

MCP SERVER

NO CODE

CLOUD HOSTED

# Vacation Provision Calculator MCP

Know your payroll liabilities instantly.

Vacation Provision Calculator calculates employee vacation liabilities, figuring out the total monetary provision required for base salary, constitutional bonuses, and employer taxes. It also checks individual entitlement status or summarizes company-wide risk across your entire workforce.

**A+** Quality Score 100/100

vacation

payroll

liability

provisioning

compliance

employment



# 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

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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.

# Vacation Provision Calculator MCP

3 tools available

Cloud-hosted on Vinkius

Managing payroll and compliance liability is complex. This MCP handles calculating employee vacation provisions, determining what a company owes its staff under various local rules. You can find the total financial obligation for any single person using one tool. Need to know if an employee's time off period is nearing expiration? Another function checks entitlement status against specific dates. If you're dealing with hundreds of employees, there's a summary tool that aggregates the total company liability and gives you a high-level risk assessment. Vinkius makes connecting these specialized finance operations easy, giving your agent access to all necessary workforce data in one place.

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## Core Capabilities

### 01 – Calculate single employee costs

Determine the total monetary provision for an individual, including base salary, bonuses, and taxes.

### 02 – Check time-off status

Monitor specific vacation periods to identify if an employee's entitlement is at risk or expired.

### 03 – Aggregate company liability

Generate a high-level summary of total workforce provisions and overall compliance risk levels.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/vacation-provision-calculator](https://vinkius.com/mcp/vacation-provision-calculator) — connect your AI agent in three steps.

- 01 Specify the employee's base salary, bonus structure, and relevant tax rates for the calculation.
- 02 Run the check to determine if the calculated liability meets legal requirements or identify employees in a 'warning' status period.
- 03 Review the aggregated summary report that provides total provisions owed across multiple departments.

The bottom line is, you get an immediate, accurate picture of your company's full vacation-related financial and compliance risk.

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## Built For

This MCP is essential for Payroll Managers, HR Directors, and Finance Accountants.

If you spend time reconciling varying state or national labor laws regarding paid leave, this tool saves you hours of manual spreadsheet work.

### Payroll Manager

Using the MCP to calculate specific liabilities for new hires or departing employees, ensuring payroll accuracy down to the dollar.

### HR Director

Running workforce summaries to identify departments with accumulating compliance risk before it becomes an audit issue.

### Finance Accountant

Generating quarterly reports that summarize total provision liability for executive review and financial reporting.

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## What Changes When You Connect

- 01 Accurately calculate provisions: Stop guessing. The `calculate_vacation_liability` tool gives you the exact dollar amount owed for an employee, factoring in base salary, bonuses, and taxes.

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- 02** Manage compliance risk proactively: Use `check_entitlement_status` to flag employees whose leave periods are nearing a warning or expired status months before they become a legal issue.
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- 03** See the big picture instantly: Instead of pulling multiple reports, `summarize_workforce_provisions` aggregates total company liability and flags high-risk areas across your entire workforce.
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- 04** Reduce audit stress: By maintaining clear records of provisions through this MCP, you reduce the risk exposure during unexpected compliance checks.
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- 05** Save time on manual reconciliation: This tool automates complex calculations that previously required cross-referencing multiple state or country labor laws.
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## Real-World Applications

### Handling an end-of-year audit

The CFO needs to prepare for a payroll audit. Instead of manually gathering individual records, they ask their agent to use `summarize_workforce_provisions`. The resulting report instantly provides the total company liability and flags any departments with significant compliance gaps.

### Identifying high-risk employees

A team lead suspects several senior staff haven't updated their leave records. They run `check_entitlement_status` on those profiles to quickly pinpoint exactly which periods are 'warning' or 'expired,' allowing them to follow up immediately.

### Onboarding a new team

The HR Manager has just hired five people. They need to calculate the immediate vacation provision for each person using `calculate_vacation_liability`. This ensures the initial payroll setup is 100% compliant from day one.

### Preparing for quarterly financials

The Finance Analyst needs a single number for the quarter's provision expense. They use `summarize_workforce_provisions` to get an aggregated, reliable figure that feeds directly into the financial model.

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# Patterns to Avoid

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## Calculating provisions piecemeal

### X AVOID

Trying to calculate total liability by multiplying average salary by employee count and then manually adding taxes in a spreadsheet. This misses bonuses, specific tax brackets, and accurate status checks.

