

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

Door Clearance Checker MCP

Stop guessing if your furniture will fit through the door.

Door Clearance Checker MCP lets your AI client handle the math for furniture deliveries and spatial planning. It calculates usable doorway widths, compares object dimensions against openings, and checks your inventory to ensure every piece of furniture can actually make it into the room.

A+ Quality Score 100/100

furniture

dimensions

clearance

doorway

measurement



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.

Door Clearance Checker MCP

4 tools available

Cloud-hosted on Vinkius

Moving furniture is a headache when you realize a sofa is two inches too wide for the hallway. This MCP solves that problem by giving your AI agent the ability to perform precise spatial checks. You can use it to verify if a specific item in your catalog will clear a doorway, even when accounting for a safety buffer. It handles the heavy lifting of comparing dimensions and checking if your measurements actually make sense. Instead of manual calculations, you just tell your agent what you're trying to move, and it tells you if it's physically possible. It's a practical tool for anyone managing furniture inventory or planning room layouts where clearance is a bottleneck.

Core Capabilities

01 — Spatial Verification

Your agent compares furniture dimensions against doorway widths to confirm fit.

03 — Measurement Validation

The tool flags measurements that are physically impossible to prevent errors.

02 — Inventory Browsing

The AI pulls specific furniture items from your list based on category.

04 — Clearance Calculation

Your agent finds the actual usable width of any given opening.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/door-clearance-checker — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius-hosted MCP.
- 02 Provide the dimensions of the furniture or the doorway.
- 03 The agent uses the tools to compare the data.
- 04 The agent reports whether the item fits or if the measurements are invalid.

Connect the MCP to your client and start asking questions about dimensions.

Built For

This MCP is built for professionals managing physical goods and spatial constraints.

Logistics Coordinators

They hand off dimension verification to the AI to prevent failed deliveries.

Interior Designers

They use the agent to check if new furniture pieces will fit into existing rooms.

Furniture Retailers

They use the tool to answer customer questions about item clearance.

What Changes When You Connect

- 01** Prevents delivery failures by catching tight fits before they happen.
- 02** Eliminates manual dimension math for your AI agent.
- 03** Reduces errors by validating that all measurements are realistic.

Real-World Applications

Delivery Planning

Check if a large item will clear the customer's front door before dispatching a truck.

Room Layout Design

Verify that a new dining set can actually reach the intended dining room.

Inventory Management

Filter through furniture categories to find specific items for a project.

Error Checking

Ensure that entered dimensions for doors or furniture aren't physically impossible.

Patterns to Avoid

Ignoring physical reality

❌ AVOID

You tell your agent a sofa is 50 inches wide and the door is 40 inches wide, then ask if it fits.

✓ INSTEAD

Use ``validate_dimensions`` first to catch impossible measurements before running a fit check.

Manual dimension math

❌ AVOID

You spend ten minutes subtracting door frame widths from total openings to find the usable space.

✓ INSTEAD

Just call ``get_door_clearance`` to get the actual usable width immediately.

Vague furniture searches

❌ AVOID

You ask your agent to find any piece of furniture that might fit in a hallway.

✓ INSTEAD

Use `'list_furniture_by_category'` to narrow down the specific types of items you are moving.

The Right Fit

Connect this MCP if you manage physical inventory, design room layouts, or coordinate furniture deliveries. Do not connect it if your work is purely digital or lacks physical spatial constraints. The decision rests on whether a two-inch error in a hallway could ruin a delivery.

Door Clearance Checker: 4 Specialized Spatial Tools

These tools let your agent calculate doorway widths, browse furniture catalogs, and verify that all physical dimensions are realistic.

#	TOOL	DESCRIPTION
01	check_furniture_fit	Determines if a specific piece of furniture can pass through a specified doorway.
02	get_door_clearance	Retrieves the usable width of a specific doorway.
03	list_furniture_by_category	Retrieves a list of furniture items filtered by their type.
04	validate_dimensions	Ensures that all provided measurements for an object or opening are physically possible.

See It in Action

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

U Will the sofa with ID 'sofa-123' fit through door 'door-456'?



Yes, the sofa will fit through the door with a remaining margin of 5cm.

U What is the usable width of door 'main-entrance'?



The usable width for the main entrance is 90cm.

U List all chairs available in the catalog.



The available chairs are: Dining Chair (ID: chair-01), Office Chair (ID: chair-02), and Lounge Chair (ID: chair-03).

Frequently Asked Questions

01 How does the MCP check if furniture fits?

The agent uses the `check_furniture_fit` tool to compare the dimensions of an object against the usable width of a doorway.

02 Can I use this with Claude or Cursor?

Yes, you can connect this MCP to any MCP-compatible client like Claude, Cursor, or Windsurf.

03 Does it account for safety margins?

Yes, the `check_furniture_fit` tool allows for an optional safety buffer during the comparison.

04 What happens if I enter impossible measurements?

The `validate_dimensions` tool will check the measurements and ensure they are physically possible.

05 Can I see my furniture list through the AI?

Yes, you can use the `list_furniture_by_category` tool to browse your inventory by type.

06 How does the tool calculate if a piece of furniture fits?

The tool uses ``check_furniture_fit`` to compare the smallest dimension of the furniture against the usable width provided by ``get_door_clearance``, optionally subtracting a safety buffer.

07 Can I include a safety margin in the calculation?

Yes, when using ``check_furniture_fit``, you can provide a ``safetyBuffer`` value to ensure a comfortable fit.

08 What happens if the door ID is incorrect?

If an invalid ``doorId`` is provided to ``get_door_clearance`` or ``check_furniture_fit``, the tool will return an error.

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>"door-clearance-checker": { "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

Door Clearance Checker 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 Door Clearance Checker. 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	Door Clearance Checker MCP
Server ID	01a0ca1b-6721-7266-9a24-d51cfd2b031f
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/door-clearance-checker.