

MCP SERVER

NO CODE

CLOUD HOSTED

# Clover MCP for AI Agents

## Manage POS inventory, payments, and customer orders

Clover MCP connects your entire Point of Sale system to any AI agent. You can manage complex retail operations—from checking current inventory levels and tracking product categories to processing payments, retrieving detailed customer profiles, and managing employee rosters. It turns tedious clicking through multiple POS tabs into simple conversation.

**F** Quality Score 3.6/100

pos-system

retail-management

order-tracking

merchant-services

inventory-control

transaction-reporting



# 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.

# Clover MCP

10 tools available

Cloud-hosted on Vinkius

This connection gives your AI client full visibility into your Clover POS data. Instead of navigating separate screens for payments, orders, or stock counts, you just ask the question. You can pull up detailed information on specific transactions using `get_order`, list recent sales activity with `list_orders`, and even check out which products are running low by calling `list_inventory`. Need to know who bought something last week? Your agent pulls customer profiles instantly via `list_customers`. The whole catalog of tools is housed in Vinkius, so you connect once and gain access to all your essential business data. It's how you stop managing tabs and start making decisions.

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## Core Capabilities

### 01 – List recent sales transactions

The agent retrieves a list of completed orders, including line items, payment totals, and tips.

### 03 – Manage product catalog data

The MCP allows you to view all available menu items or products and group them by category.

### 05 – Check stock levels and alerts

The agent reports on current inventory counts, highlighting items that need reordering or are running low.

### 02 – Retrieve specific order details

You get deep-dive information on any single transaction, showing exactly what was purchased and how it was paid for.

### 04 – View customer purchase history

You can pull up profiles for specific customers, seeing their total spending and past visits.

# One Click on Vinkius — From Prompt to Execution

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

- 01 You instruct your AI client to perform a specific POS action (e.g., 'Show me last week's total payments').
- 02 The MCP maps that conversational request to the correct underlying tool, like calling `'list_payments'` or checking stock via `'list_inventory'`.
- 03 Your agent receives structured data from Clover and presents it back to you in plain language, ready for action.

The bottom line is: your AI client acts as the single point of contact for all your POS functions, giving you instant operational reports without ever needing to log into multiple systems.

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## Built For

Store Managers and Operations Leads who spend their mornings reconciling payments against physical stock counts. If your job involves pulling sales data from one system while checking inventory levels in another, this MCP saves you hours of repetitive clicking.

### Retail Store Manager

Using the MCP to quickly audit daily receipts by reviewing payment totals and running `'list_orders'` reports.

### Inventory Specialist

Checking stock levels against sales data using `'list_inventory'` and cross-referencing it with product categories via `'list_categories'` to plan reorders.

### Financial Analyst

Generating reports by pulling payment summaries (`'list_payments'`) alongside customer spending history (`'list_customers'`) for monthly revenue analysis.

## What Changes When You Connect

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- 01** Stop manually cross-referencing sales sheets. You can instantly pull full payment breakdowns by using `list_payments` to see card totals versus cash deposits.

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  - 02** No more guessing about stock levels. Calling `list_inventory` gives you real-time counts and immediately flags exactly which product needs reordering.

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  - 03** Quickly audit any sale. If a customer asks for details on an old purchase, your agent calls `get_order` to pull the full receipt data instantly.

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  - 04** Staff management is simple. You can view employee roles and check who processed what sales by running `list_employees` in conjunction with order history.

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  - 05** Improve marketing efforts. By using `list_customers`, you get immediate access to visit history, helping you target specific clients with personalized offers.
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## Real-World Applications

### The daily cash reconciliation

A manager needs to reconcile the day's takings. They ask their agent for a payment breakdown. The agent runs `list\_payments` and reports: 'Card sales hit \$3,200 across 45 transactions; we had \$680 in cash.' This replaces hours of manual spreadsheet work.

### Finding the source of a disputed charge

A customer calls about an old transaction. The manager asks their agent to find it. The agent runs `get\_order` using the ID, and instantly provides all details: 'Order #89283 was paid with Visa ending in 4412 for a total of \$42.50.'

### The sudden stock shortage

A staff member notices a product is missing. They ask their agent to check inventory. The agent uses `list\_inventory` and reports: 'We only have 2 units of House Blend Coffee Beans left; we need to reorder immediately.' This prevents lost sales.

### Analyzing top sellers by category

The owner wants to know which product groupings are doing best. They ask the agent to list items, and the system runs `list\_items` and `list\_categories`, giving a clear breakdown of revenue sources.

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## Patterns to Avoid

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### Calculating tax manually

#### ✗ AVOID

Trying to calculate sales tax or discount amounts by reading multiple transaction reports and using an external spreadsheet. This is slow, error-prone, and misses nuances.

#### ✓ INSTEAD

Let your agent handle it. Use `list\_discounts` combined with `get\_order` to pull the precise tax rate and promotional savings applied to any sale.

