

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

Family Trip Seat Count MCP

Plan safe vehicle seating for your entire group.

Family Trip Seat Count MCP handles the math for group travel logistics. It calculates whether your fleet of vehicles can safely hold everyone, specifically accounting for the unique constraints of adults, children, and infants. Your AI client uses this to manage child seat limits and total passenger counts so you don't have to guess if everyone fits.

A+ Quality Score 100/100

family

travel-planning

vehicle-capacity

logistics

safety



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.

Family Trip Seat Count MCP

4 tools available

Cloud-hosted on Vinkius

Planning a trip with a large group often turns into a headache when you realize you have more kids than car seats. This MCP solves that by treating vehicle capacity as a logistics problem. You can give your agent a list of passengers and a list of vehicles, and it will figure out if the math works. It doesn't just count heads; it respects the specific constraints of child seat availability and safety requirements.

Instead of manually checking every SUV and minivan in your driveway, you can let your AI client run the numbers. It checks if your fleet can accommodate the total passenger count and then looks at the specific distribution of adults, children, and infants. This ensures you aren't over-capacity on child seats, which is a common mistake in large group travel. Whether you're coordinating a single van or a fleet of multiple cars, this tool provides the logic needed to ensure every passenger has a safe, designated spot.

Core Capabilities

01 — Fleet Capacity Math

Your agent calculates the total seat count for multiple vehicles at once.

02 — Passenger Distribution

The AI determines the best way to assign people to specific cars.

03 — Safety Validation

The tool checks if the number of children exceeds the available child seat limits.

04 — Constraint Management

It handles the different requirements for adults, children, and infants.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/family-trip-seat-count — connect your AI agent in three steps.

- 01 Connect the MCP to your preferred client like Claude or Cursor via Vinkius.
- 02 Provide your agent with the number of adults, children, and infants.
- 03 List the vehicles you have available and their seat/child seat capacities.
- 04 Ask the agent to calculate capacity, distribute passengers, or validate safety.

Connect the MCP to your AI client and start asking about your travel logistics.

Built For

This is for anyone coordinating group travel where passenger safety and vehicle limits are a concern.

Travel Coordinators

They hand off passenger lists and vehicle specs to the AI to get a seating plan.

Event Organizers

They use the tool to ensure transport logistics for large groups are safe.

Family Trip Planners

They use the agent to verify if their current vehicles can handle all the kids and infants.

What Changes When You Connect

-
- | | |
|----|---|
| 01 | Prevents over-capacity errors by checking child seat limits. |
| 02 | Automates the math for multi-vehicle passenger distribution. |
| 03 | Validates safety constraints for infants and children specifically. |
| 04 | Reduces manual planning time for large group logistics. |
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Real-World Applications

Multi-Car Road Trips

Determine if your two SUVs can safely carry a large extended family.

Fleet Optimization

Find the most efficient way to split a group of adults and kids across several cars.

Child Seat Compliance

Check if a specific vehicle has enough dedicated spots for all the infants and children in your group.

Safety Auditing

Verify that a proposed seating arrangement doesn't violate vehicle safety limits.

Patterns to Avoid

Ignoring child seat limits

❌ AVOID

You tell your agent you have ten people and two SUVs, assuming everyone fits because there are twenty seats total.

✓ INSTEAD

Always run `validate\_safety\_constraints` to ensure you actually have enough dedicated spots for infants and children.

Manual passenger splitting

❌ AVOID

You try to guess which kids go in which car by looking at a spreadsheet and counting seats on paper.

✓ INSTEAD

Let your agent handle the distribution logic by using ``find_optimal_vehicle_distribution`` to maximize space and safety.

Overlooking total fleet capacity

❌ AVOID

You assume a single minivan can handle a large group because it has a high seat count.

✓ INSTEAD

Use ``calculate_total_fleet_capacity`` to get an accurate count of all available seats across your entire fleet first.

The Right Fit

Connect this MCP if you manage group travel involving children or infants where vehicle capacity is a hard constraint. Do not connect it if you are only moving adults in large buses. The decision depends entirely on whether you need to validate specific child seat safety limits.

Family Trip Seat Count Tools for Group Logistics

These tools handle the math for passenger counts, vehicle limits, and child seat safety requirements.

#	TOOL	DESCRIPTION
01	calculate_total_fleet_capacity	This tool calculates the total number of available seats across all vehicles in your fleet.
02	check_vehicle_capacity	Use this to verify if a specific vehicle can handle a set number of passengers.
03	find_optimal_vehicle_distribution	This tool tells your agent how to split passengers across multiple vehicles to maximize space and safety.
04	validate_safety_constraints	This tool checks if your seating plan follows specific safety rules, like child seat limits.

See It in Action

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

U Can two SUVs with 7 seats each and 2 max child seats each carry 4 adults, 2 children, and 2 infants?



Yes, the two SUVs provide a total of 14 seats and 4 child seat capacities, which is sufficient for 8 passengers including the 4 required child seats for the children and infants.

U How should I distribute 2 adults, 3 children, and 1 infant across a Sedan (5 seats, 1 child seat) and a Minivan (7 seats, 3 child seats)?



The optimal distribution is to place the infant and 1 child in the Minivan (using 2 child seats) and the remaining 2 children and 2 adults in the Sedan, or split them to ensure the child seat limit of the Sedan is not exceeded.

U Is it safe to put 3 children and 1 infant in a car that only has 2 max child seats?



No, that configuration is not safe because the total number of children and infants (4) exceeds the maximum child seat capacity of 2.

Frequently Asked Questions

01 How does this MCP handle child safety?

It specifically tracks child seat limits to ensure you don't assign more children or infants to a vehicle than its safety constraints allow.

02 Can I use this for multiple cars at once?

Yes, you can provide details for a whole fleet of vehicles to see if they can collectively carry your group.

03 What AI clients can I use with this?

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

04 Does it account for infants differently than children?

Yes, the tool treats infants and children as part of the group that requires child seat capacity.

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 you connect.

06 How does the tool handle infant seating?

The tool treats infants as passengers requiring dedicated child seats. It uses ``validate_safety_constraints`` to ensure the number of infants and children does not exceed the vehicle's ``maxChildSeats`` limit.

07 Can I plan a trip for multiple vehicles?

Yes, you can use ``calculate_total_fleet_capacity`` to aggregate the capacity of all your vehicles or ``find_optimal_vehicle_distribution`` to get a specific plan for your entire fleet.

08 What happens if a vehicle is unsafe for my group?

The ``check_vehicle_capacity`` tool will return a seat warning or indicate that the configuration is not feasible if safety constraints like child seat limits are violated.

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>"family-trip-seat-count": { "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

Family Trip Seat Count 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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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

LICENSE & USAGE

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