

MCP SERVER

NO CODE

CLOUD HOSTED

EU VAT Calculator MCP

Calculate compliant EU taxes instantly.

EU VAT Calculator manages European Union Value Added Tax (VAT) complexity across 27 member states. Use this MCP to calculate taxes for cross-border B2C sales, determine correct tax rates based on product categories, and verify compliance rules like OSS or Reverse Charge. It provides the exact tax amount and total invoice value needed for reliable EU e-commerce billing.

A+ Quality Score 100/100

vat

eu

tax

compliance

accounting

europe



The infrastructure that powers AI agents in the real world.



Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

EU VAT Calculator MCP

3 tools available

Cloud-hosted on Vinkius

Handling VAT across Europe is a regulatory headache. This MCP solves that by giving you precise tools to manage every type of European Union sales tax. Instead of guessing which rate applies, your agent can immediately look up the correct percentage based on where your product ships and what kind of goods it are—whether standard, reduced, or essential.

It handles all three major types of cross-border transactions: domestic sales, B2C consumer shipments (OSS), and B2B reverse charge scenarios. You feed it the details—the countries, the net amount, the buyer type—and it calculates the exact tax owed and the final invoice total. Developers building e-commerce platforms or accounting software use this MCP to ensure their billing is legally sound everywhere in the EU. It's one of Vinkius' core finance tools, meaning you can connect your AI client once and get access to reliable European compliance data for all your projects.

Core Capabilities

01 — Determine VAT rules

Checks a transaction to confirm which specific VAT rule applies (like 'Domestic VAT' or 'Reverse Charge').

02 — Find tax rates by product

Looks up the exact VAT percentage for any country and specifies if the goods are standard, reduced, or essential.

03 — Calculate final taxes

Computes both the specific VAT amount and the total invoice value for a given transaction across EU borders.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/eu-vat-calculator — connect your AI agent in three steps.

- 01** You provide the necessary details: the countries involved, the goods' net value, and the type of sale (e.g., B2C or B2B).
- 02** The MCP runs these inputs through its regulatory logic to calculate the applicable tax rule.
- 03** Your agent returns a clear breakdown, giving you the correct VAT percentage, the specific tax amount, and the final total invoice value.

The bottom line is that you get instant, accurate compliance numbers without having to manually cross-reference EU tax codes.

Built For

E-commerce managers running multi-market sites, developers building global payment systems, and accountants managing international billing cycles. These roles struggle with the sheer volume of changing European tax laws.

E-commerce Operations Manager

Uses this MCP to validate pricing structures for new markets, ensuring every product category has the correct VAT rate applied before a launch.

Software Developer (Fintech)

Integrates these tax calculation tools into payment gateways or accounting APIs, automating compliance checks for cross-border transactions.

International Accountant

Verifies complex B2B and consumer sales records to ensure the proper VAT rule—like Reverse Charge—was applied when closing books at month-end.

What Changes When You Connect

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- 01 Eliminate tax guesswork. Instead of manually checking rate tables, the `lookup_vat_rate` tool finds the exact percentage based on country and product type (Standard, Reduced, or Essential).

 - 02 Handle complex billing automatically. The `compute_transaction_tax` tool calculates the final total and VAT amount for cross-border sales, whether B2C or B2B.

 - 03 Know your compliance status instantly. Use `check_vat_compliance` to confirm if a transaction follows the required regulatory path (e.g., OSS, Reverse Charge).

 - 04 Stop dealing with country variations. This MCP centralizes European tax logic, letting you manage 27 member states from one place.

 - 05 Speed up development cycles. Developers build payment systems knowing they have accurate, reliable EU financial data at their fingertips.
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Real-World Applications

Launching a new product line in France

A company needs to know the tax rate for its specialized medical equipment in France. Instead of calling an agent and waiting hours, they ask their agent using `lookup_vat_rate` and get the specific percentage immediately.

Verifying a corporate purchase

An accountant receives invoices for B2B purchases between two EU countries. They use `check_vat_compliance` to confirm if the transaction correctly utilized the 'Reverse Charge' rule before submitting it for audit.

Processing a cross-border sale from Italy

A seller completes a €500 B2C order going from Italy to Germany. They use the MCP's calculation features to generate an invoice that correctly applies the OSS rules, showing the precise tax and total amount.

Updating a payment gateway

A developer needs to update their platform to handle variable tax rates. Instead of building complex, country-specific logic, they call `compute_transaction_tax` and pass the variables to get accurate totals every time.

