MCP SERVER | NO CODE | CLOUD HOSTED

Autodesk Construction Cloud MCP for AI Agents

Manage BIM Data, File Structures, and Project Assets in ACC

The Autodesk Construction Cloud MCP lets your AI agent manage complex construction projects using natural conversation. Instead of navigating multiple ACC tabs to check file metadata, audit project assets, or track open issues, you simply ask for the data. It connects everything—from initial BIM models to final site documentation—into a single chat interface.

A+ Quality Score 100/100

bim | construction-management | file-metadata | issue-tracking | project-coordination | asset-management

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/autodesk-construction-cloud

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.

Autodesk Construction Cloud MCP

10 tools available
Cloud-hosted on Vinkius

This MCP connects your AI agent directly into the Autodesk Construction Cloud (ACC) environment. You can manage massive construction projects using plain conversation, eliminating the need to manually switch between hubs or open complex data structures. Need to know what files exist in the structural designs folder? Just ask. Want to track down an issue reported last week that's stalled a phase gate? Your agent finds it. The system handles everything from listing all accessible project hubs across your organization to giving you full details on specific assets, like HVAC units or steel framing. It lets field engineers check asset status on site tablets and lets VDC leads explore file metadata without ever opening the main ACC portal. Because this integration runs through Vinkius, you get one connection point that gives your AI agent access to thousands of other enterprise tools, keeping all your project data in one place.

Core Capabilities

01 — Audit and list accessible construction hubs

Quickly find and review all the major project hubs available within your organization's Autodesk profile.

02 — Navigate file structures and check metadata

Traverse complex folder paths, listing contents or inspecting technical details for any file type (like DWG or RVT).

03 — Manage project issues and defects

List current open issues in a project, get full reports on specific problems, or create a new issue right through the agent chat.

04 — Track physical assets on site

Retrieve detailed information about construction equipment and components, or list all assets within a specified project scope.

05 — Get overall project status reports

Fetch core details for an entire project, giving you a snapshot of its current phase and key milestones.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/autodesk-construction-cloud** — connect your AI agent in three steps.

01 Subscribe to this MCP on Vinkius. You'll need your Autodesk APS Client ID and Client Secret keys.

02 Connect those credentials within your preferred AI client, like Claude or Cursor. This authorizes the agent to read and write data in ACC.

03 Start talking to your agent. Ask it things like, 'What are the top-level folders for the hospital wing?' or 'List all open issues for Phase 2.' The MCP executes the call and returns clean, actionable results.

The bottom line is that you treat a massive, enterprise project management platform like a simple chat window. You ask the question; your agent handles the complexity of the backend data calls.

Built For

This MCP is built for people whose job involves coordinating complex physical builds: Project Managers, VDC Leads, and Field Engineers. If you spend time switching between ACC, SharePoint, and Excel just to get a status update or verify an asset number, this is for you.

Project Manager

You need instant visibility into project health. You'll use the MCP to list open issues across multiple phases, check if milestones are being met, and audit overall project progress without clicking through dashboards.

VDC & BIM Lead

Your job is managing data integrity. You'll use the MCP to explore detailed file structures—checking metadata on Revit models or listing folder contents—straight from your chat interface, saving hours of manual navigation.

Field Engineer

You need actionable information in the field. The MCP lets you quickly check specific asset details (like serial numbers or installation dates) and update issue statuses immediately, no matter what device you're on.

What Changes When You Connect

01 Eliminate manual data hunting. You can list all projects using the `list_projects` tool, instantly seeing every active build site without having to navigate the web interface.

02 Improve asset accountability. Instead of guessing where a component is documented, use `get_asset_details` to pull precise specs and location records for any piece of equipment.

03 Faster issue resolution. Your agent can track problems by running `list_issues`, giving you an immediate overview of every defect across the site, which saves time compared to checking multiple project dashboards.

04 Better data governance. Use `list_folder_contents` to audit a folder's entire history, ensuring critical documents haven't been misplaced or deleted from the correct location.

05 Full visibility into scope. The MCP lets you get general status updates using `get_project_details`, keeping everyone aligned on whether the project is in the design phase or ready for construction.

Real-World Applications

Comparing BIM models across multiple sites

A PM asks, 'List all accessible hubs.' The agent responds with a list of five active projects. They then ask the agent to retrieve project details for each one, allowing them to compare current status reports side-by-side in seconds.

Finding misplaced structural drawings

A VDC Lead asks the agent to 'list top folders' within a project. The agent returns the folder structure, and then the lead asks it to list file contents inside the 'Structural Designs' folder, instantly finding the exact plan ID they needed.

Documenting a new field defect

A Field Engineer uses the MCP to run `list_issues` first, confirming no existing report for a specific problem. Then, they use `create_issue`, documenting the fault with all necessary context and assigning it to the right team immediately.

Verifying equipment inventory before handover

The agent lists all construction assets in the final project phase using `list_assets`. The engineer then selects a specific asset ID and runs `get_asset_details` to verify its model number, serial number, and maintenance history.

Patterns to Avoid

Treating the MCP like a database search engine

✗ AVOID

Trying to ask for complex relationships or 'why' questions (e.g., 'Why is Issue XYZ open?') without providing context, leading to vague error messages.

✓ INSTEAD

Always be specific about your scope. Instead of asking generally, run `list_issues` first to narrow down the problem set, then use `get_issue_details` on a specific issue ID for complete history.

