

MCP SERVER

NO CODE

CLOUD HOSTED

# Lyko MCP

## Master European Transit Planning & Tracking

Lyko: Connects any AI agent to Europe's public transit network for real-time travel data and planning. Plan multi-modal journeys combining trains, buses, subways, trams, ferries, and bikes across 300+ European operators. Check live departures, track arrivals, and monitor service disruptions instantly.

**A+** Quality Score 100/100

public-transport

intermodal-travel

transit-data

journey-planning

mobility-api

multimodal-transport



# The infrastructure that powers AI agents in the real world.



Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

# Your AI Connections Run Through Vinkius Cloud

The world's largest  
managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

# Lyko MCP

12 tools available

Cloud-hosted on Vinkius

This MCP gives your AI client full control over European public transit information. You can plan complex door-to-door trips that combine multiple transport modes, like taking a train, walking to a tram stop, and finishing with a bike rental. Beyond just planning, you get real-time visibility: check upcoming departures at any station, track incoming services for passenger pickups, or find the nearest transit stops using precise coordinates. If your job involves anything from coordinating field logistics to building travel apps, this MCP is essential. You can even research entire networks by listing available operators across different countries, checking service disruptions like strikes or planned works, and accessing raw GTFS feeds for deep analysis. Getting all this data used to mean logging into dozens of operator websites. Now, through Vinkius, your AI agent handles the complexity; you just ask it where you need to go.

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## Core Capabilities

### 01 — Plan intermodal journeys

Calculates complete travel itineraries combining buses, trains, subways, trams, ferries, bike-sharing, and walking directions between two points.

### 03 — Discover network components

Finds all transit stops near a given location or searches for specific stations by name or address within the European network.

### 05 — Book and reserve services

Allows the AI to complete a journey by booking tickets for trains, buses, or reserving mobility services like bike rentals through the Lyko Book platform.

### 02 — Monitor real-time departures and arrivals

Provides current departure and arrival information for any stop across Europe, including scheduled times, estimated delays, and platform details.

### 04 — Assess service health

Checks live status updates across major operators, detailing any planned closures, unexpected delays, or strikes affecting routes.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/lyko](https://vinkius.com/mcp/lyko) — connect your AI agent in three steps.

- 01** Subscribe to this MCP and input your unique Lyko API key into your agent's configuration.
- 02** Your AI client sends a natural language prompt detailing the required journey, location, or data query (e.g., 'What are the departures from Berlin Hauptbahnhof?').
- 03** This MCP executes the necessary tool calls, returns structured JSON data, and delivers a clear, conversational answer to your agent.

The bottom line is you get immediate access to real-time European transit intelligence without building complex integration layers yourself.

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## Built For

Travel professionals and data analysts who rely on accurate, up-to-the-minute mobility information. If your job requires coordinating movement across multiple cities or interpreting large datasets of public transit schedules, this MCP saves hours of manual research.

### Logistics Coordinator

Uses the MCP to plan complex multi-city transfers and verify that all necessary mobility services are bookable before deployment.

### Travel App Developer

Integrates departure, arrival, and network status tools to build reliable, real-time transit information into consumer applications.

### Urban Planner / Analyst

Accesses raw GTFS feeds and operator directories to research service coverage gaps or analyze historical route patterns across multiple European regions.

## What Changes When You Connect

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- 01 You stop guessing about travel times. Using `get_departures` and `get_arrivals`, your agent gives you real-time ETAs, letting you track when the next train or bus actually runs.

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  - 02 No more clicking through 30 different operator sites. The MCP groups all services—trains, trams, buses, ferries—into one workflow for planning via `plan_trip`.

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  - 03 You can quickly find service gaps and risks by calling `get_network_status`. This alerts you immediately if there are strikes or planned works before you commit to a journey.

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  - 04 Need to build a map? Use `get_nearby_stops` with just coordinates. Your agent instantly finds all available transit options within walking distance of your current location.

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  - 05 Booking is handled end-to-end. After planning the route, simply invoke `book_trip` to complete reservations for tickets or car rentals without leaving your chat interface.
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## Real-World Applications

### Coordinating a cross-country field visit

A logistics manager needs to get from Paris to Milan. They ask their agent to 'Plan an intermodal trip.' The MCP uses `plan_trip` and returns not just the fastest route, but also the transfer details, estimated cost, and total duration.

