

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Paint Project Coordination Plan MCP

Turn raw painting data into a synchronized execution plan.

Paint Project Coordination Plan MCP handles the logistics of interior painting jobs. It manages room sequencing, material requirements, and resident safety timelines. Your AI client uses this to build schedules, calculate supply needs with touch-up reserves, and plan when rooms are safe for occupancy.

A+ Quality Score 100/100

painting

scheduling

materials

occupancy

quality-control



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.

Paint Project Coordination Plan MCP

4 tools available

Cloud-hosted on Vinkius

Managing an interior painting project involves more than just applying color to walls. You have to juggle room sequences, ensure the right amount of paint is on-site, and track when residents can safely return to their spaces. This MCP handles those moving parts for you. Instead of manually tracking drying times or supply lists, you give your agent the project details and let it build the logistics. It maps out a chronological timeline for every room, calculates exactly how much material you need to avoid shortages, and plans occupancy based on curing requirements. You can also use it to generate quality control checklists to make sure the final work matches the original scope. It turns messy project notes into a structured plan that keeps the job on track and the residents safe.

Core Capabilities

01 — Timeline Generation

Your agent uses this to map out the order of work across multiple rooms.

02 — Supply Calculation

Your agent calculates material needs including extra reserves for touch-ups.

03 — Safety Planning

Your agent determines when spaces are safe for residents based on curing needs.

04 — Quality Control

Your agent creates checklists to verify work against the contractor scope.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/paint-project-coordination-plan — connect your AI agent in three steps.

- 01

Connect your preferred MCP-compatible client like Claude or Cursor to Vinkius.
- 02

Provide your project details, such as room types and material amounts, to your agent.
- 03

The agent uses the MCP tools to process your data into schedules or lists.
- 04

Review the generated plans, schedules, or checklists directly in your chat interface.

Connect your AI client to Vinkius and start managing your painting logistics immediately.

Built For

This MCP is built for professionals managing residential or commercial painting contracts.

Project Managers

They hand off project scope and room details to generate schedules and material lists.

Painting Contractors

They use it to ensure they have enough supplies and to manage resident return times.

Site Supervisors

They use the sign-off tools to verify work quality before closing out a job.

What Changes When You Connect

- 01

Calculates material needs with built-in touch-up reserves to prevent shortages.
- 02

Automates room sequencing to keep crews moving efficiently.

-
- | | |
|----|---|
| 03 | Manages resident safety by tracking room occupancy based on curing times. |
| 04 | Standardizes quality control through automated sign-off checklists. |
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Real-World Applications

Multi-Room Scheduling

Organize a sequence of work for an entire house where some rooms require more prep than others.

Material Procurement

Determine exactly how much paint and supplies to order for a specific job to avoid waste.

Resident Management

Communicate safe return times to homeowners based on how long paint needs to dry.

Final Inspection

Verify that a contractor has completed all tasks in the scope before issuing payment.

Patterns to Avoid

Guessing material quantities

❌ AVOID

You tell your agent to just buy enough paint for a three-bedroom house without providing specific room dimensions or prep needs.

✓ INSTEAD

Provide exact project details and use ``calculate_material_handoff`` to get a precise list that includes touch-up reserves.

Ignoring curing times

❌ AVOID

You schedule a resident to move back into a bedroom the same afternoon the crew finishes painting.

✓ INSTEAD

Use ``create_occupancy_plan`` to determine exactly when a space is safe based on the specific drying requirements.

Vague project timelines

❌ AVOID

You tell the crew to start on Monday and hope they finish the whole house by Friday.

✓ INSTEAD

Input your project scope and use ``generate_room_schedule`` to create a room-by-room chronological timeline.

The Right Fit

Professional painting contractors and project managers should connect this MCP to handle scheduling and supply math. If you are a DIYer painting a single room, you don't need this. The decision comes down to whether you are managing multiple rooms and resident occupancy across a job site.

Turning messy project notes into a structured field plan

Most painting jobs fall behind because the logistics are handled on scraps of paper or vague text threads. You might know the total square footage, but you haven't mapped out how the prep work in the kitchen affects the timeline for the living room. This MCP changes that. You feed your raw project notes and room details into your agent, and it builds a logical sequence of work.

Once the schedule is set, the focus shifts to the physical supplies. Instead of running to the store mid-job because you ran out of primer, you use the tool to calculate exactly what stays on-site. It accounts for the extra paint needed for touch-ups so your crews aren't sitting around waiting for a delivery. It turns a chaotic list of tasks into a predictable workflow.

Managing resident safety and final quality sign-offs

Safety is a major liability when dealing with residential clients. You can't just guess when a room is ready for a family to move back in. This MCP handles the math on curing times so you can give homeowners clear, reliable return dates. It

Closing out a job is just as critical as starting it. To prevent disputes over unfinished work, you can generate a specific document to verify the contractor met every requirement in the original scope. This ensures that when you issue a final

ensuring residents aren't walking into fumes or wet walls.

promised. It brings a level of professional rigor to the final inspection that manual checklists often miss.



4 Tools for Painting Project Coordination

These tools handle the logistics of room sequencing, material math, resident safety, and final inspections.

#	TOOL	DESCRIPTION
01	calculate_material_handoff	This tool generates a specific list of all materials the contractor needs to have on-site to complete the job.
02	create_occupancy_plan	This tool determines the exact timing for when rooms are safe and ready for residents to return.
03	generate_room_schedule	This tool builds a chronological timeline of work for every individual room in the project.
04	generate_signoff_checklist	This tool produces a quality control document to verify the finished work meets the agreed scope.

See It in Action

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

- U** Generate a schedule for rooms R1 (smooth) and R2 (damaged) with R1 first, and R2 needing extra prep time.



The schedule is set: Room R1 will be completed first, followed by Room R2, which includes additional time for surface repair and priming.

- U** Calculate materials for 10L of Blue-01 and 5L of White-02, with a 10% touch-up reserve.



You will need 11L of Blue-01 and 5.5L of White-02 to account for the 10% reserve.

- U** Create a sign-off checklist for a contractor responsible for painting walls and cleaning up debris.



The checklist includes: Surface Quality (check for even coating), Color Match (verify color against selection), and Cleanup (verify all debris is removed).

Frequently Asked Questions

01 What can this MCP do for my painting business?

It handles the logistics of your projects, including room scheduling, material calculations, occupancy planning, and quality control checklists.

02 How does it handle material shortages?

The `calculate_material_handoff` tool allows you to include a reserve, such as a 10% touch-up buffer, to ensure you have enough supplies on-site.

03 Can I use this with Claude or Cursor?

Yes, this MCP is compatible with any MCP-compatible client including Claude, Cursor, and Windsurf.

04 How does it manage resident safety?

The `create_occupancy_plan` tool determines when rooms are safe for residents to return to based on the necessary curing times.

05 Does it help with quality assurance?

Yes, you can use the `generate_signoff_checklist` tool to create a document that verifies the work meets the specific contractor scope.

06 How does the tool handle surface preparation?

The `calculate_material_handoff` tool automatically includes primer or filler in the material list if surface notes indicate the surfaces are unprimed or damaged.

07 Can I control the order in which rooms are painted?

Yes, you can define a preferred workflow using the `generate_room_schedule` tool by providing a specific user sequence of room IDs.

08 How is resident safety managed during the project?

The `create_occupancy_plan` tool calculates when rooms are safe to re-enter by combining the scheduled work end time with the specific curing hours required for the paint type used.

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>"paint-project-coordination-plan": { "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

Paint Project Coordination Plan 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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