MCP SERVER | NO CODE | CLOUD HOSTED

Creative Supply Expiration Planner MCP

Stop throwing away expensive paints and chemicals.

Creative Supply Expiration Planner MCP tracks the lifecycle of your studio inventory. It monitors expiration dates and opened status for paints, inks, adhesives, and chemicals. Your AI client uses this data to tell you exactly what to use before it spoils and what needs to be tossed.

A+ Quality Score 100/100

inventory | expiration | supplies | waste-reduction | creative-studio

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vinkius.com/en/ai-agent-connect/creative-supply-expiration-planner

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.

Creative Supply Expiration Planner MCP

4 tools available
Cloud-hosted on Vinkius

Managing a creative studio means dealing with a constant rotation of perishable supplies. If you work with inks, films, or specialized chemicals, you know how quickly a bottle can go bad once it's opened. This MCP keeps your inventory organized so you don't lose money on wasted materials. Instead of manually checking labels, you let your AI agent handle the math. It monitors shelf life and expiration dates across your entire stock. You can ask your agent to find items that are still good but need to be used immediately, or get a list of everything that has already expired. It's a simple way to keep your workspace efficient and your supply costs predictable.

Core Capabilities

01 — Waste Prevention

Your agent identifies supplies nearing their expiration date so you use them in time.

02 — Inventory Auditing

The AI pulls a complete list of all current supplies on demand.

03 — Disposal Management

Your agent flags expired chemicals and paints that require immediate disposal.

04 — Lifecycle Tracking

The AI monitors the specific history and status of individual inventory items.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/creative-supply-expiration-planner** — connect your AI agent in three steps.

01 Connect the MCP to your preferred client like Claude or Cursor via Vinkius.

02 Ask your agent questions about your current supply levels or expiration dates.

03 The agent uses the specific tools to query your inventory data.

04 Your agent provides a direct answer or a list of items to act on.

Connecting this MCP to your AI client gives your agent direct access to your inventory data.

Built For

This MCP is built for professional creative environments where material shelf life is a factor in production costs.

Studio Managers

They use the AI to audit supply levels and prevent budget loss from spoiled materials.

Print Shop Operators

They rely on the agent to track ink and chemical expiration to ensure print quality.

Art Technicians

They use the tool to manage the lifecycle of adhesives, films, and specialized coatings.

What Changes When You Connect

01 Reduces material waste by flagging items before they expire.

02 Saves time by automating inventory checks through your AI client.

03 Prevents the use of expired chemicals in production.

04 Provides clear visibility into the lifecycle of every supply item.

Real-World Applications

Preventing Ink Spoilage

Your agent identifies which ink bottles are nearing their end of life so you can use them in your next print run.

Chemical Safety Audits

The AI generates a list of expired chemicals that need to be safely removed from the studio.

Supply Replenishment Planning

You use the full inventory list to see what you have in stock before ordering more.

Daily Workflow Prioritization

The agent tells you which adhesives or films to use first to maximize their utility.

Patterns to Avoid

Manual Expiration Checking

AVOID

You spend your Monday morning walking through the studio and reading every single label on ink bottles and chemical containers.

✓ INSTEAD

Let your agent handle the math. Use `get_use_first_list` to see exactly which items need to be used before they spoil.

Ignoring Expired Materials

AVOID

You keep old, expired adhesives on the shelf because you haven't had time to do a full inventory audit.

✓ INSTEAD

Run `get_expired_list` to identify exactly what needs to be tossed out immediately to keep the workspace safe.

Blind Reordering

AVOID

You order a massive shipment of specialized films without checking if you already have enough sitting in the back room.

✓ INSTEAD

Check your current stock levels first by calling `list_all_inventory` to avoid overspending on unnecessary supplies.

The Right Fit

Connect this MCP if your studio manages perishable inks, chemicals, or films where shelf life affects your bottom line. Do not connect it if you only stock non-perishable hardware or tools. The decision rests on whether your supply costs are currently being eaten by expired material waste.

4 Tools for Managing Creative Supply Lifecycles

These tools give your agent direct access to your inventory status, expiration logs, and priority usage lists.

#	TOOL	DESCRIPTION
01	`get_expired_list`	This tool identifies all supplies that have passed their expiration date and need to be thrown away.
02	`get_supply_status`	This tool provides a detailed lifecycle view for a specific item in your inventory.
03	`get_use_first_list`	This tool finds non-expired supplies that you should use immediately to prevent them from spoiling.
04	`list_all_inventory`	This tool gives you a full overview of every supply currently held in your inventory.

See It in Action

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

U Which paints should I use first to avoid waste?

You should use the following paints soon: Blue Acrylic (3 days remaining) and Red Ink (5 days remaining).

U Show me all my expired chemicals.

The following chemicals have expired: Solvent-X (expired 2 days ago) and Fixative-B (expired 5 days ago).

U What is the status of supply ID supply_123?

Supply supply_123 (Gloss Varnish) is currently Good. It was purchased on 2024-01-15 and will expire on 2024-07-15.

Frequently Asked Questions

01 **What kind of supplies can I track with this MCP?**

You can track paints, inks, adhesives, films, and various chemicals used in creative production.

02 **How does this help reduce waste in my studio?**

The MCP identifies supplies that are still good but nearing expiration, allowing you to use them before they spoil.

03 **Can I use this with Claude or Cursor?**

Yes, you can connect this MCP to any MCP-compatible client including Claude, Cursor, and Windsurf.

04 **How do I find out what needs to be thrown away?**

You can ask your agent to run the tool that identifies all supplies that have already passed their expiration date.

05 **Do I need to host this myself?**

No, Vinkius hosts and manages the MCP for you, so it is ready to use as soon as you connect it.

06 **How does the tool help reduce waste?**

It identifies supplies that are nearing their expiration date through the `get_use_first_list` tool, allowing you to use them before they expire.

07 **Can I filter by specific supply types?**

Yes, most tools like `get_use_first_list` and `get_expired_list` allow you to filter by category, such as paints or inks.

08 **What happens when a supply is opened?**

Opening a container can change its stability profile. You can use `get_supply_status` to check the current lifecycle state of an item.

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 `"creative-supply-expiration-planner": { "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

Creative Supply Expiration Planner 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

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Server ID	`01a0f748-b376-736e-85a8-564a7ba32c33`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

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