### Diagnosing a transit delay

A user reports that their connecting train is late. Instead of checking multiple sources, they ask to 'Check for service disruptions on the regional rail.' The MCP uses `get_network_status` and immediately identifies if the issue is due to known track work or an unexpected incident.

### Building a local point-of-interest guide

A developer needs to know all nearby transit options for a new development site. They ask the agent to 'List all stops within 500 meters.' The MCP uses ``get_nearby_stops`` and provides immediate coordinates, served lines, and operator names.

### Researching market coverage

An urban planner wants to understand the full scope of transport in a region. They ask the agent for 'All public transit operators in Germany.' The MCP uses ``get_operators`` and returns a list with their service modes, allowing them to map out potential gaps.

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## Patterns to Avoid

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### Assuming static data is enough

#### ✗ AVOID

The user only asks for 'the timetable for Line X.' They get outdated information because the agent couldn't distinguish between scheduled and live data.

#### ✓ INSTEAD

To get the most accurate picture, always compare ``get_line_info`` (for general service hours) with ``get_departures`` or ``get_arrivals`` (for real-time status). This confirms if the line is running on schedule *\*right now\**.

### Overlooking transfer details

#### ✗ AVOID

The user plans a trip using only two main legs, ignoring potential walking segments or required transfers.

#### ✓ INSTEAD

Always use ``plan_trip`` for multi-leg journeys. This tool handles the complex logic of combining different modes (like walking and tram) into one cohesive itinerary.

### Confusing raw data with action

#### ✗ AVOID

The user attempts to process a massive GTFS file without knowing how to parse it, resulting in unstructured code.

#### ✓ INSTEAD

If you need the underlying dataset for analysis, use ``get_transit_feed``. If you just need an answer, stick to high-level tools like ``plan_trip`` or ``search_stops``.

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## The Right Fit

Use this MCP when your task requires real-time, multi-modal transit coordination across diverse European networks. You must ask for a specific action: 'How do I get there?' or 'What is the status at X?' If you only need to know *what* lines exist in Paris, `get_operators` works. But if you need to know when the next train arrives and book

it afterward, this MCP handles the whole sequence. Don't use this if your task is purely historical research on a single operator; then `get_transit_feed` might be enough. Crucially, never try to plan a trip without first confirming the service health using `get_network_status`. Always check for disruptions before trusting any schedule.

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## Dealing with Europe's transit map feels like doing detective work.

Today, planning a journey from one major city to another means opening a dozen browser tabs. You juggle the local bus company site, the national rail operator's schedule page, and sometimes a separate bike-share portal—all while manually checking for delays or service changes. It's time-consuming, error-prone, and you often miss transfers because no single source shows the whole picture.

With this MCP integrated into your agent, that manual research vanishes. You simply ask: 'Plan a trip from Berlin to Munich.' The MCP instantly orchestrates the entire journey, combining train times with local connections, giving you one clear, actionable itinerary and knowing exactly what the cost is.

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## Get Live Intermodal Itineraries with Lyko

The tedious process of comparing schedules across buses, subways, and trains—and then manually booking a ticket for each leg—is gone. The MCP handles the planning and reservation steps in one conversational flow.

You get an automated, reliable travel planner that knows every European operator and service pattern. It's not just data retrieval; it's actionable trip intelligence.

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# Lyko: 12 Transit Planning Tools

These tools let you plan complex journeys, check live service status, find nearby stops, and access raw transit data for deep analysis.

#	TOOL	DESCRIPTION
01	<code>get_arrivals</code>	Retrieves a list of services arriving at a specific transit stop, including real-time ETAs and delay status.
02	<code>book_trip</code>	Books tickets or reservations for any available mobility service, from trains to bike rentals.
03	<code>get_departures</code>	Provides a list of upcoming services leaving a specific stop with their real-time estimated departure times (ETDs).
04	<code>get_line_info</code>	Fetches detailed metadata about a transit line, including its type, operator, and service hours.
05	<code>get_line_routes</code>	Shows the full sequence of stops and route patterns for an entire transit line.
06	<code>get_nearby_stops</code>	Identifies all available transit stops within a short distance of provided geographic coordinates.
07	<code>get_network_status</code>	Returns current alerts on disruptions, planned works, or service changes for any major transit operator.
08	<code>get_operators</code>	Lists all public transit operators in a given country or region, detailing their coverage and modes of transport.
09	<code>plan_trip</code>	Generates an optimized itinerary between two locations using combinations of multiple European transit modes.
10	<code>search_stops</code>	Finds and identifies specific transit stops by name, address, or general location.
11	<code>get_stop_info</code>	Provides comprehensive details about a single stop, including served lines, accessibility features, and local amenities.
12	<code>get_transit_feed</code>	Accesses raw GTFS data feeds containing static schedules and definitions for deep analysis or offline use.

