MCP SERVER | NO CODE | CLOUD HOSTED

Calendar Converter MCP for AI Agents

Cross-Cultural Date Conversion and Historical Timekeeping

The Calendar Converter MCP handles date conversions across more than 15 distinct systems, including Gregorian, Chinese Zodiac, Persian, and Japanese Era calendars. It provides a universal method for translating time between cultural or historical dating standards using Unix timestamps.

A+ Quality Score 100/100

calendar | conversion | unix | history | astronomy

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vinkius.com/mcp/calendar-converter

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.

Calendar Converter MCP

3 tools available
Cloud-hosted on Vinkius

Working with dates from different cultures can be a nightmare. Are you tracking ancient texts that mix lunar and solar cycles? Do you need to reconcile a modern Western schedule with an Asian festival date? This MCP solves the problem of date ambiguity by providing precise, bidirectional conversions across over fifteen calendar systems.

It doesn't just change numbers; it bridges gaps in timekeeping. By using Unix timestamps as a universal anchor, your AI client can pinpoint exactly what day and era a historical record refers to, regardless of whether that source used the Julian, Hebrew, or Chinese Zodiac calendar. You gain total temporal accuracy.

When you connect this MCP via Vinkius, your agent gains instant access to sophisticated date logic. Need to know the Chinese zodiac animal for a specific year? Want to convert a date from Persian Solar Hijri to a simple Gregorian date, including hours and minutes? This connector handles it all with reliable metadata retrieval. You stop guessing about historical timekeeping and start getting actionable, precise dates.

Core Capabilities

01 — Determine a universal time stamp from any date

You can convert a date given in any supported calendar system (e.g., Chinese, Persian) into its specific Unix timestamp number.

02 — Map one timestamp to multiple calendars

Takes one universal Unix timestamp and outputs the corresponding dates for several requested calendar systems at once.

03 — Get cultural context metadata for a year

Retrieves specific cultural metadata, like the Zodiac animal or Imperial Era name, tied to a given calendar year.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/calendar-converter** — connect your AI agent in three steps.

01 Start by telling your agent which date and calendar system you are working with (e.g., 'January 15, 1920 in the Hebrew calendar').

02 Your AI client sends this data to the MCP, which first converts it into a universal Unix timestamp.

03 Finally, the MCP uses that single timestamp to generate and return the corresponding date details across all the calendars you requested.

The bottom line is: instead of looking up conversion tables manually, your agent runs one query and gets multiple, cross-referenced dates back instantly.

Built For

This MCP helps researchers who deal with historical or global records. If your work requires reconciling different dating methods—say, comparing a Chinese festival date to a modern Western schedule—you need this. It's perfect for anyone whose job involves analyzing data from multiple cultures.

Historical Researcher

Uses the MCP to translate dates found in old documents, ensuring that lunar or imperial dating systems are correctly aligned with modern calendars.

Cultural Content Manager

Determines the correct date and associated cultural context (like zodiac signs or festivals) for global marketing campaigns spanning multiple regions.

Archival Specialist

Converts dates from diverse source materials—such as religious texts, regional records, or diplomatic correspondence—into a standardized format.

What Changes When You Connect

01 Stop guessing about historical dates. The `convert_to_unix` tool gives you a single, universal timestamp anchor, eliminating ambiguity across any calendar system.

02 Get an instant overview of any date using `expand_unix`. You don't have to run separate queries for Gregorian, Persian, and Chinese calendars—it all happens in one call.

03 Identify cultural context immediately. Use `get_calendar_context` to find the specific Zodiac animal or Imperial Era name for a year, adding deep detail to your research notes.

04 Works with granular precision. It handles time down to the hour, minute, and second, making it reliable for accurate event scheduling across multiple zones.

05 Saves hours of manual cross-referencing. Instead of consulting complex historical charts, you simply ask your agent for a conversion, and it delivers the result.

Real-World Applications

Reconciling Ancient Texts

A researcher finds an artifact referencing a date in the Japanese Era. Instead of spending days cross-referencing historical almanacs, they ask their agent to use the Calendar Converter MCP and instantly get the modern Gregorian equivalent.

Planning Global Festivals

A content manager needs to know when a specific Chinese festival falls relative to a Western holiday. They feed the start date into the tool, which uses `expand_unix` to show the overlap and timing across both calendar systems.

Standardizing Archival Records

An archivist has records spanning centuries using different local dating methods (e.g., Coptic, Julian). They use the MCP to convert every date into a standardized Unix timestamp for database entry and comparison.

Understanding Historical Cycles

A student needs to know what major historical cycles were active in 100 AD. Using `get_calendar_context`, the agent quickly identifies not just the year, but also the ruling emperor's era name.

Patterns to Avoid

Using basic date formatting

✗ AVOID

Trying to convert a complex international date like 'Lunar New Year Day' using simple online converters that only support two calendar types.

✓ INSTEAD

Use the Calendar Converter MCP. It supports 15+ systems and can handle the complexity of lunisolar cycles, giving you reliable results with `expand_unix`.

Ignoring time zones

✗ AVOID

Converting a date without specifying the local time zone, leading to an off-by-one-day error in the final output.

