

MCP SERVER

NO CODE

CLOUD HOSTED

# Omni BI Intelligence MCP

Query dashboards and data models with natural language.

Omni BI Intelligence connects your AI agent directly to your organization's business intelligence data. You can list dashboards, inspect complex data models, and run programmatic queries using plain language—no need to open the dashboard UI or write SQL.

**A+** Quality Score 100/100

data-exploration

semantic-layer

metrics-tracking

dashboard-management

query-execution



# 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

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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.

# Omni BI Intelligence MCP

10 tools available

Cloud-hosted on Vinkius

This MCP lets you talk to your company's entire data layer through natural conversation. Instead of navigating menus or building complex reports in a separate application, you just ask your agent what you want to know about your metrics and models. It handles everything from listing available dashboards to retrieving the specific calculation logic for any field. When you connect this MCP through Vinkius, your AI client sees every resource—the workspaces, the underlying data models, and all connected data sources. You can run custom queries against massive datasets right in your chat window and get those results back as a ready-to-use export link in CSV or JSON format.

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## Core Capabilities

### 01 — Discover available dashboards

List every BI dashboard configured within your organization's instance.

### 03 — Run ad-hoc data queries

Execute custom queries against your live data models directly through natural language prompts.

### 02 — Inspect data models and fields

Examine the structure, metadata, and calculation logic of specific data models and individual fields.

### 04 — Browse organizational resources

List and navigate the available workspaces, folders, and projects within the BI instance.

# One Click on Vinkius — From Prompt to Execution

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

- 01** First, subscribe to this MCP and provide your Omni BI Instance URL and API Key (Bearer Token) to Vinkius.
- 02** Next, you prompt your AI client with a request—like 'Show me the sales dashboards' or 'What fields does the Customer Retention model use?'
- 03** Finally, the agent executes the necessary queries against your data layer and returns structured results, whether that's a list of metrics or an export link.

The bottom line is, you never have to leave your chat window to analyze complex corporate data again.

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## Built For

This MCP is built for the professional who spends too much time clicking through BI interfaces just to find one number. It's for Data Analysts who need model metadata instantly, Business Leads monitoring key performance indicators without manual dashboard setup, and Operations Teams automating data retrieval.

### Data Analyst

Checks the semantic layer to run ad-hoc queries or inspect the exact calculation logic of a field before presenting findings.

### Business Lead

Monitors key dashboard metrics and reviews organizational workspaces by asking natural language questions, bypassing complex navigation menus.

### Operations Manager

Automates the retrieval of data exports or model metadata needed for monthly compliance reporting without exporting from the UI.

## What Changes When You Connect

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- 01** Stop opening the dashboard UI just to check a metric. You can ask your agent, 'What was the revenue last quarter?' and get an immediate answer without clicking through five different tabs.

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  - 02** Need to know how a number is calculated? Instead of digging into documentation or contacting IT, use the agent to inspect model metadata and see the exact field logic instantly.

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  - 03** Data exports are streamlined. Run your query using 'run\_omni\_query' and then ask the agent to generate an export link for CSV, JSON, or Excel—all in one chat session.

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  - 04** Keep your work organized by listing resource folders and workspaces directly through conversation. You can browse projects without getting lost in the BI platform's navigation tree.

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  - 05** When you need to understand data sources, 'list\_data\_connections' shows you every database Omni is pulling from. It acts like a real-time system inventory for your data team.
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## Real-World Applications

### Analyzing Q3 performance metrics

A business lead needs to know the regional sales breakdown but doesn't remember which dashboard holds that data. They ask their agent, and it suggests available dashboards using 'list\_dashboards', letting them focus on the content instead of the navigation.

### Preparing for an executive meeting

An operations manager must compile quarterly data reports from several sources. Instead of manually querying each system, they ask the agent to run a custom query using 'run\_omni\_query' and then generate a full export link using 'export\_query\_results'.

### Validating a team member's report

A data analyst receives a number from a teammate and needs to know if that field is accurate. They use 'get\_field\_details' through their agent, instantly retrieving the calculation logic for verification without ever leaving their IDE.

### Mapping out new departmental reporting

A project manager needs to know what data sources are available for a new initiative. They use the agent to list all integrated databases via 'list\_data\_connections' and survey the entire scope of the organization's BI capabilities.

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## Patterns to Avoid

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### Treating it like a general search tool

#### ✗ AVOID

Asking the agent, 'What is the best way to market our product?' because you think it'll pull in external knowledge or business advice.

#### ✓ INSTEAD

This MCP only interacts with structured BI data. If your question requires outside knowledge or strategic planning, use a general-purpose AI client instead. Use this MCP for tasks like 'list\_dashboards' or 'get\_model\_details'.

### Trying to bypass the API entirely

#### ✗ AVOID

Assuming you can just chat and get live dashboard visualizations without specifying which dashboards or models you want details on.

#### ✓ INSTEAD

Always start by narrowing your scope. Use 'list\_bi\_workspaces' first, then use 'list\_dashboards' to find the specific target before asking for detailed reports.

### Running a query without needing data

#### ✗ AVOID

Executing 'run\_omni\_query' just to check if the model is up, which creates unnecessary records and wastes tokens.