Patterns to Avoid

Assuming a universal rate

✗ AVOID

When pricing goods sold across Europe, assuming that if it's 'physical goods,' VAT always applies at a standard 20% rate.

✓ INSTEAD

Always use `lookup_vat_rate` first. This tool checks the specific country and product category (Standard, Reduced, or Essential) to ensure you get the correct tax percentage.

Mixing up B2B vs B2C rules

✗ AVOID

Billing a German buyer using standard consumer sales tax rates when the transaction is actually an international business purchase.

✓ INSTEAD

Before calculating, run `check_vat_compliance`. This verifies if the sale requires 'Reverse Charge' or another specific rule before you use `compute_transaction_tax`.

Manually tracking OSS rules

✗ AVOID

Trying to manually calculate how tax rates change when goods cross multiple EU borders for consumers.

✓ INSTEAD

Use the MCP's dedicated calculation features. Inputting the origin and destination countries lets you use `compute_transaction_tax` to get the legally mandated total invoice value.

The Right Fit

Use this if your core business involves selling goods or services across multiple European Union countries, especially when dealing with complex B2B transactions or consumer direct sales. You need more than just a simple tax lookup; you require rule validation and dynamic calculation. Don't use this if you only operate within one country that has stable, predictable tax laws—a simpler calculator will suffice. Conversely, do not rely on this MCP if your primary need is simply to find the VAT rate for a single, known scenario without needing compliance checks or total amount calculations; then `lookup_vat_rate` is enough. But if you're building an entire checkout flow, this combination of tools gives you the full picture.

The Headache of Cross-Border Tax Compliance

Today, managing VAT means navigating dozens of different country tax codes. You have to check if a sale is B2B or B2C. Then you must determine the specific rate—is it standard, reduced for food, or super-reduced? If the shipment crosses borders, you might need to apply OSS rules or follow Reverse Charge protocols. This process requires multiple spreadsheets, manual cross-referencing, and constant updates.

With this MCP, those complex steps disappear. You feed your agent the variables—the countries and the net amount—and it handles the regulatory logic behind the scenes. It gives you one definitive number: the legally compliant tax total for any EU transaction.

Getting Accurate European VAT Calculations with `compute_transaction_tax``

The manual steps that disappear are checking if the sale falls under OSS, confirming the correct B2B status for Reverse Charge application, and separately calculating the tax amount vs. the total invoice value in different currency pairings.

Now, you don't just get a rate; you get an actionable, final number. This eliminates billing errors and accelerates your checkout process across all EU markets.

EU VAT Calculator: 3 Tools

These tools allow you to calculate tax rates, verify compliance status, and compute the final tax amount for any transaction within the European Union.

#	TOOL	DESCRIPTION
01	<code>check_vat_compliance</code>	Identifies the specific VAT rule that governs a transaction, confirming compliance status for EU sales.
02	<code>lookup_vat_rate</code>	Retrieves the applicable tax rate by specifying an EU country and whether the product is standard, reduced, or essential goods.
03	<code>compute_transaction_tax</code>	Calculates both the VAT amount and the total final price for any given transaction scenario.

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 VAT rate for food in France?



The applicable VAT rate for 'Reduced Goods' in France (FR) is 5.5%.

U Calculate the total for a €100 sale from Italy to Spain for a consumer.



For a B2C transaction from IT to ES with a net amount of €100.00, the applied rate is 21%. The tax amount is €21.00, making the total amount €121.00 under the OSS rule.

U Is a B2B sale from Germany to Ireland subject to reverse charge?



Yes, the transaction follows the 'Reverse Charge' rule because it is a cross-border B2B sale.

Frequently Asked Questions

01 Can the EU VAT Calculator handle B2C sales for consumers?

Yes. The MCP manages complex B2C cross-border (OSS) scenarios, calculating the correct tax amount and total invoice value when a consumer buys goods from one member state to another.

02 How do I check if a transaction needs 'Reverse Charge'?

You use `check_vat_compliance` to verify if a B2B sale is subject to the Reverse Charge rule. This tool tells you immediately whether that complex tax mechanism applies.

03 Does lookup_vat_rate only find general VAT rates?

No, `lookup_vat_rate` distinguishes between Standard Goods, Reduced Goods, and Essential Goods, providing three distinct rate options for accurate pricing.

04 Is this MCP useful for non-EU sales?







This MCP is specialized entirely for the 27 member states of the European Union. For transactions outside the EU bloc, you will need a different tax tool.

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>"eu-vat-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

EU VAT 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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