MCP SERVER | NO CODE | CLOUD HOSTED

Schedule Interruption Handler MCP for AI Agents

Accurate Recalculation of Dosage Tracking Timelines

The Schedule Interruption Handler manages complex, time-sensitive medical and procedural regimens. It lets your AI client instantly recalculate a patient's entire timeline when doses are missed or treatments pause unexpectedly. Get an accurate new completion date and a full, stable sequence of instructions.

A+ Quality Score 100/100

medical-schedule | dosage-tracking | timeline-adjustment | interruption-handling | virtual-clock

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vinkius.com/mcp/schedule-interruption-handler

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.

Schedule Interruption Handler MCP

3 tools available
Cloud-hosted on Vinkius

Medical dosing schedules aren't simple straight lines; they depend on adherence over time. When life happens—you miss a few days, or the treatment pauses for travel—the whole plan needs adjustment. This MCP handles that complexity. It lets your AI client look at an interrupted timeline and recalculate exactly where you stand without losing progress or destabilizing the regimen. Instead of manually figuring out how many weeks are added to the completion date, this tool calculates it automatically. You get a new sequence of instructions starting from when care resumes, ensuring the dosage level stays stable. All this logic is managed through Vinkius, making complex medical planning accessible via any compatible AI client.

Core Capabilities

01 — Determine the extended completion date

Calculates how many additional weeks are needed to finish a treatment after an interruption.

02 — Generate the updated dosing instructions

Creates the precise, adjusted sequence of future medical doses starting from the current point in care.

03 — Provide a clear summary of the gap's impact

Generates an easy-to-read explanation detailing what the schedule interruption meant for the overall treatment plan.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/schedule-interruption-handler** — connect your AI agent in three steps.

01 First, feed your AI client the current medical regimen details and specify the exact dates or duration of the gap/interruption.

02 The MCP processes this data, calculating the delay's impact on the overall timeline while maintaining required dosage stability. It then generates a summary explanation for you to review.

03 Finally, it outputs the complete, adjusted schedule, giving you the specific instructions needed to resume treatment from day one.

The bottom line is that your AI client gets an accurate, medically sound plan of action immediately after any unplanned gap in care.

Built For

Anyone managing complex or long-term medical regimens—from clinical research staff to patient navigators. If you spend time manually adjusting medication schedules after a delay, this MCP is for you.

Clinical Nurse Coordinator

Needs to adjust treatment plans rapidly when a patient misses doses or has an unplanned hospital stay.

Patient Navigator

Uses the tool to explain complex schedule changes to patients in plain language, ensuring they understand their new dosing timeline.

Pharmaceutical Researcher

Requires accurate calculation of regimen delays when testing drug adherence or efficacy over extended periods.

What Changes When You Connect

01 Stop guessing about the new end date. Use `calculate_underrun` to instantly know how many weeks a missed period adds, giving you immediate project timeline clarity.

02 You get a stable regimen every time. The MCP uses `get_resumed_schedule` to build out the next steps, ensuring the dosage remains correct even after long pauses.

03 No more confusing notes. `get_interruption_summary` provides clear, plain-language explanations of what happened and why the schedule changed.

04 It handles complexity automatically. Your AI client manages the entire mathematical load of time gaps, freeing up your staff for direct patient care.

05 Speed matters when medicine is involved. Get comprehensive adjustments in seconds, not hours spent cross-referencing medical guidelines.

Real-World Applications

A patient misses several weeks of treatment doses

The nurse coordinator needs to know the new finish date for a chemotherapy cycle that was interrupted. They ask their agent, which uses `calculate_underrun` to confirm the schedule extends by 4 weeks and generates the full revised plan using `get_resumed_schedule`.

A study participant pauses treatment due to travel

The researcher needs to adjust a long-term drug trial timeline. The agent uses this MCP to generate a clear summary of the gap's impact via `get_interruption_summary` and provides the updated schedule for when they return.

A primary care physician adjusts an existing patient's regimen

The doctor inputs a record showing two months missed doses. The MCP immediately calculates the new required completion date using `calculate_underrun` and outputs the necessary instructions to resume treatment safely.

A medical student simulates an interruption scenario for training

The student asks their agent to model a 3-week gap at week 10. The MCP generates the adjusted schedule using `get_resumed_schedule`, showing how the dosage remains stable through the simulated delay.

Patterns to Avoid

Using general scheduling tools

✗ AVOID

Trying to adjust medical dosages using a simple calendar or generic project management tool. These fail because they don't understand dose stability rules.

✓ INSTEAD

You must use the Schedule Interruption Handler MCP, which specifically calculates dosage continuity and delay impacts using `calculate_underrun` and `get_resumed_schedule`.

