyond just the Euro, including USD, JPY, and GBP.

02 **How do I find historical exchange rates using convert_currency?**

To check old data, you simply include a specific date in your request. For example, asking to convert '100 EUR to USD on 2015-08-15' will get the accurate rate for that day.

03 **Is this MCP only for real-time conversions?**

No. It's designed for both. You can use convert_currency to handle historical rates, making it ideal for deep accounting audits and long-term financial modeling.

04 **What is the difference between get_latest_rates and convert_currency?**

get_latest_rates gives you a comprehensive list of all current exchange ratios against a base currency. convert_currency uses those rates to calculate one specific amount for you.

05 **Are there any API key requirements for Real-Time Currency Exchange?**

No, there are no authentication keys required. Vinkius handles the connection to the European Central Bank feed automatically, so you just need to connect your AI client.

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 `"real-time-currency-exchange": { "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

Real-Time Currency Exchange 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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