

MCP SERVER

NO CODE

CLOUD HOSTED

OECD Data API MCP

Analyze Global Economic Indicators by Conversation

OECD Data API lets your AI client query global economic indicators and social statistics directly through natural language conversation. Access authoritative data from thousands of OECD identifiers, instantly auditing regional trends or historical fiscal metrics without ever touching a complex statistical portal.

A+ Quality Score 100/100

macroeconomics

statistical-indicators

policy-research

fiscal-data

sdmx

data-visualization



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.

OECD Data API MCP

3 tools available

Cloud-hosted on Vinkius

Need to run macroeconomics research? This MCP connects your agent to the OECD Data API, giving you access to global economic indicators and social statistics. You stop spending hours logging into multiple data portals and figuring out which dataset ID you need. Instead, you just talk to your AI client. Your agent handles all the complexity: it finds the right historical series, pulls current regional comparisons, and structures the results for immediate use. Everything is verified against the OECD's authoritative source. Because Vinkius hosts this API, you connect once from any MCP-compatible client (Claude, Cursor, Windsurf, etc.) and gain access to this full suite of global data tools.

Your agent acts like a real-time research analyst. It can audit long-term shifts in social indicators or compare fiscal health across different regions—all without you needing to know the specific code for each variable.

Core Capabilities

01 — Audit global datasets

Retrieves high-resolution statistical data points for thousands of OECD identifiers, letting you track deep economic changes.

02 — Query historical indicators

Checks long-term social and fiscal metrics to understand the development pattern or scale distribution over time.

03 — Browse data structures

Lists all available dataflows within the OECD catalog so you can identify relevant research markers before querying specific numbers.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/oezd-data-api — connect your AI agent in three steps.

- 01** Subscribe to this MCP in Vinkius. You won't need an API key because the OECD REST API is a free, open service.
- 02** Connect your preferred agent (like Claude or Cursor) to the MCP via Vinkius.
- 03** Tell your agent what you need—for example, 'What were the QNA growth rates in Brazil vs. Germany between 2015 and 2020?' Your agent sends the query, retrieves the numbers, and reports back.

The bottom line is that you talk to your AI client like talking to a data analyst; it handles the complex statistical searches behind the scenes.

Built For

Economists, policy analysts, and journalists use this MCP when they need verifiable, global economic data fast. If you spend time manually cross-referencing indicators across multiple government websites, this is for you.

Policy Analyst

Uses the MCP to audit regional constraints or track how changes in fiscal policy affect national accounts over a decade.

Economist

Runs comparative analyses on historical social indicators, such as educational attainment rates, across multiple OECD member states.

Financial Journalist

Quickly pulls the latest inflation and economic markers for a story, verifying data points without calling an expert.

What Changes When You Connect

- 01** Stop manual data hunting. Instead of logging into multiple government sites, your agent handles complex statistical searches using the OECD's authoritative dataset.

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- 02 Audit long-term trends instantly. You can check historical social and fiscal indicators to understand multi-decade economic scale changes without writing SQL queries.

 - 03 Always know where you are. Use `list_oecd_dataflows` to browse every available data type in the catalog, ensuring you don't miss a relevant research marker.

 - 04 Verify your findings immediately. The agent retrieves accurate observations for any given period and region, so your intelligence is always precise and sourced correctly.

 - 05 Keep your workflow moving. You can use `check_api_status` to confirm the service is operational before starting a major research project.
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Real-World Applications

Comparing post-pandemic recovery rates

A policy analyst needs to compare national accounts (QNA) growth across three countries. Instead of pulling three separate reports, they ask their agent for 'QNA data comparing X, Y, and Z from 2019 onward.' The MCP then uses `get_oecd_dataset` to pull the specific numbers and give a comparative summary.

Validating long-term inflation claims

An economist is arguing about historical inflation trends. They ask their agent for 'CPI observations across OECD regions in the 1980s.' The MCP retrieves this complex, multi-regional data using `get_oecd_dataset`, giving them verifiable proof points.

Finding indicators for a new market report

A journalist writes about developing economies and needs to know what metrics are available. They ask their agent to 'List all relevant dataflows related to education or infrastructure.' The MCP uses `list_oecd_dataflows` to provide a catalog, allowing the journalist to narrow down their focus instantly.

Setting up a research pipeline

Before starting, an operations lead wants to make sure the connection is live. They use `check_api_status` first. This quick check confirms that their entire cross-functional team's workflow will run smoothly when they start querying data.

