

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

Exchange Fee Calculator MCP

Get precise transaction cost calculations through your AI client.

Exchange Fee Calculator MCP gives your AI agent the ability to handle complex financial fee math. It handles standard percentage calculations, volume-based tiered pricing, and strategy comparisons. You can also use it to check if a transaction meets minimum requirements before you attempt to process it.

A+ Quality Score 100/100

fees

transaction

exchange

finance

calculator



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.

Exchange Fee Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually running fee math in spreadsheets. This MCP gives your AI client the specific tools needed to handle transaction costs accurately. If you need to apply a flat percentage to a specific amount, the tool handles that instantly. For more complex setups, it can automatically pull the correct fee based on volume tiers, so you don't have to remember which bracket a transaction falls into.

When you are deciding between different pricing models, you can have your agent compare a standard fee against a tiered structure to find the cheapest path. It also acts as a safety check. Before you finalize any numbers, the tool can validate that your proposed transaction meets the minimum thresholds required for processing. This keeps your financial workflows accurate and prevents errors caused by sub-minimum transaction amounts.

Core Capabilities

01 — Standard Fee Math

Your agent applies specific percentages to transaction amounts.

02 — Tiered Pricing Logic

The tool identifies the correct fee based on transaction volume.

03 — Cost Comparison

Your agent evaluates different fee models to find the cheapest one.

04 — Transaction Validation

The tool checks if amounts meet minimum processing thresholds.

One Click on Vinkius — From Prompt to Execution

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

- 01 Connect the MCP to Claude, Cursor, or Windsurf via Vinkius.
- 02 Ask your agent to perform a specific fee calculation or comparison.
- 03 The agent invokes the appropriate tool from the MCP.
- 04 The tool returns the precise fee or validation result.
- 05 Your agent presents the final numbers to you.

You connect the MCP to your client and let your agent handle the math.

Built For

This MCP is built for professionals managing high-volume financial transactions who need to automate cost calculations.

Financial Analysts

They hand off fee comparison and volume tier calculations to their agent.

Operations Managers

They use the tool to validate if transactions meet processing requirements.

Accounting Software Developers

They use these tools to verify fee logic within automated workflows.

What Changes When You Connect

- 01 Eliminates manual percentage math for individual transactions.
- 02 Automates the selection of volume-based fee tiers.

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- | | |
|----|---|
| 03 | Identifies the most cost-effective fee model through direct comparison. |
| 04 | Prevents processing errors by validating minimum transaction amounts. |
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Real-World Applications

Fee Model Selection

Compare a flat percentage against a tiered structure to see which costs less for a specific amount.

Volume Tier Auditing

Automatically determine the correct fee when transactions move between different volume brackets.

Pre-processing Checks

Verify that a transaction amount is high enough to be processed before sending it.

Net Amount Calculation

Calculate the final amount remaining after a standard percentage fee is applied.

Patterns to Avoid

Manual Tier Guessing

❌ AVOID

You try to calculate a fee by looking at a spreadsheet and guessing which volume bracket a transaction falls into.

✓ INSTEAD

Let your agent handle the logic by using ``get_tiered_fee`` to pull the exact rate for that specific volume.

Ignoring Minimum Thresholds

❌ AVOID

You send a transaction through your workflow only to have it rejected because the amount was too low.

✓ INSTEAD

Run a check with ``validate_transaction_readiness`` before you attempt to process the transaction to ensure it meets all requirements.

Assuming Flat Fees are Best

❌ AVOID

You stick to a standard percentage model for every transaction without checking if a tiered structure would be cheaper.

✓ INSTEAD

Use ``compare_fee_strategies`` to see if a tiered model actually saves you money on larger amounts.

The Right Fit

Connect this MCP if you manage high-volume financial transactions and need to automate cost calculations. Do not connect it if you only handle one or two simple transactions a month. The deciding factor is whether your fee structures involve multiple volume tiers or minimum processing thresholds.

Exchange Fee Calculator 4 Tools

These tools handle everything from basic percentage math to complex volume tier comparisons and transaction readiness checks.

#	TOOL	DESCRIPTION
01	calculate_standard_fee	This tool calculates a single transaction fee using a specific percentage you provide.
02	compare_fee_strategies	This tool compares a standard flat fee against a tiered fee structure to find the lowest cost option.
03	get_tiered_fee	This tool determines the correct fee for a transaction based on pre-defined volume tiers.
04	validate_transaction_readiness	This tool checks if a proposed transaction amount meets the minimum requirements for processing.

See It in Action

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

U Calculate a 2.5% fee for an exchange of 1000 units.



The fee for 1000 units at 2.5% is 25.0, leaving a net amount of 975.0.

U What is the tiered fee for an amount of 5000?



For an amount of 5000, the applied tier is the High Volume tier with a fee of 100.0 and a net amount of 4900.0.

U Compare a 3% flat fee against the tiered structure for 2500.



The standard fee is 75.0 and the tiered fee is 50.0. The tiered strategy is cheaper.

Frequently Asked Questions

01 How do I use this MCP in Claude?

You connect to the MCP through the Vinkius platform. Once connected, your agent in Claude can call the fee calculation tools directly.

02 Can it compare different fee structures?

Yes. You can use the `compare_fee_strategies` tool to see if a standard flat fee or a tiered fee is cheaper for a specific amount.

03 Does it handle volume-based pricing?

Yes. The `get_tiered_fee` tool automatically determines the fee based on pre-defined volume tiers.

04 Can it check if a transaction is valid?

Yes. The `validate_transaction_readiness` tool checks if a proposed amount meets the minimum requirements for processing.

05 Do I need to provide the percentage for standard fees?

Yes. When using the `calculate_standard_fee` tool, you provide the specific percentage you want to apply.

06 How do I calculate a fee with a specific percentage?

You can use the `'calculate_standard_fee'` tool by providing the total exchange amount and the desired fee percentage.

07 Can I compare different fee structures?

Yes, the `'compare_fee_strategies'` tool allows you to compare a custom fixed fee against the system's tiered fee structure to find the cheapest option.

08 How do I know if my transaction amount is valid?

Use the `'validate_transaction_readiness'` tool to check if your amount meets the required minimum thresholds.

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>"exchange-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

Exchange 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

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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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