### Finding product details by name only

#### ✗ AVOID

Searching through old reports for a product, but missing the exact price or if it was on discount that day. The data is too scattered.

#### ✓ INSTEAD

Always call `list\_items` first to get the current catalog structure and pricing, then use `get\_order` to see how specific discounts were applied.

### Checking staff sales records manually

#### ✗ AVOID

Pulling multiple reports—one for sales totals, another for employee logins—and trying to match the numbers yourself.

#### ✓ INSTEAD

Use `list\_employees` to see the roster and then use the order data through your agent to quickly identify which employees processed specific transactions.

## The Right Fit

Use this MCP if your core operations revolve around physical retail flow: managing payments, tracking stock movements, or reviewing customer transaction history. It's essential for anyone needing a unified view of their Point of Sale data. Don't use it if you only need to manage non-transactional assets, like purely HR payroll scheduling; those require dedicated internal tools. If your need is strictly marketing analysis based on external demographic data (and not purchase history), look into a pure CRM MCP instead.

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## Clover MCP for AI Agents: Simplifying POS Payment Reconciliation

Today, reconciling payments means jumping between your daily sales reports and the actual cash drawer count. You pull one report to see total card volume, then another to check refunds, and you have to manually tally up tips from multiple sources just to get a clean picture of the day's revenue.

With this MCP, you ask your agent for 'today's full payment breakdown.' It runs `list_payments` and gives you one clear answer: total card sales, cash deposits, tip accumulation, and refunds—all in one shot.

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## Clover MCP for AI Agents: Tracking Inventory Flow with POS Data

Inventory checks used to be a massive pain. You'd physically count shelves, then cross-reference that number against the sales receipts from the last week, hoping you didn't miss any categories or modifiers.

Now, you just ask your agent: 'What are we running low on?' It immediately accesses `list_inventory` and flags the exact products needing reorder. Your system knows what moved out the door because it sees the sales data.

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# Clover's 10 Tools for POS Data Management

Use these tools to retrieve specific data points, including customer profiles, order histories, employee rosters, and current inventory counts.

#	TOOL	DESCRIPTION
01	<code>list_orders</code>	Retrieves a list of recent sales transactions from the Point of Sale (POS) system.
02	<code>get_merchant</code>	Fetches general information about the business merchant account.
03	<code>get_order</code>	Retrieves detailed specifics for a single, identified order ID.
04	<code>list_items</code>	Provides a comprehensive list of all available products or menu items with their current pricing and taxes.
05	<code>list_categories</code>	Shows the different groupings that organize your product line, helping you filter large catalogs.
06	<code>list_customers</code>	Retrieves a list of registered customers and their associated profiles in the POS system.
07	<code>list_employees</code>	Lists all staff members on payroll, including roles and status information.
08	<code>list_payments</code>	Generates a summary report of all payments processed over a specified time period.
09	<code>list_inventory</code>	Checks the current stock levels for every product and reports on low-stock alerts.
10	<code>list_discounts</code>	Lists all active discount codes or promotional rules used in sales transactions.

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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 Show me last week's revenue breakdown.



Here is your summary for the past 7 days:

- Card Sales: \$14,500 (210 transactions)
- Cash Deposits: \$3,200 (68 transactions)
- Discounts Applied: -\$950.00
- Total Tips Recorded: \$1,100.00

Total net revenue over the period was \$17,850.00.

### U Which products are running low and what categories are affected?



I checked inventory across all departments. You have 4 items below your safety stock level:

- House Blend Coffee Beans (2 units left)
- Almond Milk Liters (5 cartons left)
- Organic Matcha Powder (1 unit remaining)

These items belong to the 'Beverage' and 'Pantry' categories, respectively.

### U Find details for transaction ID #90283.



Order #90283 was processed at table 1. Total: \$42.50. Items included: 2x Cheeseburger, 1x Large Fries, and 2x Cola.

Payment method: Visa ending in 4412.

The sale used a 'Combo Deal' discount code that saved the customer \$2.00.

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# Frequently Asked Questions

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**01 How does Clover MCP help me reconcile daily sales?**

It gives you one conversation point for all your payments data. Instead of juggling multiple reports, you ask your agent to summarize today's transactions and get a single breakdown of card totals, cash intake, tips, and refunds.

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**02 Can I use Clover MCP to track my best-selling items?**

Absolutely. By combining the ability to list products with transaction data, you can quickly see which categories are driving the most revenue and spot high-demand goods before they run out.

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**03 Does this MCP handle employee performance tracking?**

Yes, it helps by letting you pull order details tied to specific employees. You can review who processed what sales or handled which transactions for accountability.

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**04 What if I need to check stock levels across different departments?**

You just ask the agent to list inventory, and it checks all your defined product lines at once. It's designed to give you a comprehensive view of every single item.

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**05 Is Clover MCP good for multi-location businesses?**

It centralizes data retrieval from your POS system. You can ask the agent to pull payment summaries or inventory reports that would otherwise require logging into multiple management portals.







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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>"clover": { "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

# Clover 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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