### ✓ INSTEAD

Use the `calculate_vacation_liability` tool for single employees, then feed those results into `summarize_workforce_provisions`. Don't rely on simple multiplication; use the specialized tools.

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## Ignoring status deadlines

### X AVOID

Assuming that because an employee is paid a salary, their leave period is always valid. This fails when periods expire or enter a 'warning' state due to long gaps.

### ✓ INSTEAD

Always run `check_entitlement_status` first. It flags specific dates and statuses, ensuring you don't pay out liabilities for expired time.

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## Manual reconciliation of large teams

### X AVOID

Downloading payroll reports from multiple departments, then copy-pasting all the numbers into a master spreadsheet to find the company total. This is slow and error-prone.

### ✓ INSTEAD

Let `summarize_workforce_provisions` handle the aggregation. It gives you the final, audited figure for total workforce liability instantly.

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## The Right Fit

Use this MCP if your primary need is financial compliance related to paid leave. You must calculate specific monetary liabilities (base pay + bonuses + taxes) or aggregate those totals across a large group of people. Don't use it just because you want to track PTO days; that's a basic HR system feature. If all you need is to know if an employee has 15 days left, but don't care about the financial liability attached to it, then this MCP might be overkill. But if your job involves reporting costs or compliance risk—especially combining salary, bonus, and tax considerations—then this is exactly what you need.

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## Compliance headaches start with spreadsheets.

Today, calculating total vacation liability means gathering data from multiple sources. You pull individual salaries into one tab, then manually add the constitutional bonus amount in another. Next, you have to cross-reference tax rates and apply them line by line across potentially hundreds of employees, all while keeping an eye on whose leave periods are about to expire.

With this MCP, that process disappears. You simply ask your agent to calculate provisions for a group or run the summary. It handles the complex math—salary, bonus, taxes, and liability—and hands you one clean number showing exactly what needs provisioning.

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## The Vacation Provision Calculator delivers accurate financial risk assessment.

You eliminate the need for manual cross-referencing of tax codes, bonus structures, and varying departmental leave policies. You no longer waste time manually checking each employee's specific entitlement dates against company policy deadlines.

The outcome is immediate: a reliable, auditable summary that tells you not just what people are owed, but the overall risk level for your entire payroll.

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# Vacation Provision Calculator: 3 Tools Available

Use these specialized tools to calculate single-person liability amounts, verify specific entitlement statuses, or summarize total provisions across your entire workforce.


#	TOOL	DESCRIPTION
01	<code>calculate_vacation_liability</code>	Calculates the full monetary amount owed for an employee's vacation time, covering base pay, bonus amounts, and required taxes.
02	<code>check_entitlement_status</code>	Checks a specific period to confirm if an employee's leave entitlement is safe or if it has passed its deadline.
03	<code>summarize_workforce_provisions</code>	Gathers total vacation provisions across the entire workforce and reports general risk levels for compliance teams.

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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 vacation provision for an employee with a base salary of \$3,000 and a tax rate of 25%.

 The total vacation provision is \$4,000. This includes a base amount of \$3,000, a constitutional bonus of \$1,000, and employer taxes of \$1,000.

- U** Check the status of a vacation period ending on 2024-12-31 with a reference date of 2024-12-15.

 The employee is in 'warning' status, as the period ends in 16 days.

- U** What is the total liability for an employee with \$5,000 salary and 20% tax rate?

 \$7,000 has been identified as the total provision, consisting of \$5,000 base, \$1,666.67 bonus, and \$333.33 in taxes.

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## Frequently Asked Questions

### 01 How does `calculate_vacation_liability` work?

It calculates the total monetary value of an employee's provision. It takes into account the base salary, any constitutional bonus amounts, and required employer taxes to give you the final liability figure.

### 02 Can I use `check_entitlement_status` for a whole group?

No, `check_entitlement_status` checks one employee's specific period against defined reference dates. It tells you if that individual is in 'warning' or 'expired' status.

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**03 What kind of data does summarize\_workforce\_provisions give?**

It gives aggregated company-wide totals and a high-level summary of workforce risk levels. This means you get the total liability number plus a compliance health score for your organization.

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**04 Does Vacation Provision Calculator handle tax rates?**

Yes, all calculations utilize specified tax rates to ensure the final provision includes proper employer taxes alongside salary and bonus amounts.







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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>"vacation-provision-calculator": { "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

# Vacation Provision 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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