

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Currency Fee Calculator MCP.

Get exact transaction costs and fee breakdowns instantly.

Currency Fee Calculator MCP handles the math for your currency conversions. It calculates specific service fees, determines total capital requirements, and validates fee structures against your business rules. Your AI client can now provide precise financial breakdowns for any transaction without manual calculation errors.

A+ Quality Score 100/100

fee

conversion

currency

finance

transaction



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.

Currency Fee Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually calculating conversion costs every time you handle a currency exchange. This MCP gives your AI client the math tools it needs to handle transaction logic. If you need to know the exact service fee for a specific amount, your agent can pull that number directly. When you need to know the total amount of capital required to cover both the principal and the fee, the MCP calculates the full value for you. You can also use it to verify that a proposed fee stays within your specific business safety thresholds. For a complete view, your agent can generate a full breakdown of the principal, the fee, and the total amount in one go. It turns your AI client into a precise financial calculator that understands the relationship between principal amounts and service costs.

Core Capabilities

01 — Fee Calculation

Your agent calculates the exact service fee for any given amount.

02 — Total Value Determination

Your agent finds the total capital required to complete a transaction.

03 — Business Rule Validation

Your agent checks if a fee meets your predefined safety limits.

04 — Cost Summarization

Your agent produces a full breakdown of principal and fees.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/currency-fee-calculator — connect your AI agent in three steps.

- 01 Connect the MCP to your client through Vinkius.
- 02 Ask your AI client to perform a currency calculation.
- 03 The agent invokes the necessary tool from the MCP.
- 04 The tool returns the precise fee or total value.
- 05 Your agent presents the final result to you.

Connecting this MCP to your AI client is a single-step process.

Built For

This MCP is built for professionals managing currency exchanges and financial transactions.

Financial Analysts

They hand off transaction cost modeling to the AI.

Accounting Software Developers

They use the tool to verify fee logic in financial applications.

Treasury Managers

They use the agent to validate that fees stay within business thresholds.

What Changes When You Connect

- 01 Eliminates manual math errors during currency conversion.
- 02 Provides instant breakdowns of principal and fee totals.

- 03 Automates the validation of fee structures against business rules.
-

Real-World Applications

Transaction Auditing

Your agent summarizes the costs of past conversions to ensure accuracy.

Budget Planning

You determine the total capital needed for upcoming currency exchanges.

Fee Compliance

The agent checks if new fee structures violate business safety limits.

Customer Quotes

Your agent generates clear breakdowns of fees and totals for clients.

Patterns to Avoid

Manual Fee Estimation

❌ AVOID

You try to guess the service fee in a chat prompt and then ask the agent to verify if it looks right.

✓ INSTEAD

Let the agent calculate the exact amount using ``get_conversion_fee`` to ensure the math is perfect.

Ignoring Total Capital Needs

❌ AVOID

You only account for the principal amount when planning a large currency exchange, forgetting the extra cost of the fee.

✓ INSTEAD

Use ``get_total_transaction_value`` to find the full amount of capital required to cover both the principal and the fee.

Blind Fee Approval

❌ AVOID

You accept a new fee structure without checking if it violates your company's internal safety limits.

✓ INSTEAD

Run the proposed configuration through ``validate_fee_structure`` to confirm it stays within your business thresholds.

The Right Fit

Connect this MCP if your workflow involves frequent currency exchanges or fee modeling. Do not connect it if you only deal with single, static transactions. The decision depends on whether you need an agent that can programmatically validate fee compliance and total costs.

Currency Fee Calculator 4 Tools

These tools handle the math behind currency conversion costs. Your agent uses them to calculate fees, validate business rules, and summarize total transaction values.

#	TOOL	DESCRIPTION
01	get_total_transaction_value	This tool determines the total capital needed to cover both the principal and the service fee.
02	summarize_transaction_costs	This tool provides a complete breakdown of the principal, the fee, and the total transaction value.
03	validate_fee_structure	This tool checks if a proposed fee configuration meets your specific business safety thresholds.
04	get_conversion_fee	This tool calculates the specific service fee amount for a given transaction.

See It in Action

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

U What is the fee for converting 1000 USD with a 2.5% fee?



The conversion fee for 1000 USD at a 2.5% rate is 25 USD.

U How much total will I need for a 500 EUR transaction with a 3% fee?



The total transaction value is 515 EUR.

U Give me a summary for 2000 GBP with a 1.5% fee.



The principal is 2000 GBP, the fee is 30 GBP, and the total value is 2030 GBP.

Frequently Asked Questions

01 What can this MCP calculate?

It calculates specific service fees, total transaction values, and full cost breakdowns including principal and fees.

02 Can I use this with Claude?

Yes, you can connect this MCP to Claude or any other MCP-compatible client.

03 How does it handle business rules?

The `validate_fee_structure` tool allows your agent to check if a fee configuration meets your specific business safety thresholds.

04 Do I need to host the MCP myself?

No, Vinkius hosts and manages the MCP for you.

05 Is it useful for large transactions?

Yes, it is designed to calculate the exact total capital required to cover both principal and fees for any transaction.

06 How do I calculate just the fee amount?

You can use the ``get_conversion_fee`` tool by providing the principal amount and the fee percentage.

07 Can I see a full breakdown of the costs?

Yes, the ``summarize_transaction_costs`` tool provides the principal, the fee amount, and the total value.

08 How do I check if a fee is too high?

Use the ``validate_fee_structure`` tool to compare a proposed fee against a maximum allowed threshold.

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>"currency-fee-calculator": { "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

Currency Fee Calculator 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Currency Fee Calculator. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Currency Fee Calculator MCP
Server ID	01a0c784-d13e-70ff-9bb0-a6e4a0fec8b4
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/en/ai-agent-connect/currency-fee-calculator.