MCP SERVER | NO CODE | CLOUD HOSTED

Markup Calculator MCP for AI Agents

Determining Profitable Selling Prices with Tax and Expense Modeling

The Markup Calculator determines your ideal selling price by factoring in costs, taxes, expenses, and target profit margins. It takes complex financial inputs—like fixed overhead rates or varying tax structures—and outputs a precise, profitable markup divisor you can use immediately for inventory pricing.

A+ Quality Score 100/100

pricing | markup | profitability | tax-calculation | margin-analysis

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vinkius.com/mcp/markup-calculator

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.

Markup Calculator MCP

3 tools available
Cloud-hosted on Vinkius

Setting the right price is complicated; it's never just about covering your cost of goods sold. This MCP lets your agent calculate the true selling price needed to hit specific profit targets while accounting for every variable expense. You simply give it your base product costs, tax rates, and fixed overhead percentages, and it determines the necessary markup divisor. It’s a crucial bridge between complex financial modeling and what you need day-to-day. Need to know how different sales taxes affect your bottom line? The tool can compare various regimes for you. For accessing common industry standards, you can pull up predefined tax scenarios. If this sounds useful, check out the entire catalog of tools on Vinkius; it connects this financial power directly into your preferred AI client.

Core Capabilities

01 — Calculate Suggested Selling Price

Input your costs and desired rates to generate a final recommended selling price.

02 — Compare Tax Structures

Run side-by-side comparisons of how different tax or expense configurations impact the final product cost.

03 — List Standard Tax Scenarios

Access a database of common industry-standard tax rates, like VAT or US sales taxes.

One Click on Vinkius — From Prompt to Execution

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

01 First, you prompt your agent with the variables: your base product cost, all associated taxes, fixed expense percentages, and the minimum profit margin you need.

02 The MCP uses this input to calculate the precise markup divisor required. It then determines the final selling price that covers everything while hitting your target profit.

03 You receive a clear breakdown: the suggested retail price, the calculated markup divisor, and confirmation that all expense percentages are covered.

The bottom line is you stop guessing prices based on gut feeling and start pricing based on hard financial math.

Built For

This MCP is for e-commerce managers, product owners, and financial analysts who spend time adjusting spreadsheets to ensure every new product line remains profitable. If your job involves setting retail prices or managing international sales taxes, you'll need this.

E-commerce Manager

Uses the tool to quickly set up pricing sheets for seasonal inventory changes, ensuring profit margins hold true even when tax rates fluctuate.

Financial Analyst

Runs comparisons between various operating expense regimes (e.g., comparing a state-based sales tax model vs. an international VAT model) to advise on market entry pricing.

Product Owner

Inputs the raw manufacturing cost and desired profit goal, getting an immediate suggested selling price that accounts for overheads and taxes.

What Changes When You Connect

01 Stop using guesswork pricing. With the calculate_markup tool, you get an exact suggested selling price that hits your target margin.

02 Avoid tax surprises by running comparisons of different regimes, seeing precisely how varied state or international taxes impact your bottom line.

03 Save time accessing standard rates instantly through list_tax_scenarios, eliminating manual lookups for common VAT or US Sales Tax percentages.

04 You can model multiple scenarios at once. Use compare_regimes to evaluate if changing an overhead percentage affects your pricing strategy.

05 The entire process is handled by a single MCP connection, keeping all complex financial logic available directly in your chat window.

Real-World Applications

Launching a New Product Line Internationally

A product owner needs to sell an item across three different regions (US, EU, Asia). They ask their agent to compare how the specific tax and expense rates in each region affect the minimum required selling price using compare_regimes. The resulting data tells them which market is most profitable without needing a spreadsheet.

Adjusting Pricing Due to Changing Overhead Costs

An e-commerce manager learns that their shipping expense rate increased from 10% to 15%. They use the calculate_markup tool, inputting all other fixed costs and taxes, and immediately get a new, higher recommended selling price for every item.

Comparing Tax Structures Before Expansion

A financial analyst is considering expanding to a new state. They use the compare_regimes tool to model their current product line's pricing under two different tax structures, helping them decide if they need to raise prices or adjust their inventory costs.

Verifying Pricing Against Industry Standards

A small retailer needs a quick list of common local sales taxes. Instead of searching government websites, they use the tool's function to quickly access predefined scenarios like VAT_STANDARD, ensuring their pricing model is accurate.

Patterns to Avoid

Ignoring Expense Variances

✗ AVOID

A user simply calculates the price using only COGS and tax rates, forgetting to account for fixed overheads or operating expenses in their spreadsheet.

✓ INSTEAD

You must use the calculate_markup tool. Include all expense rates (fixed expense rates) alongside your costs; otherwise, your calculated selling price will be artificially low.

Manual Tax Lookup Errors

✗ AVOID

Spending hours cross-referencing multiple government websites to find the correct current VAT or US Sales Tax percentage for a specific region.