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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** Plan a trip from Paris Gare du Nord to the Palace of Versailles using public transit.



Planning multimodal route with Lyko... I found 3 options: Option 1 (fastest): RER C from Gare d'Austerlitz to Versailles Rive Gauche — 52 minutes total, 1.2km walk from Gare du Nord to departure station, arrive at 10:23, fare €3.65. Option 2 (convenient): SNCF Transilien Line N from Gare Saint-Lazare to Versailles Rive Droite — 48 minutes, 2.1km walk to departure, depart at 09:54, arrive at 10:42, fare €3.65. Option 3 (scenic): Metro Line 6 to Bir-Hakeim, then RER C to Versailles — 68 minutes with 1 transfer, fare €3.65. All options show normal service with no delays. Would you like detailed step-by-step directions for any option?

### **U** Show me all departures from Berlin Alexanderplatz station in the next 30 minutes.



Fetching real-time departures for Berlin Alexanderplatz... I found 23 departures in the next 30 minutes across multiple lines: S-Bahn S5 (toward Strausberg Nord, departing in 3 minutes, Platform 4, on-time), S-Bahn S7 (toward Ahrensfelde, 7 minutes, Platform 3, on-time), U-Bahn U2 (toward Ruhleben, 5 minutes, Platform B2, on-time), U-Bahn U5 (toward Hauptbahnhof, 9 minutes, Platform B1, on-time), U-Bahn U8 (toward Wittenau, 12 minutes, Platform C1, delayed 4 minutes), Tram M4 (toward Zingster Strasse, 6 minutes, Platform A, on-time), Tram M5 (toward Virchow-Klinikum, 15 minutes, Platform B, on-time), Bus 100 (toward Zoologischer Garten, 11 minutes, Platform D, on-time), and 15 more services. Would you like filtering by specific line or direction?

**U** What transit operators are available in the Netherlands, and is NS (Dutch Railways) running normally today?



Checking Netherlands transit operators... I found 8 operators: NS (Nederlandse Spoorwegen) — national rail network, GVB — Amsterdam public transport (metro, tram, bus), RET — Rotterdam metro and tram, HTM — The Hague transit, Arriva — regional buses and trains, Connexxion — regional buses, Breng — Arnhem-Nijmegen regional transit, and Qbuzz — Groningen-Drenthe buses. Now checking NS network status: NS is operating normally today with all major intercity lines running on schedule. No reported disruptions, strikes, or planned works affecting main routes. Minor delays of 2-3 minutes on regional services in the Limburg area due to maintenance. High-speed international services (Thalys, Eurostar to London) are also running normally. Would you like me to check any other operator?

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## Frequently Asked Questions

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**01 How does the Lyko MCP handle connections between different transport modes?**

The ``plan_trip`` tool handles this automatically by combining multiple services like trains, buses, and walking routes into a single, optimized itinerary with calculated transfer times.

**02 Can I use the Lyko MCP to check service status for all of Europe?**

The ``get_network_status`` tool checks service disruptions across 300+ operators. You can narrow your focus by country or specific operator name.

**03 What is the difference between using ``search_stops`` and ``get_stop_info`` with Lyko MCP?**

``search_stops`` finds a list of stops near a location, while ``get_stop_info`` pulls deep metadata on a single stop, detailing which lines serve it and if it has accessibility features.

**04 Does the Lyko MCP allow me to book tickets?**

Yes, after planning your route, you can use the ``book_trip`` tool to reserve train tickets, bus passes, or bike rentals directly through the agent.

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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 `"lyko": { "url": "..." }`



Windsurf

MCP Settings → `mcp_settings.json` → 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

# Lyko 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](https://cloud.vinkius.com) →

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