

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

Athletic Taping Protocol MCP

Get exact taping plans for joint stabilization and injury support.

Athletic Taping Protocol MCP provides technical taping configurations for joint injuries. It calculates specific tape widths, strip counts, and anchor points based on the type of injury, the joint being treated, and the intensity of the activity. Your AI client uses these calculations to build reliable stabilization protocols for athletes.

A+ Quality Score 100/100

athletic-taping

injury-support

joint-stabilization

sports-medicine

taping-protocol



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.

Athletic Taping Protocol MCP

2 tools available

Cloud-hosted on Vinkius

You can use this MCP to generate technical taping plans for various joint injuries. Instead of guessing how much coverage a joint needs, you provide the injury type and activity level, and your agent calculates the exact parameters. It determines the necessary tape width, how many strips to apply, and where to set anchor points to ensure the joint stays stable during movement. If you need to know the specific coverage for a certain area, the MCP handles the math for strip density. It is built for situations where precise stabilization is required, such as managing ankle sprains or wrist strains during high-intensity sports. Your AI client handles the technical math so you can focus on the application.

Core Capabilities

01 — Protocol Generation

Your agent creates complete taping instructions including dimensions and patterns.

02 — Density Calculation

The AI calculates the necessary number of tape strips for specific coverage areas.

03 — Parameter Determination

The MCP identifies required tape widths and anchor points for joint stability.

04 — Activity Scaling

Your agent adjusts taping intensity based on the user's activity level.

05 — Injury-Specific Planning

The tool tailors configurations to the specific joint and injury type provided.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/athletic-taping-protocol — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius hosted MCP.
- 02 Provide the injury type, joint location, and activity intensity to your agent.
- 03 The agent uses the MCP tools to calculate strip density or full protocols.
- 04 Receive a detailed taping plan with widths, counts, and anchor points.

Connect your client to Vinkius and start generating protocols immediately.

Built For

This MCP is designed for professionals in sports medicine and physical therapy who need quick, technical taping calculations.

Athletic Trainers

They hand off injury details to the AI to get immediate taping protocols for athletes.

Physical Therapists

They use the tool to determine strip density and coverage for patient stabilization.

Sports Medicine Clinicians

They rely on the MCP to calculate anchor points and tape widths for specific joint injuries.

What Changes When You Connect

- 01 Calculates exact strip counts to prevent insufficient coverage.
- 02 Provides specific anchor points for joint stabilization.
- 03 Adjusts tape parameters based on activity intensity.

04 Generates complete application patterns for various injuries.

Real-World Applications

High-Intensity Sports Support

An athlete with an ankle sprain needs a heavy-duty taping plan for a soccer match.

Knee Stabilization

Calculating the necessary strip density for a knee injury during high-intensity movement.

Moderate Injury Management

A clinician needs a lighter taping protocol for a wrist strain requiring moderate support.

Standardized Protocol Creation

Generating consistent taping dimensions and patterns for recurring joint injuries.

Patterns to Avoid

Guessing coverage requirements

❌ AVOID

You tell your agent to just 'tape an ankle' without specifying the injury type or activity level.

✓ INSTEAD

Provide the specific injury and intensity level so you can use ``calculate_strip_density`` to get the exact number of strips needed.

Manual dimension calculation

❌ AVOID

You try to manually figure out where anchor points should go for a wrist strain.

✓ INSTEAD

Let the MCP handle the geometry by using ``plan_taping_application`` to get a full protocol with specific dimensions.

The Right Fit

Connect this MCP if you are a sports medicine professional who needs precise, repeatable taping plans for athletes. Do not connect it if you are looking for general medical advice or non-technical

taping tips. The decision depends on whether you need calculated strip density and specific anchor points for stabilization.

Athletic Taping Protocol MCP Tools

These tools handle the technical math for joint stabilization. Your agent uses them to calculate strip density and generate complete application patterns.

#	TOOL	DESCRIPTION
01	calculate_strip_density	This tool determines the exact number of tape strips required to cover a target area. It ensures you have enough coverage for the specific stabilization needs of the injury.
02	plan_taping_application	This tool generates a full taping protocol. It provides the specific dimensions and application patterns needed for a complete stabilization plan.

See It in Action

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

U I have an ankle sprain and I'm playing a high-intensity soccer match. What is the taping plan?



For a high-intensity ankle sprain, use 5 strips of 50mm tape with heavy overlap and 3 anchor points on the malleoli to ensure maximum stability.

U How many strips of tape do I need for a wrist strain with moderate support?



For a wrist strain requiring moderate support, 3 strips with a 20% overlap are recommended.

U Calculate the strip density for a knee injury with high activity intensity.



For high activity intensity on the knee, a strip count of 6 with a 35% overlap is required for effective coverage.

Frequently Asked Questions

01 What can this MCP calculate for me?

It calculates tape width, strip count, anchor points, and complete taping protocols based on injury data.

02 How does activity intensity affect the taping plan?

The MCP adjusts the strip count and overlap percentages based on whether the activity is moderate or high intensity.

03 Can I use this with any AI client?

Yes, you can use this with any MCP-compatible client like Claude, Cursor, or Windsurf once connected via Vinkius.

04 Does this MCP provide specific tape widths?

Yes, the generated protocols include specific tape dimensions and application patterns.

05 How do I get a full taping protocol?

You can ask your agent to use the `plan_taping_application` tool to generate a complete set of instructions.

06 What kind of injuries can this tool help with?

The tool is designed to provide taping protocols for common injuries like sprains and strains in joints such as the ankle, knee, wrist, and shoulder.

07 How does activity level affect the taping plan?

Higher activity levels result in more robust support, requiring more overlapping strips and stronger anchor points to maintain integrity during movement.

08 Can I get a full application guide?

Yes, by using the `'plan_taping_application'` tool, you receive a complete protocol including dimensions and application patterns.

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>"athletic-taping-protocol": { "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

Athletic Taping Protocol 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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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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