

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 Phone Plan Comparator MCP

Find the cheapest mobile plan for your entire household.

Family Phone Plan Comparator calculates the true cost of multi-line mobile service. It looks past the base sticker price to account for device installments, data overages, and regional taxes. Your AI client uses this data to compare different carriers and find the plan that actually fits your family's usage and budget.

A+ Quality Score 100/100

mobile

telecom

comparison

budgeting

family



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 Phone Plan Comparator MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing which mobile carrier is actually cheaper. Most people only look at the advertised monthly rate, but they forget about the hidden costs like device payments, data overages, and local taxes. This MCP changes how you shop for service by giving your AI agent the math it needs to see the full picture.

You can feed your specific household details into your AI client, and it will run the numbers across multiple providers. It handles the heavy lifting of aggregating service fees and hardware costs to show you the total cost of ownership. Whether you are managing two lines or ten, you can get a clear breakdown of monthly and annual expenses. It's a practical way to stop overpaying for data you don't use or paying for expensive device installments you could avoid.

Core Capabilities

01 — Total Cost Calculation

Your agent calculates the full price including taxes and hardware.

02 — Multi-Plan Comparison

Your agent compares several different carrier options at once.

03 — Usage Based Modeling

Your agent adjusts costs based on specific data usage per line.

04 — Hardware Cost Integration

Your agent adds device installment plans to the monthly service total.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/family-phone-plan-comparator — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Provide your household data like number of lines and data needs to your agent.
- 03 The agent uses the MCP tools to calculate costs and compare plans.
- 04 Review the final cost breakdown provided by your AI client.

Connect your AI client to Vinkius and start running math on mobile plans immediately.

Built For

This is for anyone managing multiple mobile lines who wants to stop overpaying for telecom services.

Household Managers

They hand off family data usage and device costs to the AI to find the best family plan.

Budget Analysts

They use the tool to model long term telecom expenses for personal or small business use.

Tech Enthusiasts

They use the AI to quickly run numbers on new phone and plan combinations.

What Changes When You Connect

- 01 Accounts for regional taxes and service fees automatically.
- 02 Includes device installment costs in the final comparison.
- 03 Models data overages to prevent unexpected monthly bills.

04 Provides annual cost projections for long term planning.

Real-World Applications

Switching Carriers

Compare your current bill against new offers to see if switching actually saves money.

Upgrading Devices

See how adding new phone installments changes your total monthly household budget.

Optimizing Data Usage

Find the sweet spot between limited data plans and unlimited plans based on actual usage.

Annual Budgeting

Get a clear view of what you will spend on mobile service over the next twelve months.

Patterns to Avoid

Ignoring hidden fees

❌ AVOID

You ask your agent to find the cheapest plan based only on the advertised monthly rate.

✓ INSTEAD

Use `calculate_total_account_cost` to include taxes and hardware installments in the final number.

Assuming static data needs

❌ AVOID

You pick a plan based on a single line's usage without considering the whole family.

✓ INSTEAD

Use `calculate_line_costs` to factor in specific data usage for every individual line.

Overlooking device costs

❌ AVOID

You compare two plans but forget that one requires a new phone installment.

✓ INSTEAD

Run `compare_plans` to see how hardware costs change the total cost of ownership.

The Right Fit

Connect this MCP if you manage multiple mobile lines and want to see the actual cost of ownership. Don't connect it if you only have a single line with no hardware installments. The decision depends on whether you need to model complex household variables like taxes and device payments.

Family Phone Plan Comparator 4 Tools

These tools give your agent the ability to calculate exact household costs, compare carrier plans, and model data usage.

#	TOOL	DESCRIPTION
01	calculate_total_account_cost	This tool aggregates service fees, hardware installments, and taxes. It provides a complete look at both monthly and annual expenses for a household.
02	compare_plans	This tool evaluates several different mobile plans against your specific household profile. It identifies which option results in the lowest cost.
03	get_plan_details	This tool pulls the base pricing rules and configuration for a specific mobile plan. It's how your agent learns the fine print of a carrier's offer.
04	calculate_line_costs	This tool determines the monthly service cost for a single line. It factors in the specific data usage and the chosen plan details.

See It in Action

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

U Which plan is cheapest for 4 lines with 10GB usage each and \$20 monthly device costs per line at 7% tax?



The Family Tier plan is the cheapest option, with a total monthly cost of \$145.20.

U Compare the costs for 2 lines using 50GB of data each.



The Unlimited Tier plan is the best fit for high data usage, costing \$95.00 per month.

U What is the total annual cost for a 3-line plan with \$0 device installments and 5% tax?



The total annual cost for this configuration is \$420.00.

Frequently Asked Questions

01 Does this MCP include the cost of new phones?

Yes. It accounts for device installments as part of the total cost of ownership.

02 Can I compare plans from different carriers?

Yes. You can use the comparison tool to evaluate multiple plan options at once.

03 How does it handle taxes?

The tool factors in regional tax percentages to give you a more accurate total.

04 What clients can I use with this MCP?

You can use any MCP-compatible client like Claude, Cursor, Windsurf, or VS Code.

05 Does it account for data overages?

Yes. It calculates costs based on specific data usage per line.

06 How does the tool calculate the total cost?

The tool aggregates base service fees, multi-line discounts, data overage charges, monthly hardware installments, and local taxes to provide a complete monthly and annual total.

07 Can I compare multiple plans at once?

Yes, you can use the `compare\_plans` tool to evaluate a list of plan IDs against your specific household usage and hardware needs.

08 Does this include device costs?

Yes, the tool includes monthly device installments in the total cost of ownership calculation.

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-phone-plan-comparator": { "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 Phone Plan Comparator 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	October 2026
MCP Server	Family Phone Plan Comparator MCP
Server ID	01a0fadb-90fd-7034-9c8f-37fd1593634b
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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