

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

Adaptive Surfing Equipment Recommender MCP

Get precise gear modifications for adaptive surfers.

Adaptive Surfing Equipment Recommender MCP connects your AI agent to specialized logic for designing accessible surf setups. It calculates board buoyancy, suggests assistive tools, and verifies that every equipment modification meets essential safety standards for specific disability categories.

A+ Quality Score 100/100

surfing

adaptive

disability

equipment

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.

Adaptive Surfing Equipment Recommender MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to bridge the gap between general AI knowledge and the highly specialized requirements of adaptive surfing. Instead of guessing which board modifications might work, you can rely on specific logic to determine buoyancy needs, traction requirements, and necessary assistive devices. Whether you are designing a setup for someone with mobility impairments or sensory needs, this MCP provides the technical details required to make the gear functional and safe. It handles the heavy lifting of calculating board adaptations and checking them against safety guidelines, so your agent can focus on providing clear, actionable advice to surfers and instructors.

Core Capabilities

01 — Board Modification Logic

Your agent uses this to figure out how to change a board's shape or volume for better stability.

02 — Safety Verification

The AI checks proposed gear setups against established safety standards for different disabilities.

03 — Assistive Tool Selection

Your agent identifies external devices that work alongside a surfboard to help a surfer.

04 — Profile Based Recommendations

The MCP generates specific equipment lists based on a user's physical profile and goals.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/adaptive-surfing-equipment-recommender — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Provide the user's physical profile or specific disability details to your AI agent.
- 03 The agent calls the necessary tools to calculate adaptations or check safety.
- 04 Your agent delivers specific equipment lists and modification advice.

You connect the MCP to your client and start asking technical questions about adaptive gear.

Built For

This MCP is built for professionals working in adaptive sports and accessibility design.

Adaptive Surf Instructors

They use the MCP to quickly suggest gear changes for students with different physical needs.

Accessibility Consultants

They hand off technical equipment calculations to the AI to verify safety and functionality.

Equipment Designers

They use the logic to inform how specific board adaptations should be built.

What Changes When You Connect

- 01 Reduces guesswork in calculating board buoyancy and rail width.
- 02 Ensures gear setups meet safety guidelines for various disability categories.

-
- 03** Provides specific lists of assistive devices to supplement standard surfboards.
-
- 04** Connects your AI client to specialized adaptive surfing expertise.
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Real-World Applications

Custom Board Design

An instructor uses the MCP to determine how much volume to add to a board for a student with low core stability.

Student Onboarding

An adaptive coach uses the profile-based recommendations to build a gear list for a new surfer.

Safety Auditing

A designer checks a new equipment setup against safety compliance tools before recommending it.

Assistive Gear Planning

A user identifies necessary flotation vests or high-visibility markers for surfers with sensory impairments.

4 Tools Available

#	TOOL	DESCRIPTION
01	verify_safety_compliance	This tool checks if a proposed equipment setup meets standard adaptive surfing safety guidelines.
02	calculate_board_adaptations	This tool determines the specific physical changes needed for a surfboard to accommodate a user's needs.
03	identify_assistive_devices	This tool suggests external tools that can supplement a surfboard for better accessibility.
04	get_equipment_recommendations	This tool provides a list of recommended equipment modifications based on a user's specific profile.

See It in Action

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

U I have a mobility impairment and want to achieve independent performance. What equipment do I need?



For independent performance with mobility impairments, we recommend increased board volume for stability, high-traction deck pads, and specialized mounting systems for seating.

U What board adaptations are needed for someone with low core stability?



To compensate for low core stability, you should use a board with increased volume and widened rails to maximize buoyancy and equilibrium.

U Suggest some assistive devices for a surfer with sensory impairments aiming for assisted entry.



For assisted entry with sensory impairments, we suggest using specialized flotation vests and high-visibility markers on the board.

Frequently Asked Questions

01 What can this MCP do for adaptive surfers?

It provides technical recommendations for surfboard modifications, identifies assistive devices, and verifies that gear setups meet safety standards.

02 How does it handle safety?

The MCP includes a tool specifically designed to check if proposed equipment setups comply with adaptive surfing safety guidelines.

03 Can it help with surfboard buoyancy?

Yes, it can calculate specific board adaptations, such as increasing volume or widening rails, to help with stability.

04 What AI clients can I use with this MCP?

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

05 Does it suggest gear beyond just the surfboard?

Yes, it can identify external assistive devices like flotation vests or high-visibility markers to supplement the board.

06 How does the tool determine equipment needs?

The server analyzes the user's disability category, physical ability profile, and surfing goals to generate specific recommendations via ``get_equipment_recommendations``.

07 Can I check if my gear is safe?

Yes, you can use the ``verify_safety_compliance`` tool to check if a proposed set of modifications meets safety guidelines for a specific disability category.

08 What kind of board changes can be calculated?

The ``calculate_board_adaptations`` tool provides specific details on volume adjustments, traction types, and structural stability features.

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>"adaptive-surfing-equipment-recommender": { "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

Adaptive Surfing Equipment Recommender 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

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Server ID	01a0a4a0-2009-7386-b0f8-e20e023f4ac2
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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