MCP SERVER | NO CODE | CLOUD HOSTED

Cancellation Refund Calculator MCP

Get exact refund amounts and penalty breakdowns instantly.

Cancellation Refund Calculator MCP handles the math for booking cancellations. Your AI client uses it to check if a customer qualifies for a refund, calculate the specific payout after penalties, and create clear financial summaries. It also supports high-volume processing for large reporting tasks.

A+ Quality Score 100/100

refund | cancellation | finance | booking | calculation

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · SEPTEMBER 2026
vinkius.com/en/ai-agent-connect/cancellation-refund-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.

Cancellation Refund Calculator MCP

4 tools available
Cloud-hosted on Vinkius

Managing booking cancellations shouldn't involve manual math or digging through policy spreadsheets. This MCP gives your AI client the ability to act as a precise financial agent for your booking business. Instead of you manually calculating percentages, your agent can instantly determine exactly how much money needs to go back to a customer based on specific penalty rules.

You can hand off complex tasks like checking if a specific booking meets your refund criteria or generating a clean, human-readable breakdown of a transaction. If you're dealing with a massive list of cancellations, you don't have to process them one by one. Your agent can run through multiple scenarios at once to build out high-volume reports. It turns your AI client into a specialized finance tool that handles the heavy lifting of refund logic and penalty application.

Core Capabilities

01 — Eligibility Verification

Your agent checks if a customer meets the requirements for a refund based on your rules.

02 — Exact Payout Calculation

The AI calculates the precise dollar amount to return after subtracting penalties.

03 — Financial Summaries

Your agent produces readable breakdowns of the original price, penalties, and final payouts.

04 — Bulk Processing

The AI handles multiple cancellation scenarios simultaneously for large datasets.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/cancellation-refund-calculator** — connect your AI agent in three steps.

01 Connect the MCP to your client like Claude or Cursor via Vinkius.

02 Provide the booking details and penalty rules to your AI agent.

03 The agent calls the necessary tools to check eligibility or calculate amounts.

04 Your agent delivers the final refund amount or a full financial summary.

Connecting this MCP to your AI client gives it immediate access to your refund logic.

Built For

This MCP is built for businesses that handle bookings and need to automate the math behind cancellations.

Booking Agents

They hand off refund calculations to the AI to speed up customer service responses.

Finance Managers

They use the tool to generate accurate refund reports and verify transaction breakdowns.

Customer Support Leads

They use the eligibility tool to quickly answer customer questions about refund status.

What Changes When You Connect

01 Removes manual calculation errors from the refund process.

02 Speeds up customer support by automating eligibility checks.

03 Handles large volumes of data through batch processing.

04 Provides clear financial summaries for human review.

Real-World Applications

Customer Support Automation

An agent asks the AI to check if a specific customer is eligible for a refund based on their booking details.

End-of-Month Reporting

A finance user runs a batch calculation to see the total refund amounts processed across hundreds of bookings.

Instant Refund Quotes

A support representative gets an immediate, exact payout amount to give to a customer on a live chat.

Audit Trail Creation

The AI generates a summary of a refund transaction to be saved in a customer's history.

Patterns to Avoid

Manual math for large datasets

AVOID

You try to manually calculate refund totals for five hundred different bookings using a spreadsheet. This takes hours and leads to calculation errors.

✓ INSTEAD

Let your agent handle the heavy lifting by using `batch_calculate_refunds` to process all scenarios at once.

Guessing refund eligibility

AVOID

A support agent tells a customer they are eligible for a refund based on a gut feeling rather than the actual policy. This causes disputes later.

✓ INSTEAD

Always use `verify_refund_eligibility` to confirm a customer meets your specific constraints before promising any money.

Sending raw data to customers

▒ AVOID

You copy and paste a string of raw numbers and penalty codes into a chat window to explain a refund to a client. It looks unprofessional and confusing.

✓ INSTEAD

Use `generate_refund_summary` to create a clean, human-readable breakdown that clearly shows the original price and applied penalties.

The Right Fit

Booking-heavy businesses should connect this MCP to automate their financial logic. If your business doesn't handle cancellations or uses a system that already automates these specific penalty calculations, you don't need this. The deciding factor is whether you want your AI client to act as a precise financial agent instead of just a text generator.

Cancellation Refund Calculator: 4 Specialized Tools

These tools handle everything from checking eligibility to running high-volume financial reports. Your agent uses them to manage the entire refund lifecycle without manual math.

#	TOOL	DESCRIPTION
01	`batch_calculate_refunds`	This tool processes multiple cancellation scenarios at once. It is built for generating high-volume financial reports without manual entry.
02	`calculate_refund_amount`	This tool determines the exact amount of money to return to a customer. It applies specific penalties to the original booking price.
03	`generate_refund_summary`	This tool creates a human-readable breakdown of a financial transaction. It turns raw numbers into clear summaries of original prices and penalties.
04	`verify_refund_eligibility`	This tool checks if a refund is possible under your specific constraints. It verifies if a customer qualifies before any money is moved.

See It in Action

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

U Calculate the refund for a $200 booking with a 20% cancellation penalty.

The refund amount is $160.00, and the penalty amount is $40.00.

U Is a customer eligible for a refund if the booking price is $50 and the penalty is 100%?

No, the customer is not eligible for a refund because the cancellation penalty is 100%.

U Give me a summary for a $1000 booking with a 15% penalty.

The original price was $1000.00, a penalty of $150.00 was applied, and the final amount returned is $850.00.

Frequently Asked Questions

01 **How does this MCP calculate refunds?**

The MCP uses specific tools to apply cancellation penalties to the original booking price to find the exact payout.

02 **Can I process many refunds at once?**

Yes, the batch_calculate_refunds tool is designed to process multiple scenarios at the same time for high-volume reporting.

03 **What clients can I use this with?**

You can use this MCP with any compatible client, including Claude, Cursor, Windsurf, and VS Code.

04 **Does it check if a refund is allowed?**

Yes, the verify_refund_eligibility tool checks if a refund is possible under your specific constraints.

05 **Will it give me a breakdown of the math?**

Yes, the generate_refund_summary tool provides a human-readable breakdown of the original price, the penalty, and the final amount.

06 **How do I check if a customer is eligible for a refund?**

You can use the `verify_refund_eligibility` tool. It checks if the booking price is valid and if the cancellation penalty is less than 100%.

07 **Can I process multiple refunds at once?**

Yes, the `batch_calculate_refunds` tool allows you to process an array of multiple cancellation scenarios in a single request.

08 **What information is needed to calculate a refund?**

To use `calculate_refund_amount`, you need the original booking price and the cancellation percentage penalty.

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 `"cancellation-refund-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

Cancellation Refund 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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DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Cancellation Refund Calculator MCP
Server ID	`01a0d1cd-b66a-705e-9f5b-9cd437091671`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

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