Assuming file contents are always available

✗ AVOID

Asking the agent to 'summarize this huge CAD drawing' when it only has access to metadata or basic folder listings, resulting in a refusal.

✓ INSTEAD

Only ask for actions that list structure or data. Use `list_folder_contents` to confirm file types first, then use your local software client on the confirmed file.

Over-relying on listing all hubs

✗ AVOID

Just asking 'What projects are available?' without specifying a hub or region, causing the agent to dump hundreds of irrelevant project names.

✓ INSTEAD

Always narrow your search. First, use `list_hubs` to confirm the correct operational area, then run `list_projects` specifically within that confirmed hub.

The Right Fit

Use this MCP if you need a single chat interface for coordinating physical construction data—think asset tracking, file metadata, and issue logs. It excels at listing, auditing, and retrieving specific records (like using `list_assets` or checking project details). Don't use it if your primary task is creating complex financial reports or modeling physics; this MCP deals with existing BIM/ACC data. If you only need to write a simple email update, don't bother connecting it.

But if you are in the middle of resolving site conflicts, managing file versions, or verifying equipment lists, this MCP is non-negotiable.

Managing Autodesk Construction Cloud Projects with the ACC MCP for AI Agents

Right now, coordinating a project means jumping between hubs, opening dozens of folders to check file versions, and manually cross-referencing asset tags against physical locations. You spend hours clicking through tabs just to gather context for a status meeting.

With this MCP connected, you talk to your agent. You ask it to list the top-level folders in the mechanical system section, or audit all open issues across three different phases. The agent executes the calls and hands you clean data instantly. It’s like having an assistant who lives inside ACC and knows where every single file is.

Autodesk Construction Cloud MCP for AI Agents: Improving BIM Data Workflow

The tedious manual steps include generating a comprehensive asset inventory, which requires opening the project, finding the assets tab, and running reports. Then, you have to export that list and cross-reference it against your maintenance tracking sheet.

Now, you simply prompt the agent: 'List all high-pressure pumps installed in the North Wing.' The MCP runs `list_assets`, pulls the data, and hands you a formatted table with exactly what you need. It cuts out every intermediate click.

Autodesk Construction Cloud: 10 Tools for Project Data Retrieval

Use these tools to list project hubs, audit folder contents, manage open issues, and retrieve specific details on construction assets directly through your AI agent.

#	TOOL	DESCRIPTION
01	`create_issue`	Allows the AI agent to generate a brand new construction defect or problem report in an active project.
02	`get_asset_details`	Retrieves all technical and location details for one specific piece of tracked equipment or building component.
03	`get_issue_details`	Pulls a complete history, including assigned parties and due dates, for an existing reported issue.
04	`get_project_details`	Fetches general information about a project, such as its start date, budget codes, or current phase status.
05	`list_assets`	Generates a comprehensive list of all tracked assets within a specific project scope.
06	`list_folder_contents`	Scans and lists every file and subfolder contained inside a designated directory path.
07	`list_hubs`	Provides an inventory of all major operational hubs that are accessible across your entire organizational account.
08	`list_issues`	Generates a list of all currently open or resolved issues for a given project.
09	`list_projects`	Displays a catalog of projects available within a specific operational hub.
10	`list_top_folders`	Identifies and lists the main, top-level organizational folders inside a project's document directory.

See It in Action

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

U What are the open issues for 'Hospital Renovation'?

Open Issues Report: Hospital Renovation

ISSUE ID	DESCRIPTION	STATUS	ASSIGNED TO
INC-401	HVAC Ducting Conflict (Level 3)	Open	MEP Team
SAFE-212	Safety Railing Missing (East Wing)	Blocked	Site Supervisor

There are 5 open issues total. Would you like full details on the HVAC conflict? It requires a revised duct run from the structural team.

U Show me all projects in my hub.

Hub: Enterprise HQ

Active Projects:

- High-Rise Phase 1 (Status: In Progress)
- Subdivision Infrastructure (Status: Planning)
- Hospital Renovation (Status: Remediation)
- Warehouse Expansion (Status: Pending Review)

U What files are in the Structural Designs folder?

Folder Contents: Structural Designs

Found 3 items:

- `Foundation_Plan.rvt` : Revit Model File (Metadata available)
- `Steel_Framing_Detail.dwg` : Drawing file
- `Load_Calculations.pdf` : PDF document

Frequently Asked Questions

01 **How do I use the Autodesk Construction Cloud MCP when I’m on a job site?**

You can run queries to check asset details or list open issues using your mobile device with any compatible AI client. It keeps you away from needing access to multiple, complex web portals.

02 **Can the Autodesk Construction Cloud MCP help me compare project statuses?**

Yes. You can request details on multiple projects in a single prompt, allowing your agent to pull together status reports and key metrics for easy comparison.

03 **What if I need to add an issue but don’t know the ID number?**

You don't. Just describe the defect you found—what it is, where it is, and who reported it—and the MCP will use your natural language description to correctly create the new record.

04 **Is this MCP better than just using the ACC web interface?**

It's faster. Instead of clicking through five different tabs to get a list, you ask for it once. The AI agent summarizes and structures the raw data into an actionable format immediately.

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 `"autodesk-construction-cloud": { "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

Autodesk Construction Cloud 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Autodesk Construction Cloud. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Autodesk Construction Cloud MCP
Server ID	`019d7555-dd92-7175-a120-45a9b9286de9`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/mcp/autodesk-construction-cloud.