

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

Assistive Equipment Selection Brief MCP

Match the right assistive technology to specific user needs.

Assistive Equipment Selection Brief MCP helps you evaluate, test, and acquire assistive technology. It connects your AI client to specialized tools that analyze equipment fit, draft vendor questions, structure real-world trials, and map out the logistics for purchasing or leasing mobility aids and other essential devices.

A+ Quality Score 100/100

assistive-tech

equipment-selection

user-profile

trial-planning

acquisition



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.

Assistive Equipment Selection Brief MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to take the guesswork out of selecting assistive technology. Instead of manually checking specs against a user's home layout or physical requirements, you let your AI client handle the heavy lifting. You can run an `analyze_fit` operation to see if a specific wheelchair or walker actually works within a user's specific doorway widths or mobility constraints. Once you find a candidate, you can `generate_vendor_inquiry` to get the technical answers you need before buying. The MCP also helps you move from theory to reality by using `create_trial_plan` to set up a structured testing period in the user's actual environment. When you are ready to move forward, `plan_acquisition` handles the logistical steps for the final purchase or lease. It turns a complex clinical decision into a structured, data-driven process.

Core Capabilities

01 — Constraint Matching

Your agent compares equipment specs against user profiles and home dimensions.

02 — Technical Inquiry Generation

The AI drafts specific questions to send to manufacturers to confirm technical details.

03 — Trial Structuring

Your agent creates checklists and schedules for real-world equipment testing.

04 — Logistical Planning

The AI maps out the steps required to finalize a lease or purchase.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/assistive-equipment-selection-brief — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius hosted MCP.
- 02 Provide user profiles and equipment specs to your agent.
- 03 Run the `analyze_fit` tool to check for compatibility.
- 04 Generate a trial plan or vendor inquiry as needed.
- 05 Follow the acquisition plan to finalize the equipment choice.

Connect your preferred AI client to Vinkius to start using these tools immediately.

Built For

This MCP is built for professionals managing assistive technology for patients or clients.

Occupational Therapists

Hand off user environmental data to the AI to check equipment compatibility.

Care Coordinators

Use the tool to manage the logistics of equipment acquisition and trials.

Assistive Technology Specialists

Delegate the creation of vendor inquiries and trial schedules to your agent.

What Changes When You Connect

- 01 Reduces errors in equipment selection by checking against environmental constraints.

-
- | | |
|----|--|
| 02 | Speeds up vendor communication with pre-written technical questions. |
| 03 | Standardizes the testing process through structured trial plans. |
| 04 | Organizes the transition from testing to final acquisition. |
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Real-World Applications

Home Accessibility Checks

Verify if a new mobility device can navigate a specific user's doorways and living spaces.

Vendor Verification

Confirm technical specifications like battery life or frame dimensions with manufacturers.

Real-World Testing

Set up a 7-day trial period to see how a device performs on different floor surfaces.

Procurement Management

Outline the necessary steps to lease or buy equipment for a client.

Patterns to Avoid

Ignoring environmental constraints

❌ AVOID

You pick a high-end motorized wheelchair based solely on its features without checking if it fits through the client's narrow hallway.

✓ INSTEAD

Run an `analyze_fit` operation first to ensure the device actually works within the user's specific doorway widths and home layout.

Vague vendor communication

❌ AVOID

You send a generic email to a manufacturer asking if their equipment is 'good' for a specific user.

✓ INSTEAD

Use `generate_vendor_inquiry` to produce a list of specific, technical questions that clear up compatibility doubts immediately.

Unstructured equipment testing

❌ AVOID

You drop a new walker at a client's house and hope they can use it effectively for a few days.

✓ INSTEAD

Use `create_trial_plan` to build a structured schedule and checklist so you can measure performance in a real-world setting.

The Right Fit

Occupational therapists and care coordinators should connect this MCP if they manage complex equipment needs for clients. It isn't for casual users or those selecting basic consumer goods. The decision rests on whether you need to validate technical specs against specific physical and environmental constraints.



4 Specialized Tools for Assistive Equipment Selection

These tools handle the technical math, vendor outreach, and logistical planning required to move from equipment specs to real-world use.

#	TOOL	DESCRIPTION
01	analyze_fit	This tool checks if specific equipment meets a user's defined criteria and environmental constraints.
02	create_trial_plan	This tool builds a structured schedule and checklist for testing equipment in a real-world setting.
03	generate_vendor_inquiry	This tool creates a targeted list of questions for vendors to clear up technical ambiguities or confirm compatibility.
04	plan_acquisition	This tool outlines the logistical steps needed to complete a purchase or lease for the equipment.

See It in Action

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

U Check if this wheelchair fits my needs.



The wheelchair meets your requirement for portability and fits through your 30-inch doorway.

U What questions should I ask the vendor about the mobility aid?



You should ask: 'Will the battery life support 12 hours of continuous use?' and 'Is the frame compatible with standard charging docks?'

U Create a plan to test the new walker.



The trial will last 7 days. You should test the walker during morning walks and while navigating kitchen surfaces to ensure stability.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect your Claude client to Vinkius once, and the tools become available for your agent to use in your existing chats.

02 Can this MCP help with wheelchair selection?

Yes, you can use the `analyze_fit` tool to see if a wheelchair meets specific user needs and fits through their doorways.

03 Does it help with buying equipment?

Yes, the `plan_acquisition` tool outlines the logistical steps required to purchase or lease the equipment.

04 What kind of testing plans does it create?

The `create_trial_plan` tool generates a structured schedule and checklist for testing equipment in a user's actual environment.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use as soon as you connect.

06 How does the tool evaluate equipment suitability?

The `'analyze_fit'` tool compares equipment specifications against user-provided daily activities, environmental dimensions, and feature requirements.

07 Can I plan the purchase of the equipment?

Yes, the `'plan_acquisition'` tool generates a logical sequence of steps for purchasing or leasing equipment within your budget.

08 How are trial periods managed?

The `'create_trial_plan'` tool uses your specific trial terms and daily activities to create a structured testing schedule and checklist.

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>"assistive-equipment-selection-brief": { "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

Assistive Equipment Selection Brief 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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Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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