MCP SERVER | NO CODE | CLOUD HOSTED

# BPstat Banco de Portugal MCP

## Direct access to authoritative Portuguese monetary and financial statistics.

BPstat is the official statistical database of Banco de Portugal. This MCP lets your AI client pull real-time interest rates, inflation metrics, balance of payments, and national financial accounts. You can navigate 77 statistical domains, pull specific time-series observations as CSV, or grab the latest reference values without needing any authentication.

A+ Quality Score 98.33/100

portugal | central-bank | economic-statistics | interest-rates | monetary-data | time-series

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · SEPTEMBER 2026
vinkius.com/en/ai-agent-connect/bpstat-banco-de-portugal

SCAN TO VIEW

# 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.

**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.

**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.

**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 | Ed25519 | 24h TTL | V8 Isolate |
|---|---|---|---|
| Encryption at rest | PKI vault signatures | Ephemeral session keys | 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.

**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.

**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.

**06 — Honeytoken Trap System**

Phantom credentials are injected into isolated environments. If a honeytoken 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.

**Agent Activity**

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

**FinOps**

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

**Tool Health**

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

**Firewall & DLP**

PII redaction activity, sensitive data protection counters, and security event timeline.

**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.

# BPstat Banco de Portugal MCP

5 tools available
Cloud-hosted on Vinkius

You can now connect your AI agent directly to the primary source of Portuguese economic data. Instead of relying on second-hand aggregators, you use this MCP to query the Banco de Portugal database directly. It covers everything from the Lisbor interest rate and monetary aggregates to external reserves and payment systems. You can browse the entire domain tree to find specific series, inspect detailed metadata to understand dimensional breakdowns like sector or maturity, and pull historical time-series data. If you only need the most recent figure for a calculation or a report, you can skip the history and pull just the latest observation. It is a clean, zero-auth way to feed your agent the exact numbers used by economists and the ECB.

## Core Capabilities

**01 — Domain Navigation**

Your agent uses this to crawl the 77 statistical categories to find specific data points.

**02 — Metadata Inspection**

Your agent checks this to understand the context, source, and dimensional members of a series.

**03 — Time-Series Extraction**

Your agent pulls historical data as CSV files for analysis or graphing.

**04 — Real-time Updates**

Your agent fetches the single most recent value for immediate reporting.

## One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/bpstat-banco-de-portugal** — connect your AI agent in three steps.

01 Connect your MCP-compatible client to Vinkius.

02 Your agent explores the statistical domain tree to locate relevant data.

03 The agent identifies specific series IDs using the list tools.

04 The agent pulls the requested data as JSON or CSV.

05 The data is ready for your agent to analyze or present.

Connecting to this MCP gives your AI client immediate access to the Banco de Portugal database.

## Built For

This MCP is built for professionals who require primary source data from the Portuguese central bank.

**Economists**

They hand off the task of gathering specific monetary aggregates or inflation data to their agent.

**Financial Analysts**

They use the agent to pull interest rate trends and balance of payments figures.

**Journalists**

They use the agent to quickly verify official Portuguese economic figures for reporting.

## What Changes When You Connect

01 Accesses the same data used by the ECB and professional economists.

02 Eliminates the need for manual API authentication or complex setup.

| | |
|---|---|
| 03 | Provides direct CSV output for time-series data. |
| 04 | Reduces data errors by pulling from the authoritative central bank source. |

## Real-World Applications

**Economic Modeling**

An agent pulls historical inflation and interest rate series to feed into a custom economic model.

**Market Monitoring**

A user asks their agent to check the latest Lisbor rate to monitor liquidity conditions.

**Financial Reporting**

A researcher uses the CSV output of debt securities stock to build a quarterly report.

**Data Verification**

A journalist uses the metadata tool to confirm the source and methodology of a specific statistic.

# 5 Tools Available

| # | TOOL | DESCRIPTION |
|---|---|---|
| 01 | `list_statistical_domains` | This tool lists the 77 statistical domains available in BPstat, such as monetary, external, or interest rate data. Use the parent ID to navigate through sub-domains. |
| 02 | `list_domain_series` | This tool retrieves the statistical series within a specific domain. It uses pagination to help you find the right series without overloading the request. |
| 03 | `get_series_metadata` | This tool provides full metadata for a specific series, including its source, dimensional breakdowns, and the last recorded value. |
| 04 | `get_series_observations` | This tool pulls historical time-series observations as a CSV. You can apply start and end date filters to keep the data payload manageable. |
| 05 | `get_latest_values` | This tool returns the most recent reference date and value for a series. It is a lightweight way to get current figures like the latest inflation or interest rate. |

# See It in Action

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

**U** What is the latest value of BPstat series 12456320 and what does it measure?

Series 12456320 measures the net lending/net borrowing of the total economy through accumulated transactions. The latest value is 2.38 as of 2026-03-31. The historical range goes from a minimum of -12.5 during the 2012 crisis to a maximum of 6.9.

**U** Pull the 2025 monthly history of debt securities stock series 12834303

The 2025 monthly history for series 12834303 (debt securities stock) is: Jan 523.94, Feb 527.93, Mar 527.05, and Dec 538.12. The data shows a steady monthly growth of 2.7% over the year.

**U** What statistical domains does Banco de Portugal publish and where are interest rates?

BPstat publishes 77 domains including National financial accounts, External statistics, Payment systems, Cash issuance, and International reserves. Interest rates are located in their own dedicated domain, which includes Lisbor and retail bank rates.

# Frequently Asked Questions

01 **Do I need an API key to use BPstat data?**

No, this MCP uses zero-auth access to the Banco de Portugal statistical database.

02 **Can I get the latest interest rates?**

Yes, you can use the get_latest_values tool to pull the most recent reference date and value for interest rate series.

03 **What kind of data is available?**

The database includes monetary aggregates, inflation, interest rates, balance of payments, external reserves, and national financial accounts.

04 **Which AI clients can use this MCP?**

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

05 **How can I filter the historical data I pull?**

You can use the start_date and end_date parameters in the get_series_observations tool to limit the results to a specific timeframe.

# 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 `"bpstat-banco-de-portugal": { "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

# BPstat Banco de Portugal 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

| | |
|---|---|
| Generated | September 2026 |
| MCP Server | BPstat Banco de Portugal MCP |
| Server ID | `01a07eac-79d0-7191-882c-64a9792aced0` |
| Platform | Vinkius Cloud for AI Agents |
| Endpoint | `https://edge.vinkius.com/{token}/mcp` |

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