✓ INSTEAD

Always provide full context (date and time) when using `convert_to_unix`. This ensures the universal timestamp is calculated correctly down to the minute.

Assuming all calendars are linear

✗ AVOID

Treating the Chinese Zodiac cycle as a simple annual progression, ignoring that certain eras might reset or shift based on specific historical events.

✓ INSTEAD

Rely on `get_calendar_context`. This tool provides deep metadata to confirm if the year is part of a known imperial era or cyclical pattern.

The Right Fit

Use this MCP when your project's core data involves dates from multiple, distinct calendar systems. If you are comparing historical texts, managing global event calendars, or building software that must account for cultural timekeeping variations (like lunisolar cycles), this tool is necessary. Don't use it if all your dates already adhere strictly to the Gregorian standard and you only need simple format changes—a basic date library will handle that fine. However, if you run into discrepancies involving Japanese Eras, Persian calendars, or ancient systems like the Coptic calendar, this MCP provides the depth required for accurate results.

Calendar Converter: Solving Cross-Cultural Date Discrepancies

Today, gathering data from multiple sources is tedious. You might have a dataset where some records use Western dates (Gregorian), while others reference an event by the Chinese Zodiac or the Japanese Imperial Era. Copying these into a single spreadsheet and trying to align them manually leads to massive time loss and high risk of error.

With this MCP, your agent reads all those disparate date formats—the Persian Solar Hijri dates, the Hebrew calendar entries, even Coptic records—and standardizes them instantly. You don't just get a converted date; you get a single point in universal time that makes every piece of data comparable.

Calendar Converter: Mastering Historical Timekeeping

The biggest headache is the lack of a common reference point. When dealing with history, you can't just assume a date means the same thing across eras. You need to know if it refers to a specific reign or a cyclical pattern.

This MCP fixes that by using timestamps as the ultimate arbiter. It gives context beyond just year/month/day, helping you identify the precise cultural period—like knowing the ruling dynasty's name in the Japanese calendar for any given date.

3 Tools: Global Date Conversion and Timekeeping Utilities

These tools allow you to standardize time by converting any date into a universal Unix timestamp or retrieving cultural metadata across multiple calendars.

#	TOOL	DESCRIPTION
01	convert_to_unix	Turns a date given in any supported calendar system into its specific Unix timestamp number.
02	expand_unix	Takes one Unix timestamp and outputs the corresponding dates for multiple different calendars you request.
03	get_calendar_context	Retrieves specific cultural metadata, like the Zodiac animal or Imperial Era name, associated with a given calendar year.

See It in Action

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

U What was the corresponding Gregorian date when Lunar New Year fell on January 23rd in the Chinese calendar?

Conversion Details:

- **Input Calendar:** Chinese Lunar
- **Input Date:** Jan 23 (Year X)
- **Unix Timestamp:** 1674307200

Expansion Results:

CALENDAR SYSTEM	DATE FOUND
Gregorian	January 23, 2023
Persian (Solar Hijri)	Esfand 15, 1401
Hebrew	Nisan 16, 5783

This timestamp confirms the date across three major systems.

U What is the Zodiac animal for the year 2024 and what was the ruling Imperial Era in Japan?

Metadata Retrieval:

- **Year:** 2024
- **Zodiac Animal (Chinese):** Dragon 🐉
- **Japanese Calendar Context:** Reiwa 6 (令和六年)

This tells you the cultural context for that year, which is crucial when cross-referencing records.

U Convert 'October 10th' from the Gregorian calendar to Unix time and also show it in Persian Solar Hijri.

Conversion Result:

- **Input Date (Gregorian):** October 10, [Current Year]
- **Unix Timestamp:** 1696953600

Expansion View:

CALENDAR SYSTEM	DATE
Gregorian	October 10, [Year]
Persian (Solar Hijri)	Aban 20, [Year]

Your agent now has a reliable reference for two vastly different systems.

Frequently Asked Questions

01 **How does the Calendar Converter MCP help me compare dates from Chinese and Western calendars?**

It gives you a single common reference point. Instead of converting manually, your agent uses the tool to map both dates to a universal Unix timestamp, making direct comparison simple and accurate.

02 **Can I use Calendar Converter for historical records that include zodiac signs?**

Yes. You can use the MCP's context retrieval tools to find metadata like the Chinese Zodiac animal for any given year, giving you cultural detail alongside the date itself.

03 **What kind of calendars does this Calendar Converter support besides Gregorian?**

It supports over fifteen systems. This includes Persian (Solar Hijri), Japanese Era, Hebrew, Chinese Lunar, and others, ensuring broad compatibility for global projects.

04 **Is the date conversion accurate down to minutes and seconds?**

Yes. The MCP provides precise timestamping that accounts for hours, minutes, and seconds across all supported calendar systems, which is essential for scheduling or scientific work.

05 **Does Calendar Converter help me understand historical time periods?**

Absolutely. It retrieves metadata like the Imperial Era name in various cultures, letting you know exactly what political or cultural period a recorded date belongs to.

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 `"calendar-converter": { "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

Calendar Converter 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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