Patterns to Avoid

Treating it like a spreadsheet macro

✗ AVOID

Writing complex, nested API calls or needing to know the exact SDMX-JSON endpoint for every single dataset. This takes hours of debugging.

✓ INSTEAD

Just talk to your agent. Tell it what you want in plain language (e.g., 'Show me health expenditure trends'). The MCP handles the technical details using tools like ``get_oecd_dataset`` automatically.

Forgetting data availability

✗ AVOID

Asking for a dataset that doesn't exist or one that was retired, leading to vague error messages and wasted time.

✓ INSTEAD

Always start by calling ``list_oecd_dataflows``. This gives you visibility into the entire catalog first. You can then use this list to guide your more specific queries.

Assuming API status

✗ AVOID

Running an entire, multi-hour research job only to find out the external service is temporarily down or throttled.

✓ INSTEAD

Run ``check_api_status`` first. This simple tool confirms that the OECD data service is operational before you invest time in a complex analysis.

The Right Fit

Use this MCP if your core research involves comparing global, quantifiable social and economic indicators across multiple countries or regions over extended periods. If your workflow requires transforming raw numbers into structured reports, this API is essential for feeding those clean data points. However, don't use it if your goal is qualitative analysis (e.g., understanding political rhetoric) or analyzing proprietary internal company data; the OECD covers public, macro-level metrics only. If you just need to talk about general economic ideas without verifiable numbers, you don't need this MCP.

The Pain of Manual Global Data Auditing

Today, getting a full picture of global trends is painful. You start by logging into the OECD website, spending thirty minutes navigating complex menus just to find the correct dataset ID for 'educational attainment.' Then you might have to jump to a second site for fiscal data, copy the numbers into an Excel sheet, and spend hours manually cross-referencing dates and regions.

With this MCP, that entire process is gone. You simply ask your agent: 'Compare education rates across OECD nations from 2010 to 2020.' The MCP handles all the complex data retrieval using tools like `get_oecd_dataset` and instantly returns a structured comparison, letting you focus on the story, not the source code.

OECD Data API: Getting Verifiable Macro Intelligence

You eliminate the need to remember dozens of dataset IDs and dataflow names. Instead of hunting through documentation to see what's available, you use `list_oecd_dataflows` to get a complete map of every indicator—from health metrics to national accounts.

Your work shifts from being an archival scavenger hunt to being pure analysis. You start talking about macroeconomics and end with verifiable data points, instantly.

OECD Data API: 3 Tools for Macroeconomics

These tools let you check service status, pull specific economic datasets, or browse the entire catalog of available global dataflows.

#	TOOL	DESCRIPTION
01	<code>check_api_status</code>	Confirms that the OECD data service is online and ready to accept research queries.
02	<code>get_oecd_dataset</code>	Pulls specific economic or social numbers using a known OECD dataset ID.
03	<code>list_oecd_dataflows</code>	Provides an exhaustive list of all available data types and datasets in the full OECD catalog for research discovery.

See It in Action

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

U Get quarterly national accounts (QNA) data from OECD.



I've retrieved the QNA dataset! The latest observations show a growth trend of [Value] across member countries. I can provide the full statistical breakdown or specific regional metadata for you.

U List all available dataflows in the OECD catalog.



I've scanned the OECD dataflow catalog! There are hundreds of series available, including markers for education, health, and fiscal policy. I can help you retrieve a specific dataset ID for any of these thematic markers.

U What are the latest observations for the 'CPI' dataset in the OECD?



I've retrieved the CPI observations! The recent data points indicate an inflation trend of [Value] for [Period]. I can assist you with an audit of the comparative metadata across different OECD regions if you'd like.

Frequently Asked Questions

01 What is the scope of OECD Data API? Does it cover private company financials?

No, this MCP only accesses official global social and economic indicators published by the OECD. It cannot retrieve proprietary or private company financial data.

02 How do I check if the service is working before starting a project with OECD Data API?

You run the `check_api_status` tool first. This simple action confirms that the entire OECD REST API connection is live and ready for your complex queries.

03 Can I use the OECD Data API to compare multiple countries in one go?

Yes, you can ask your agent to pull comparative data. The MCP uses `get_oecd_dataset` to retrieve specific metrics across several member states simultaneously for direct comparison.

04 Do I need an API key to use the OECD Data API?







No, you don't. This MCP connects to a free and open service provided by the OECD, so there are no keys required for setup.

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>"oecd-data-api": { "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

OECD Data API 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 · support@vinkius.com

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