MCP SERVER | NO CODE | CLOUD HOSTED

Maxar Satellite Imagery MCP

Automate high-resolution earth data acquisition and ordering.

Maxar Satellite Imagery connects you to high-resolution earth intelligence, letting your AI client search massive discovery catalogs and manage data orders without leaving your workflow. You can pinpoint specific regions using spatial bounding boxes, check for available multispectral or panchromatic imagery, and retrieve the exact endpoints needed for visualization in any GIS application.

A+ Quality Score 100/100

satellite-imagery | gis | remote-sensing | geospatial-data | earth-observation

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vinkius.com/mcp/maxar-satellite-imagery

SCAN TO VIEW

The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

Maxar (Satellite Imagery) MCP

4 tools available
Cloud-hosted on Vinkius

Maxar is a primary source for high-resolution satellite imagery. This MCP lets you pull earth intelligence directly into your AI agent's workflow, automating the painful process of data acquisition. Instead of navigating complex vendor portals, your client handles the discovery and ordering steps automatically. You can query Maxar’s massive catalog by defining precise geographic areas and time frames. Once you find what you need, your agent doesn't stop there; it manages the entire delivery chain—from listing necessary order pipelines to requesting that specific data product be delivered right to your cloud storage. Need to visualize it? The MCP retrieves OGC-compliant base URLs for streaming services, which your GIS application can immediately consume. Because Vinkius hosts this connection, you don't need to learn a dozen different vendor APIs; you connect once and gain access to Maxar’s full suite of geospatial data tools.

Core Capabilities

01 — Discover available imagery

Search the entire catalog for satellite images using defined locations, time ranges, and specific sensor types.

02 — Request data product delivery

Submit formal requests to have specific multispectral or panchromatic image files delivered directly into your cloud storage.

03 — Get geospatial metadata

Retrieve detailed technical information for Analysis Ready Data (ARD) tiles, helping you understand the data's processing and format.

04 — Obtain streaming URLs

Fetch base Uniform Resource Locator (URL) strings necessary to visualize imagery in specialized mapping applications or custom dashboards.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/maxar-satellite-imagery** — connect your AI agent in three steps.

01 Subscribe to this MCP and provide your Maxar Client ID and Client Secret credentials.

02 Your AI client uses these credentials to query the discovery service, narrowing down potential imagery based on user-provided location data and time filters.

03 The agent executes the next step—whether that's listing order pipelines or requesting a specific data product delivery—and returns actionable URLs or metadata to your workflow.

The bottom line is you automate the entire lifecycle of finding, ordering, and preparing high-resolution satellite data without manual portal hopping.

Built For

This MCP is for anyone whose job requires knowing what happened on the ground from space. It targets analysts who spend too much time manually searching multiple vendor portals or developers building applications that need reliable, high-quality geospatial feeds.

Geospatial Analyst

Needs to quickly find and inspect imagery for a specific region of interest, verifying cloud cover and sensor type before starting analysis.

Data Scientist

Must automate the discovery and ordering of massive training datasets—like multispectral images—for machine learning models without manual data transfer.

GIS Developer

Builds custom mapping applications that require reliable base URLs for streaming WMS or WMTS tile services, pulling the endpoints directly into code.

What Changes When You Connect

01 Stop manually hopping between vendor websites. By using the search_discovery tool, your agent finds imagery in minutes using only coordinates and dates, eliminating hours of manual catalog browsing.

02 Never lose a data asset again. The create_order tool automates the delivery process, ensuring that once you find the perfect image, it gets placed directly into your cloud storage for immediate use.

03 Build better maps faster. Instead of needing an API key and endpoint documentation, get_mws_endpoints provides the exact base URLs required to power custom tile layers in any mapping application.

04 Understand data quality instantly. When you run metadata checks via ARD tile retrieval, you confirm if the imagery is multispectral or panchromatic—details critical for your models but painful to track manually.

05 Streamline complex workflows. The list_order_pipelines tool gives visibility into Maxar's ordering requirements upfront, preventing failed data requests and saving significant time.

Real-World Applications

Assessing disaster impact across a wide area

A humanitarian organization needs to check the extent of damage in three different states last month. They ask their agent to search_discovery using bounding boxes for all three areas and filter by date, instantly compiling a list of available images from multiple locations.

Training an AI model on rare land cover types

A climate scientist needs thousands of high-resolution multispectral samples. They use the agent to review all potential order pipelines and then execute create_order for specific data products, automatically populating their training dataset in a single batch run.

Building a live-updating public dashboard

A city planner needs a real-time visualization feed of zoning changes. They use get_mws_endpoints to grab the WMS/WMTS base URLs, allowing their application to pull map tiles without manual intervention.

Validating data sources for research

A university researcher needs to know exactly how a historical tile was processed. They use the metadata retrieval function on a specific tile ID to confirm its orthorectification status and sensor details, ensuring scientific integrity.

Patterns to Avoid

Manually cross-referencing data specs

✗ AVOID

The user downloads an image and then has to go to a separate documentation page to figure out if it's 8-band or multispectral.

✓ INSTEAD

Always use the metadata retrieval function. It provides immediate, comprehensive details about the tile, confirming band count and processing status in one step.

