

MCP SERVER

NO CODE

CLOUD HOSTED

ECB Exchange Rates MCP for AI Agents

Analyze official Euro currency values and cross-currency conversion ratios

The ECB Exchange Rates MCP gives your agent instant access to official Euro (EUR) reference rates against over 40 global currencies. Get daily snapshots, compare multiple currency pairs simultaneously, and pull historical rate data for deep financial modeling.

A+ Quality Score 100/100

exchange-rates

currency-conversion

financial-data

euro-reference-rates

market-data



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.

ECB Exchange Rates — Official EUR Reference Rates MCP

3 tools available
Cloud-hosted on Vinkius

When you need accurate, verifiable exchange data, relying on manual lookups or generic APIs just won't cut it. This MCP connects your AI agent directly to the official European Central Bank (ECB) reference rates. It lets you move beyond basic searches; you can ask for a snapshot of all global currencies at once, compare EUR strength against a handful of major economies, or pull historical series spanning months and years.

Your agent pulls this data automatically—no API keys to manage, no complicated setup required. If your workflow relies on reliable currency metrics, connecting this MCP via Vinkius makes it immediately available to any compatible client. You just tell your agent what rates you need, and it handles the rest.

Core Capabilities

01 — Fetch a single EUR exchange rate

Get the official current or historical Euro exchange rate against one specific currency pair.

02 — Compare multiple currencies at once

Pull and compare the Euro's rates against several major global currencies simultaneously, like USD, JPY, and GBP.

03 — Retrieve a complete rate snapshot

Get the latest published ECB reference rates for all tracked currencies in one single data pull.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/ecb-exchange-rates-official-eur-reference-rates — connect your AI agent in three steps.

- 01** Tell your AI agent exactly what you need: Are you comparing three specific currencies, or do you need the full global snapshot?
- 02** Your agent uses this MCP to query the ECB database and pulls the structured data based on your request (e.g., 'Compare EUR vs USD, GBP, CAD').
- 03** You get a clean, formatted set of official exchange rates—ready for immediate analysis or inclusion in a report.

The bottom line is: you ask for the rate, and your agent delivers the precise, officially sourced data points without needing to navigate external websites.

Built For

If you work with global finance or need reliable currency metrics, this MCP saves hours of manual spreadsheet cross-referencing. It's for anyone who needs to move from 'I think the rate is...' to 'The official rate is...!'

Financial Analyst

Using the ECB Exchange Rates MCP, you pull historical and current data to benchmark investment performance across different currencies.

Treasury Manager

You use this MCP to get immediate rate comparisons for hedging strategies or calculating cross-border transaction costs.

Data Scientist

You pull the latest ECB reference rates into a structured data pipeline, allowing you to run models on official market metrics.

What Changes When You Connect

- 01** Stop guessing rates. Use `get_latest_rates` to instantly pull the complete, current reference matrix from the ECB.

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- 02** Compare major currencies easily. The `get_multiple_rates` tool lets you check EUR against USD, JPY, and more in a single call.

 - 03** Deep dive into trends with historical data. `Get_exchange_rate` allows you to model rates over specific daily, monthly, or annual periods.

 - 04** Reduce dependency on third-party APIs. This MCP uses the official ECB source data, giving your analysis maximum credibility.

 - 05** Save time in reporting. You can automate entire currency comparison sections of a report using multiple tools.
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Real-World Applications

Comparing investment performance across regions

A financial analyst needs to know if an investment performed better against the Euro over the last quarter. They use `get_exchange_rate` to pull monthly historical data for EUR/GBP and EUR/CAD, allowing them to generate a precise comparative report.

Building a global market dashboard

A data scientist needs to populate a live dashboard with current rates. They run `get_latest_rates` to grab the full snapshot of all 40+ currencies, updating their model in real-time.

Quickly checking transaction costs

A treasury manager needs an immediate idea of cross-border transfer fees. They use `get_multiple_rates` to check the Euro against their top five operational currencies, ensuring they pick the most efficient pair instantly.

Patterns to Avoid

Assuming basic API coverage

X AVOID

Trying to pull rates for niche or non-major economies using a general financial data tool that doesn't source from the ECB.

✓ INSTEAD

Always use this MCP, specifically `get_exchange_rate`, when you need verifiable Euro rates backed by the European Central Bank. This guarantees official sourcing.

Mixing up single-pair vs. multi-currency checks

X AVOID

Calling a general rate tool that only handles one currency at a time when your report requires checking three different markets.

✓ INSTEAD

Use `get_multiple_rates`. It's designed to compare multiple currencies against the Euro in one request, saving you several function calls.

Using outdated or generalized rate data

X AVOID

Relying on end-of-day estimates from a secondary source for critical intraday analysis.