#### ✓ INSTEAD

Only run queries when you need actual results. If you just want an overview of what exists, use metadata tools like 'list\_data\_models' or 'get\_model\_details'.

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## The Right Fit

Use this MCP if your primary need is accessing structured, quantitative data stored within a dedicated BI platform (like Omni BI). If you are trying to understand metrics, model structures, field definitions, or generate reports from that internal data, this is exactly what you need. Don't use it if your problem involves unstructured tasks, like drafting emails, managing calendar invites, or querying general company policy documents—for those, you need a different MCP connected to your CRM or HR system.

However, don't confuse 'listing available dashboards' with 'running the dashboard.' This MCP is for metadata and data access; it doesn't render live visuals. If you need help with natural language *writing* or *coding*, use an agent specialized in those areas instead.

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## The Pain of Context Switching

Today, analyzing data means living in a fragmented workflow. You open the dashboard to see a metric; then you have to click into documentation to figure out how that field is calculated. Next, you switch tabs to copy the raw numbers into Excel just to run an ad-hoc calculation. The constant switching between BI UI, spreadsheets, and documentation eats up hours.

With this MCP, all of that friction disappears. You keep your agent open in one window. You ask it what you need—say, 'What is the retention rate for Q3?'—and the system handles the lookup across dashboards, data models, and underlying sources automatically. You get the answer without ever leaving your chat.

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## Accessing Data Model Intelligence

Manually checking model logic involves navigating deep menus: finding the correct model, then drilling down to the field properties tab, and finally reading the calculation definition. This is tedious, slow, and requires knowing exact internal IDs.

Now, you simply ask your agent about it. It uses 'get\_model\_details' or 'get\_field\_details' in the background and gives you the full definition instantly. You get immediate data governance visibility without having to be a BI administrator.

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# Omni BI Intelligence: 10 Tools

These tools give your agent the power to interact with every aspect of your organization's BI platform, from listing dashboards to running complex queries.

#	TOOL	DESCRIPTION
01	<code>export_query_results</code>	Takes query results and generates a file export link in CSV, JSON, or Excel format.
02	<code>get_dashboard_details</code>	Retrieves the complete layout and component metadata for a specific BI dashboard.
03	<code>get_field_details</code>	Fetches detailed information, including calculation logic, for a single data field.
04	<code>get_model_details</code>	Provides metadata about an entire data model, showing its fields and underlying structure.
05	<code>list_data_connections</code>	Lists all databases and external sources currently connected to the Omni BI instance.
06	<code>list_dashboards</code>	Returns a list of all available operational dashboards within the system.
07	<code>list_resource_folders</code>	Browses and lists organizational folders used to group related BI assets.
08	<code>list_data_models</code>	Retrieves a list of all defined data models available in the semantic layer.
09	<code>list_bi_workspaces</code>	Lists all high-level workspaces used to organize and manage different organizational projects.
10	<code>run_omni_query</code>	Executes a custom, programmatic query against the data models using defined parameters.

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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** List all our sales dashboards.



Retrieving dashboards... I found 5 related to sales, including 'Global Revenue Overview', 'Quarterly Performance', and 'Sales by Region'. Would you like the component details for the Revenue Overview?

### **U** Run a query on the 'Orders' model for fields 'total\_price' and 'status'.



Executing query... I've retrieved the latest 100 records from the Orders model. The data includes prices ranging from \$45 to \$1,200 across 'shipped' and 'pending' statuses. Shall I generate a CSV export link for the full result set?

### **U** What are the field definitions for the 'Customer Retention' model?



Fetching model details... The 'Customer Retention' model contains 12 fields including 'cohort\_month', 'retention\_rate' (measure), and 'active\_user\_count'. Would you like the specific calculation logic for the retention rate?

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## Frequently Asked Questions

### **01** How does Omni BI Intelligence MCP help me run queries?

You tell your agent what query you need and which model it should use. The tool executes the request via 'run\_omni\_query' against the data layer, giving you immediate results in the chat.

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**02 Can I list all my organization's dashboards with Omni BI Intelligence MCP?**

Yes. You simply ask to see a list of available dashboards using 'list\_dashboards', which provides an overview of everything your team is tracking.

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**03 What is the difference between list\_data\_models and get\_model\_details?**

Using 'list\_data\_models' gives you a catalog of all available models. You use 'get\_model\_details' when you know the model name and need its full metadata, like which fields it contains.

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**04 How do I export data from this MCP?**

After running any query, simply prompt the agent to generate an export link. The 'export\_query\_results' tool handles the conversion into CSV, JSON, or Excel files for you.

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**05 Does Omni BI Intelligence MCP work with all my data sources?**

The agent first uses 'list\_data\_connections' to show you exactly which databases and external sources are integrated with your specific Omni BI instance, so you know what it can access.







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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
 <b>Claude AI</b>	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 <b>Cursor</b>	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 <b>VS Code</b>	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"omni-bi-intelligence": {   "url": "..." }</code>
 <b>Windsurf</b>	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 <b>ChatGPT</b>	Settings → Tools & plugins → Add MCP server → Paste endpoint
 <b>Gemini</b>	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

# Omni BI Intelligence 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) →

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

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