

MCP SERVER

NO CODE

CLOUD HOSTED

# Meal Per Diem Calculator MCP

Automate your travel reimbursement and meal allowance math.

Meal Per Diem Calculator MCP handles the tedious math behind travel expenses. Your AI client uses this to calculate total meal allowances, check trip durations, look up standardized rate tiers, and generate cost summaries for reimbursement reports. It turns messy travel logs into clean, accurate financial data without manual calculation errors.

**A+** Quality Score 100/100

reimbursement

per-diem

travel-expense

allowance

accounting



# The connectivity layer between AI and the world's software.

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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

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## 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

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## 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

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## 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](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Meal Per Diem Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually calculating meal allowances for every business trip. This MCP gives your AI agent the specific tools it needs to handle per diem math accurately. Instead of you typing out rates and durations, your agent uses the data to determine exactly what is owed based on specific travel tiers.

When you are processing expense reports, your agent can verify if the number of travel days makes sense for a business trip. It can pull the correct daily rates for different travel levels and then produce a clear breakdown of costs. This keeps your reimbursement process consistent and prevents overpayment or underpayment. Whether you are managing a single traveler or a whole team, your agent handles the arithmetic and the reporting in one go.

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## Core Capabilities

### 01 — Allowance Calculation

Your agent calculates total meal costs by multiplying rates by trip duration.

### 02 — Rate Tier Lookup

The agent pulls standardized daily rates based on the specific travel tier provided.

### 03 — Trip Duration Validation

Your agent checks if the reported travel days fall within acceptable business bounds.

### 04 — Cost Summarization

The agent builds detailed cost breakdowns for easy expense reporting.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/en/ai-agent-connect/meal-per-diem-calculator](https://vinkius.com/en/ai-agent-connect/meal-per-diem-calculator) — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius-hosted MCP.
- 02 Provide your agent with trip details like duration and travel tier.
- 03 The agent calls the necessary tools to calculate rates and totals.
- 04 Your agent presents the final cost summary or validation result.

Connecting this MCP to your AI client gives your agent immediate access to travel math tools.

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## Built For

This MCP is built for professionals who manage travel budgets and employee reimbursements.

### Accountants

They hand off expense data to the agent to ensure reimbursement accuracy.

### Travel Coordinators

They use the agent to quickly estimate costs for upcoming business trips.

### Operations Managers

They use the agent to validate travel logs against company policy.

# What Changes When You Connect

- 01 Eliminates manual math errors in meal allowance calculations.
- 02 Standardizes rates across different travel tiers.
- 03 Reduces the time spent building expense summary reports.
- 04 Flags unrealistic trip durations automatically.

## Real-World Applications

### Expense Reimbursement

An accountant uses the agent to calculate exactly how much to pay an employee after a business trip.

### Budget Forecasting

A manager asks the agent to estimate total meal costs for a planned 10-day team conference.

### Audit Preparation

The agent generates cost summaries that serve as clean documentation for financial audits.

### Policy Enforcement

The agent checks if a submitted travel duration matches the expected business trip length.

## Patterns to Avoid

### Manual rate entry

❌ AVOID

You tell your agent to just guess the daily rate for a senior executive on a trip to New York.

✓ INSTEAD

Use ``get_rate_tier_info`` to pull the exact standardized daily rate for that specific travel tier instead of guessing.

### Ignoring trip duration errors

❌ AVOID

You process a reimbursement for a 45-day trip that was actually only supposed to be 5 days.

✓ INSTEAD

Run ``validate_travel_days`` first to catch unrealistic trip lengths before you finalize any payments.

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## Vague expense summaries

### ❌ AVOID

You ask your agent to just give you a single number for the total cost of a month-long trip.

### ✓ INSTEAD

Use ``summarize_trip_cost`` to get a detailed breakdown that works for formal expense reporting and audits.

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## The Right Fit

Connect this MCP if you manage travel budgets or process employee reimbursements. Do not connect it if your company uses a different system for calculating per diem rates. The deciding factor is whether you want your AI agent to handle the arithmetic and tier lookups for you.



# Meal Per Diem Calculator Tools for Precise Expense Math

These tools handle the math and logic for calculating, validating, and summarizing meal allowances based on travel tiers.

| #  | TOOL                      | DESCRIPTION                                                                                                                                                      |
|----|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | calculate_total_allowance | This tool calculates the total meal allowance for a specific trip. It handles the multiplication of daily rates by the number of days traveled.                  |
| 02 | get_rate_tier_info        | This tool retrieves the standardized daily rate for a specific travel tier. Use it to ensure your agent is using the correct company or industry standard.       |
| 03 | summarize_trip_cost       | This tool generates a detailed breakdown of meal costs for a trip. It's designed to create clear data for expense reporting.                                     |
| 04 | validate_travel_days      | This tool checks if the number of travel days provided is within reasonable business limits. It helps catch errors in trip duration before you process payments. |

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## See It in Action

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

**U** Calculate the total allowance for a 5-day trip with a daily rate of 50.



The total meal allowance for a 5-day trip at a rate of 50 per day is 250.

**U** What is the daily rate for the Premium Tier?



The daily rate for the Premium Tier is 75.

**U** Provide a cost summary for a 3-day trip at 40 per day.



Daily Rate: 40, Travel Days: 3, Total Allowance: 120.

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## Frequently Asked Questions

### 01 How do I use this MCP with my AI client?

You connect once through the Vinkius interface. After that, any MCP-compatible client like Claude or Cursor can use the tools directly.

### 02 Can this MCP handle different travel tiers?

Yes. It includes a tool to look up standardized rates based on specific travel tiers.

### 03 Does it help with error checking?

Yes. The `validate_travel_days` tool checks if the number of days reported is within reasonable business bounds.

**04 What kind of output does it provide for reports?**

The `summarize_trip_cost` tool provides a detailed breakdown of the trip's meal costs.

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**05 Do I need to host this myself?**

No. Vinkius hosts and manages the MCP for you, so it is ready to use immediately after connection.

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**06 How do I calculate the total allowance for a trip?**

You can use the ``calculate_total_allowance`` tool by providing the daily meal rate and the total number of travel days.

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**07 Can I check if a trip duration is valid?**

Yes, the ``validate_travel_days`` tool checks if the number of days meets standard business travel policies.

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**08 How can I find the rate for a specific travel tier?**

Use the ``get_rate_tier_info`` tool with the specific tier identifier to retrieve the daily rate.

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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://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                                                                                         |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  <b>Claude AI</b>  | Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint                             |
|  <b>Cursor</b>     | Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint                    |
|  <b>VS Code</b>  | Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"meal-per-diem-calculator": {<br/>  "url": "..." }</code> |
|  <b>Windsurf</b> | MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL                                           |
|  <b>ChatGPT</b>  | Settings → Tools & plugins → Add MCP server → Paste endpoint                                               |
|  <b>Gemini</b>   | 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

# Meal Per Diem 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](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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DOCUMENT INFORMATION

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