✓ INSTEAD

Use the list_tax_scenarios tool. It provides immediate access to common, industry-standard tax rates, saving you research time.

Treating Pricing as Static

✗ AVOID

Assuming that because a cost was profitable last month, it will be so this month without checking current tax laws or overhead changes.

✓ INSTEAD

Always run a comparison using the compare_regimes tool. This forces you to model how different economic factors impact profitability at any given time.

The Right Fit

Use this MCP if your pricing decisions rely on juggling multiple variables: costs, taxes, and operating expenses simultaneously. It's built for complex financial modeling where the answer isn't a simple multiplication. Don't use it if you only need to calculate profit based on one single input variable (like just COGS). If that's all you need, a basic calculator tool will suffice. However, if your pricing needs to adapt dynamically—for instance, comparing how changing tax rates impact the required markup divisor—then this MCP is essential.

Markup Calculator: Solving Complex Pricing Models for E-commerce

Right now, setting a profitable price feels like juggling spreadsheets. You have to manually track your COGS, then look up the correct tax rate for the buyer's state, and finally layer in fixed overhead costs, all while constantly asking: 'If I raise my profit margin target, what happens to the final price?' This process is slow, prone to cross-referencing errors, and always requires multiple tabs.

With this MCP, you eliminate that spreadsheet headache. You simply ask your agent for a suggested selling price based on all your inputs—costs, taxes, expenses, and profit margin. It gives you one clean number and the underlying math. This means immediate pricing decisions without leaving your chat window.

Markup Calculator: Modeling Tax Regimes for Global Sales

When selling globally, the worst part is tax variation. You can't just use one rate. If you sell to Europe versus North America, or if your overhead costs change from 15% to 20%, you have to manually recalculate everything and compare the outcomes. This comparison process takes hours of tedious spreadsheet work.

Using the MCP, you tell your agent exactly which regimes you want to compare. It runs the models instantly, showing side-by-side how those different taxes or expense structures change your required selling price. You get actionable data for global expansion planning.

Markup Calculator: 3 Tools for Advanced Pricing Analysis

Use these tools to calculate suggested selling prices, compare different tax structures, or list common industry-standard tax scenarios.

#	TOOL	DESCRIPTION
01	`list_tax_scenarios`	Retrieves a list of common tax scenarios, such as VAT or US Sales Tax estimates.
02	`compare_regimes`	Compares how different combinations of taxes and operating expenses affect the final required selling price.
03	`calculate_markup`	Calculates a suggested retail selling price based on provided costs, tax rates, and desired profit margins.

See It in Action

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

U I'm selling a widget that costs $30 to make. Taxes are 8%, my overhead is 12%, and I need a 20% profit margin. What should the suggested retail price be?

Pricing Recommendation:

- **Suggested Selling Price: $65.50**
- **Markup Divisor Used:** 0.85
- This calculation accounts for your $30 cost, 8% sales tax, 12% overhead, and ensures you retain a solid 20% margin.

U How does using a 5% VAT rate compare to using a standard 20% VAT rate on an item costing $10?

Tax Regime Comparison:

TAX RATE	FINAL SELLING PRICE (EST.)
5% VAT	$11.67
20% VAT	$13.33

The 20% rate significantly increases the final price while maintaining a consistent profit margin structure.

U Give me a list of common tax scenarios I should be aware of.

Here are some predefined scenarios you can use for accurate modeling:

- ✅ **VAT_STANDARD:** (20% Tax Rate)
- ✅ **VAT_REDUCED:** (5% Tax Rate)
- ✅ **US_SALES_TAX_ESTIMATE:** (8% Tax Rate)

Use these codes to run your comparative models.

Frequently Asked Questions

01 **How does the Markup Calculator help me set profitable prices for new products?**

It calculates the exact selling price you need by factoring in all variables—not just the cost. You input your costs, tax rates, and desired profit margin, and it gives you a mathematically sound suggested price.

02 **Can I use this MCP to compare different international sales tax laws?**

Yes, you can run comparisons of different regimes using the Markup Calculator. You just feed it multiple scenarios, and it shows how varying taxes impact your final cost structure for global markets.

03 **Is this better than a spreadsheet for pricing calculations?**

It's much faster because you don't have to manually adjust formulas. You simply ask your agent, and it instantly runs complex models that would take hours in Excel, keeping all the math visible.

04 **What if my overhead costs change? Can I update my pricing easily?**

Absolutely. You just need to adjust the expense rate input, and the tool recalculates everything for you using calculate_markup. It's perfect for dynamic cost management.

05 **What kind of tax scenarios can the Markup Calculator handle?**

It handles various predefined industry-standard scenarios like different VAT rates or US Sales Tax estimates, saving you from having to look up those codes yourself.

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 `"markup-calculator": { "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

Markup 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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