Manual spreadsheet recalculation

✗ AVOID

Manually updating a complex Excel sheet to account for missed doses. This is slow, error-prone, and requires deep domain knowledge.

✓ INSTEAD

Let your AI client handle the math. Use `get_interruption_summary` first to understand the impact, then use `get_resumed_schedule` for the final plan.

Ignoring dosage stability rules

✗ AVOID

Simply adding 'X' number of weeks to a date without checking if that advancement destabilizes the drug level. This is medically dangerous.

✓ INSTEAD

The MCP ensures stability by recalculating based on medical protocol, guaranteeing the correct sequence regardless of interruption length.

The Right Fit

Use this MCP when your primary need involves adjusting complex, time-sensitive dosing schedules following a gap in care. If you only need to reschedule non-medical appointments (like dentist visits or follow-up calls), then a standard calendar tool works fine. However, if the delay impacts dosage stability—for example, calculating how many weeks are added after missing doses—you must use this

MCP. Never rely on basic date math for medical timelines; always let your agent call `calculate_underrun` and `get_resumed_schedule` to guarantee clinical accuracy.

Schedule Interruption Handler: Managing Dosage Tracking Gaps

Manually adjusting a medical dosing schedule is a nightmare. You have to track the original completion date, figure out exactly how many weeks were missed, and then recalculate every single subsequent dose while making sure the dosage level stays stable. It's hours of tedious cross-referencing across multiple tabs.

With this MCP, your AI client takes over that entire process. You tell it what was interrupted, and it immediately gives you the adjusted schedule, confirming the new target completion date in seconds. It's instantaneous clarity.

Schedule Interruption Handler: Expediting Procedural Timeline Adjustments

The biggest time sink is generating the actual next steps. You can't just guess what to do after a gap; you need a precise, sequential list of instructions that account for the delay and keep the patient on target.

This tool handles that sequence generation instantly using `get_resumed_schedule`. It takes the chaos of an interruption and gives you one clean, actionable plan. That's what changes now.

3 Scheduling Interruption Handlers for Dosage Tracking

Use these tools to calculate delays, summarize gaps, and generate corrected medical schedules instantly.

#	TOOL	DESCRIPTION
01	`calculate_underrun`	Determines the exact number of weeks added to a treatment's completion date due to an interruption.
02	`get_interruption_summary`	Outputs a simple, human-readable summary explaining how the schedule gap impacted the overall care plan.
03	`get_resumed_schedule`	Generates the full, corrected sequence of medical instructions starting from the day treatment resumes.

See It in Action

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

U I missed three weeks of my antibiotic treatment starting at week 5. What is the new target completion date?

Schedule Interruption Report

- **Original End Date:** Week 12
- **Interruption Period:** Weeks 5 through 8 (3 weeks missed)
- **Calculated Underrun:** +3 Weeks
- **New Target Completion: Week 15**

Please continue the regimen until week 15. We'll generate the full schedule next.

U Generate a new dosing plan for me after my treatment was paused at week 10 because of surgery, and my dose was 5mg.

Resumption Schedule: Stable Dosage

Based on your recovery period, the regimen resumes at Week 12. The dosage remains stable:

- Week 12: 5mg
- Week 13: 5mg
- Week 14: 5mg
- Week 15: 5mg (Final Dose)

The adjusted schedule is ready to follow.

U Summarize the impact of missing six weeks starting at week 2.

Interruption Summary

There was a significant interruption, pausing treatment for six weeks. While the virtual clock advanced during this time, the system confirms that your required dosage level remained stable throughout the gap. The schedule is ready to be recalculated.

Frequently Asked Questions

01 **How does the Schedule Interruption Handler adjust my treatment date?**

It calculates the exact delay caused by missed doses or gaps, telling you precisely how many weeks are added to your original completion target. It prevents underestimating the necessary time.

02 **What if I need a new set of instructions after an interruption?**

The MCP generates a fully adjusted sequence of instructions starting from when care resumes. You get clear, step-by-step dosing guidance that maintains medical accuracy.

03 **Can this tool tell me if my dosage was affected by the delay?**

Yes, it provides a detailed summary of the gap's impact. This lets you know immediately if the interruption caused any clinical concerns or required special notes for your care team.

04 **Is this reliable for complex medical schedules?**

It is designed specifically for time-sensitive regimens, ensuring that dose stability and protocol rules are maintained when recalculating timelines after real-world delays. It's built for clinical accuracy.

05 **Does the Schedule Interruption Handler work with my current AI client?**

Since it lists on Vinkius, yes. You connect your preferred AI client (like Claude or Cursor) once and gain access to this powerful scheduling tool instantly.

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 `"schedule-interruption-handler": { "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

Schedule Interruption Handler 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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