

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Cabin Bag Weight Calculator MCP

Keep your carry-on within airline weight limits.

Cabin Bag Weight Calculator helps you manage luggage weight before you get to the airport. Your AI client uses this MCP to sum up item weights, verify if your bag meets specific airline rules, and categorize how heavy your luggage is. It prevents unexpected fees by checking your bag's compliance in seconds.

A+ Quality Score 100/100

luggage

weight

travel-prep

airline

compliance



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.

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.

Cabin Bag Weight Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Packing for a flight shouldn't end with a surprise fee at the check-in counter. This MCP gives your AI agent the ability to handle the math and logic behind your luggage weight. Instead of manually adding up every item, you can just give your agent a list of weights. It will calculate the total, check that the numbers are valid, and tell you if you're over the limit for your specific airline. It also sorts your bag into weight categories so you know exactly how much you're carrying. It's a simple way to make sure your carry-on stays legal and you avoid the hassle of repacking at the gate.

Core Capabilities

01 — Weight Summation

Your agent adds up multiple individual item weights instantly.

02 — Limit Verification

The AI checks your total weight against specific airline constraints.

03 — Weight Classification

Your agent assigns a descriptive category to your total luggage weight.

04 — Data Validation

The tool ensures all weight entries in your list are valid numbers.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/cabin-bag-weight-calculator — connect your AI agent in three steps.

01 Connect the MCP to your preferred AI client like Claude or Cursor.

02 Provide a list of item weights to your agent.

03 The agent uses the tools to calculate and validate the data.

04 Receive a clear answer on total weight and airline compliance.

Connect the MCP to your client and start checking weights immediately.

Built For

This is for anyone trying to avoid overweight baggage fees during travel prep.

Frequent Travelers

They hand off item lists to the AI to ensure carry-on compliance.

Travel Coordinators

They use the tool to manage luggage requirements for groups or teams.

Digital Nomads

They check weight limits to keep their gear within strict airline rules.

What Changes When You Connect

- 01

Avoids unexpected airport fees by checking limits early.
- 02

Eliminates manual math errors when totaling item weights.
- 03

Provides quick weight categorization for better packing awareness.

Real-World Applications

Pre-flight Packing Check

You list your gear weights to see if you're under the airline's limit.

Item List Validation

You ensure your weight data is clean and formatted correctly before calculating totals.

Weight Category Sorting

You check how your bag is classified to prepare for different flight tiers.

Compliance Auditing

You verify if a specific bag weight will pass a 10kg or 7kg restriction.

Patterns to Avoid

Manual math errors

❌ AVOID

You try to add up your gear weights in a chat window and hope the AI doesn't miss a digit.

✓ INSTEAD

Let the agent handle the math by using ``calculate_total_weight`` to get an exact sum.

Ignoring airline limits

❌ AVOID

You assume your bag is fine because it feels light, then get hit with a fee at the gate.

✓ INSTEAD

Run your total through ``check_weight_compliance`` to see if you actually meet the specific airline's rules.

Messy weight data

❌ AVOID

You provide a list of items with text descriptions and mixed units that confuse the agent.

✓ INSTEAD

Use ``validate_item_list`` first to ensure your weight data is clean and ready for calculation.

The Right Fit

Connect this MCP if you frequently pack gear for flights with strict weight limits. If you don't care about baggage fees or carry-on restrictions, you don't need this. The decision comes down to whether you want to risk unexpected airport costs or automate your packing math.



Cabin Bag Weight Calculator Tools

These tools handle the math, validation, and airline compliance checks for your luggage weight.

#	TOOL	DESCRIPTION
01	check_weight_compliance	This tool checks if your total bag weight stays under a specific airline limit.
02	calculate_total_weight	This tool adds up the weight of every item you provide to find the total mass.
03	get_weight_category	This tool sorts your total weight into descriptive tiers like light or heavy.
04	validate_item_list	This tool confirms that your list of items contains only valid weight measurements.

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 total weight of my items: 2.5kg, 1.2kg, and 0.8kg?



The total weight of your items is 4.5kg.

U Is a 12kg bag compliant with a 10kg limit?



No, the bag is not compliant. It exceeds the limit by 2kg.

U What category does a 5kg bag fall into?



A 5kg bag is categorized as Light.

Frequently Asked Questions

01 How do I use this MCP with my AI?

You connect it once through Vinkius to your compatible client like Claude, Cursor, or Windsurf. After that, you just talk to your agent about your luggage.

02 Can this MCP check specific airline rules?

Yes, you can use the compliance tool to see if your bag stays within a specific weight limit you provide.

03 What happens if my weight list is invalid?

The validation tool will check your list to ensure all entries are valid weight measurements before performing calculations.

04 Does this calculate weight for checked bags too?

The tool is designed for cabin bag weight management, but you can use it for any weight limit you specify.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you. You just connect and use it.

06 How do I calculate the total weight of my bag?

You can use the `calculate\_total\_weight` tool by providing an array of the weights for each item in your bag.

07 Can I check if my bag exceeds airline limits?

Yes, the `check\_weight\_compliance` tool compares your total weight against a specific limit and tells you if you are compliant.

08 What happens if I provide invalid weight data?

The `validate\_item\_list` tool can be used to verify that all provided weights are positive numbers before you perform calculations.

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>"cabin-bag-weight-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

Cabin Bag Weight 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Cabin Bag Weight Calculator. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Cabin Bag Weight Calculator MCP
Server ID	01a0d189-dcf2-7146-a3fe-4f4a0b61534d
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/en/ai-agent-connect/cabin-bag-weight-calculator.