

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

# Accessible Station Navigation Plan MCP

Build reliable, step-by-step transit itineraries for mobility needs.

Accessible Station Navigation Plan MCP helps you map out transit journeys that account for specific mobility requirements. It handles everything from verifying station compatibility to calculating necessary time buffers and finding alternative routes when elevators or entrances are out of service.

**A+** Quality Score 100/100

transit

accessibility

navigation

mobility

planning



# The connectivity layer between AI and the world's software.

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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

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## 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

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## 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

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## 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](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Accessible Station Navigation Plan MCP

4 tools available

Cloud-hosted on Vinkius

Navigating transit hubs can be unpredictable when you rely on specific accessibility features. This MCP gives your AI client the data it needs to build precise, reliable travel plans. Instead of guessing if an elevator is available or how much extra time a transfer will take, you can get specific answers based on actual station infrastructure.

You can use it to check if a station's layout supports your specific wheelchair or mobility device before you even leave the house. If a primary route fails, the MCP finds a secondary path so you aren't stuck. It also calculates the extra time you'll need to account for based on the complexity of the station and your equipment. It's about removing the guesswork from transit planning and ensuring you have a clear, actionable path from start to finish.

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## Core Capabilities

### 01 — Route Verification

The AI checks if a station's layout matches your specific mobility equipment.

### 02 — Contingency Planning

Your agent identifies alternative accessible paths when primary routes are blocked.

### 03 — Time Buffer Calculation

The MCP calculates necessary safety margins based on station complexity.

### 04 — Detailed Itineraries

Your AI client generates step-by-step directions and arrival approaches.

### 05 — Assistance Messaging

The tool produces specific text you can use to request help from station staff.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/en/ai-agent-connect/accessible-station-navigation-plan](https://vinkius.com/en/ai-agent-connect/accessible-station-navigation-plan) — connect your AI agent in three steps.

- 01

Connect your preferred MCP-compatible client like Claude or Cursor to Vinkius.
- 02

Provide your mobility details and destination to your AI agent.
- 03

The agent uses the MCP to check station access and calculate time buffers.
- 04

Receive a complete, step-by-step navigation plan with contingency options.

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

## Built For

This MCP is built for anyone needing precise, reliable transit information that accounts for mobility constraints.

### Mobility Planners

They use the tool to build accurate travel itineraries for clients with specific needs.

### Transit Coordinators

They use the data to verify station accessibility and plan contingency routes.

### Accessibility Advocates

They use the tool to validate whether station infrastructure meets user requirements.

## What Changes When You Connect

- 01

Reduces travel uncertainty by verifying station compatibility before arrival.
- 02

Provides backup routes when elevators or primary entrances are out of service.

- 03

Accounts for real-world delays by calculating equipment-specific time buffers.
- 04

Generates clear, actionable directions for navigating complex transit hubs.

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# Real-World Applications

## Broken Elevator Recovery

When a primary elevator is down, the MCP finds a secondary accessible path to the platform.

## Complex Transfer Planning

Calculate exactly how much extra time to add when navigating stations with multiple transfers.

## Pre-Trip Validation

Check if a specific station can handle your motorized wheelchair before you start your journey.

## Assistance Preparation

Get ready-to-use messages to send to station staff to request help at specific platforms.

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# Patterns to Avoid

## General accessibility guessing

### ❌ AVOID

Asking your agent if a station is 'accessible' without specifying your equipment type.

### ✓ INSTEAD

Provide specific details about your mobility device to get an accurate answer using ``validate_station_access``.

## Ignoring station complexity

### ❌ AVOID

Assuming a transfer will take the same amount of time as a standard walking route.

### ✓ INSTEAD

Use ``calculate_buffer_impact`` to determine the actual time needed based on your specific equipment and the station layout.

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## Static route planning

### ❌ AVOID

Relying on a single path and getting stuck when an elevator is out of service.

### ✓ INSTEAD

Always run ``get_contingency_route`` to identify a secondary path before you head out.

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## The Right Fit

Connect this MCP if you need to build reliable, equipment-specific transit plans for users with mobility needs. Do not connect it if you are only looking for general transit schedules or standard walking directions. The decision depends on whether your users require verified station infrastructure data to travel safely.

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# Accessible Station Navigation Tools

These tools provide the specific station data and routing logic your agent needs to plan trips for users with mobility constraints.

| #  | TOOL                        | DESCRIPTION                                                                                                                             |
|----|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 01 | calculate_buffer_impact     | Determines the extra time you need to add to your trip based on your specific mobility equipment and how complex the station layout is. |
| 02 | get_contingency_route       | Finds a secondary accessible path if your primary entrance or elevator is unavailable.                                                  |
| 03 | get_station_navigation_plan | Creates a full transit plan including your approach, step-by-step directions, and specific messaging for requesting assistance.         |
| 04 | validate_station_access     | Checks if a station's configuration can actually support your specific equipment and mobility needs.                                    |

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## See It in Action

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

**U** I need a navigation plan for Central Station. I use a motorized wheelchair and need to arrive by 09:00. Please include a 10-minute safety margin.



Your arrival approach involves entering via the North Entrance. Step 1: Use the elevator at North Entrance. Step 2: Follow tactile paving to Platform 2. Your assistance request text: 'I am using a motorized wheelchair and require assistance at Platform 2 via the station radio channel.'

**U** The main elevator at West Station is broken. Can you find me another way to the platform?



The alternate entrance is the East Entrance. Follow the path through the South Concourse to reach the platform via the service elevator.

**U** How much extra time should I add for a complex station with multiple transfers using a manual wheelchair?



Based on a complexity score of 7 and ManualMobility equipment, a recommended buffer of 15 minutes is suggested.

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## Frequently Asked Questions

### 01 How does this MCP help with broken elevators?

It uses the `get_contingency_route` tool to find an alternative accessible path if your primary route is blocked.

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**02 Can I use this with my specific wheelchair model?**

Yes, the `validate_station_access` tool checks if a station's configuration supports your specific equipment and needs.

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**03 How does it calculate extra travel time?**

The `calculate_buffer_impact` tool looks at your equipment and the complexity of the station to suggest a necessary safety margin.

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**04 What kind of clients can I use this with?**

You can use this with any MCP-compatible client, including Claude, Cursor, Windsurf, and VS Code.

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**05 Does it provide instructions for requesting help?**

Yes, the navigation plan includes specific assistance messaging you can use to communicate with station staff.

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**06 How does the navigation plan account for my specific equipment?**

The `'get_station_navigation_plan'` tool uses your specific equipment details to ensure every step of the route, including elevator clearances and path widths, meets your requirements.

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**07 What happens if an elevator is out of service?**

You can use the `'get_contingency_route'` tool to identify the next most viable accessible entrance or elevator that bypasses the failed access point.

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**08 Can I check if a station is safe for my mobility aid before I travel?**

Yes, the `'validate_station_access'` tool verifies if a station configuration can support your specific equipment and assistance needs.

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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://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>"accessible-station-navigation-plan": { "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

## Accessible Station Navigation Plan is live on Vinkius Cloud.

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Get your connection token, paste it into your AI agent, and  
start building. No SDK. No deployment. Just results.

**Start at [cloud.vinkius.com](https://cloud.vinkius.com) →**

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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