✓ INSTEAD

When accuracy is paramount, use `get_latest_rates` to pull the official snapshot published around 16:00 CET.

The Right Fit

Use this MCP if your work requires verifiable, official Euro rates from the ECB. For instance, if you need to model currency fluctuations or build a financial report that must cite primary source data, this is your tool. Don't use it if you just need rough estimates or general market trends; in those cases, simpler commercial rate services might suffice. However, if you are dealing with major economies (USD, JPY, etc.) and require official historical context, stick with the tools here. If your primary goal is simply calculating a single conversion without needing the source data metadata, other simple calculator MCPs could work, but this one gives you the necessary depth and provenance.

ECB Exchange Rates: Tracking Official Euro Currency Values for Financial Reporting

Traditionally, building a financial report requiring global currency metrics means juggling multiple data feeds. You're pulling one sheet for the US dollar, another for the Japanese yen, and then manually cross-referencing them to ensure they all match the official Euro reference date. It's tedious, error-prone copy-pasting that slows down analysis.

With this MCP, your agent handles the entire process. You simply ask for a comparison of rates, and it pulls clean, verifiable data points—whether you need a single rate via `get_exchange_rate` or a full snapshot using `get_latest_rates`. You get actionable metrics instantly.

ECB Exchange Rates: Performing Cross-Currency Conversion Ratios with Precision

The biggest time sink when analyzing cross-currency ratios is the comparison phase. If you need to compare EUR against five different currencies, running five separate lookups and then compiling them into a clean table takes serious manual effort.

Now, your agent uses `get_multiple_rates`. You list the currency codes once, and it returns a structured breakdown of all those rates simultaneously. It makes complex comparison tasks trivial.

ECB Exchange Rates: 3 Tools for Advanced Currency Rate Comparisons

These tools let you fetch single exchange rates, compare multiple currencies at once, or get the latest global rate snapshot from the ECB.

#	TOOL	DESCRIPTION
01	<code>get_exchange_rate</code>	Retrieves the Euro exchange rate against one specific currency for a given date or frequency (daily, monthly, annual).
02	<code>get_multiple_rates</code>	Compares the Euro's rates simultaneously across several different currencies using a comma-separated list of codes.
03	<code>get_latest_rates</code>	Fetches an immediate snapshot containing the most recent ECB reference exchange rates for all available tracked currencies.

See It in Action

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

U What's the current EUR/USD rate and what was it three months ago?



EUR/USD Exchange Rate Analysis

Latest: 1 EUR = 1.0842 USD (Source: ECB, April 3rd)

3-Month Trend: The rate climbed from 1.0675 to 1.0842 (+1.6%).

Historical Snapshot:

DATE	RATE
Jan 3, 2026	1.0520
Feb 3, 2026	1.0780
Apr 3, 2026	1.0842

The official ECB source confirms this data.

U Compare the Euro against major currencies like GBP, JPY, and CHF.



EUR vs Major Currencies Comparison

CURRENCY	RATE (1 EUR = X)	30-DAY CHANGE
GBP	0.8567	-0.3%
JPY	163.42	+1.2%
CHF	0.9721	+0.1%

Rates are official ECB reference figures, dated today.

U Give me the full snapshot of all published Euro rates.



Global ECB Rate Snapshot:

- USD: 1.0842
- GBP: 0.8567
- JPY: 163.42
- AUD: 1.6321
- CAD: 1.4533
- ...and 34 other currencies.

The data is sourced directly from the ECB, guaranteeing comprehensive coverage.

Frequently Asked Questions

01 How can I use the ECB Exchange Rates MCP for my financial reporting?

You get access to official Euro reference rates directly within your AI agent. You simply ask it to pull specific data—like comparing EUR against a set of currencies or retrieving historical trends—and it delivers clean, structured data ready for your reports.

02 Does this MCP handle multiple currency comparisons?

Yes, you can easily compare the Euro's strength across several different economies at once. You just tell your agent which currencies to check against (like GBP, JPY, and CHF), and it pulls all those rates simultaneously.

03 Is the data from this MCP reliable for business decisions?

Absolutely. This MCP sources data directly from the European Central Bank (ECB). The rates are official reference figures, which gives your analysis maximum credibility in financial settings.

04 Can I get historical currency rate data using the ECB Exchange Rates MCP?

Yes. You can request specific exchange rates for any given date or retrieve full time series—daily, monthly, or even annual data—to model long-term trends.

05 What if I need to check a lot of currencies at once?







You use the `get_latest_rates` tool. It provides a comprehensive snapshot of all 40+ tracked currencies published by the ECB, saving you from needing multiple calls.

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>"ecb-exchange-rates-official-eur-reference-rates": { "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

ECB Exchange Rates — Official EUR Reference 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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