Guessing the required order steps

✗ AVOID

A user submits a massive data request only to find out later that they missed a prerequisite pipeline step, causing the entire job to fail.

✓ INSTEAD

Before creating an order, run list_order_pipelines. This shows you exactly what workflow is needed for Maxar, preventing failed requests.

Treating imagery endpoints as static links

✗ AVOID

Hardcoding a WMS URL into a map application that eventually breaks when the service updates its secure credentials.

✓ INSTEAD

Always use get_mws_endpoints. This retrieves the current, valid OGC-compliant base URLs that your agent can manage and update for you.

The Right Fit

Use this MCP if your primary goal is to automate data acquisition from a single source of truth: Maxar's catalog. You need an AI workflow that handles discovery, validation, ordering, and visualization endpoints all in one place. Don't use this if you only need simple search results without the ability to order or stream; then, a basic search API might suffice. Similarly, don't use it if your data comes from multiple, disparate sources (e.g., combining Maxar with Sentinel); for that, you'd need an orchestration tool like

LangChain. But if your core pain point is efficiently getting the right high-resolution imagery *from* Maxar and into a usable format, this MCP is what you need.

The Pain of Geospatial Data Discovery

Today, finding one image often means logging into a portal, manually drawing a bounding box on a map interface, and then navigating through multiple tabs to see the available sensor types (WorldView-3, etc.). If you need to check five different sites across three time periods, that's hours of clicking, cross-referencing dates, and copying coordinates. You end up with a messy spreadsheet of potential assets and no guaranteed way to get them.

With this MCP, the process is conversational. Your agent handles all those manual steps behind the scenes. It accepts your location boundaries and date range as natural language input, runs the search_discovery tool instantly, and presents you only with the best options—complete with metadata on sensor type and cloud cover.

Getting Data into Your Cloud Storage

The biggest manual step is always the delivery. You find the perfect image, but then you have to go back to a separate section of the portal just to figure out how to initiate an order. You fill in forms, confirm pipelines, and wait for confirmation emails—a slow, unreliable process that breaks your workflow momentum.

Now, running create_order automates the entire request lifecycle. Your agent manages the necessary list_order_pipelines checks, submits the data product request instantly, and ensures the asset is routed directly to your specified cloud storage bucket. The image moves from potential idea to usable file with zero manual intervention.

Maxar (Satellite Imagery) with 4 Tools

These four tools allow you to perform every step of the geospatial workflow: from searching a location on a map, through managing complex order requirements, to finally retrieving streamable endpoints for your application.

#	TOOL	DESCRIPTION
01	`create_order`	Submits a request for specific data products, directing the final imagery files to your designated cloud storage bucket.
02	`get_mws_endpoints`	Fetches the base web service URLs (WMS/WMTS) needed for visualizing imagery in external GIS tools.
03	`list_order_pipelines`	Retrieves the list of established processes or workflows required to successfully order and receive data from Maxar.
04	`search_discovery`	Searches Maxar's catalog to find available satellite images based on specified location boundaries and time frames.

See It in Action

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

U Search for available satellite imagery in the bbox [-122.5, 37.7, -122.3, 37.8] from the last 6 months.

I've searched the Maxar Discovery Service. I found several high-quality images from the WV03_VNIR collection. The most recent one was captured on 2024-05-15 with 0% cloud cover. Would you like the full metadata for this item?

U Get the streaming endpoints for Maxar Web Services.

I have retrieved the OGC endpoints for you. You can use the following base URLs for streaming: WMS: `https://securewatch.maxar.com/mapservice/wms...` and WMTS: `https://securewatch.maxar.com/mapservice/wmts...`. You will need to append your credentials to these URLs for use in GIS tools.

U Retrieve metadata for the ARD tile with ID '1234567890'.

Fetching ARD tile metadata... Tile '1234567890' is part of the 'Bay Area' dataset, processed on 2024-01-10. It includes 8-band multispectral data and has been orthorectified to UTM Zone 10N.

Frequently Asked Questions

01 **How do I start searching for imagery using Maxar Satellite Imagery MCP?**

You begin by invoking the search_discovery tool, providing your geographic boundaries (bbox) and a time range. The agent will return a list of available collections that match your criteria.

02 **What is the difference between create_order and searching with Maxar Satellite Imagery MCP?**

search_discovery only finds what's available; it doesn't acquire it. You use create_order when you have identified a specific image set and need to initiate the formal request for that data product delivery.

03 **How do I get streaming endpoints using Maxar Satellite Imagery MCP?**

You call the get_mws_endpoints tool. This fetches the base WMS or WMTS URLs, which you then incorporate into your custom mapping application code for live visualization.

04 **Do I need to worry about ordering pipelines when using Maxar Satellite Imagery MCP?**

Yes, it's best practice. You should use list_order_pipelines first. This ensures your agent knows the required steps and prerequisites for a successful data delivery.

05 **Can I find metadata for an ARD tile with Maxar Satellite Imagery MCP?**

Yes, detailed metadata retrieval is possible using the appropriate function call. You'll get technical facts like multispectral band count and orthorectification details.

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 `"maxar-satellite-imagery": { "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

Maxar (Satellite Imagery) 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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