

Vítejte na TechClub webinarů AI pro síťáře

Následující Tech Club webinar:

6.10.2026 Cisco Full Stack AI DC

Přednášející: Miloš Pavlík



Následující webinar



Tech Club portál



Tech Club Webex Space



Tech Club Spotify

AI pro sítě

Jaroslav Martan

22. září 2026



Cisco AI - Úlohy

- **Datová suverenita** – vlastní data, vlastní práce s AI (modely, processing)
- **Data Science** – machine learning
- **Agentic** – AI Canvas, business-to-consumer (chatbot, voicebot)
- **Aplikovaná AI v IT (AIOps)** – sítě (Cloud Control), bezpečnost, collaboration... asistenti
- **Součást produktu vs. vlastní řešení** – Cisco AI Assistants, Open Source
- AI-driven Company

AI That Revolutionizes Network Operations



Empower IT & NetOps



Streamlined Operations



Instant Intelligence

Different AI “Hats” for Network Engineers



User of AI Tools



**Builder of AI
Tools/Infrastructure**



**User of Custom Tools
(no AI)**

Agenda

For Users

- 1 AI Assistant Deep Agent
- 2 Cisco Cloud Control
dCloud demo

For Builders

- 3 Cisco MCP Servers
- 4 Cisco Time Series Model

AgenticOps

Cross-domain

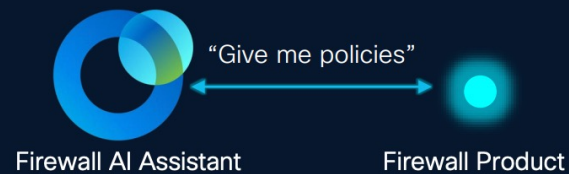
Multiplayer

Purpose-built models

AI Assistants use skills to enable intra-product experience

Skills

- **Definition:** Capabilities of an AI Assistant for the local product it's integrated with.



Documentation Summarization

Troubleshooting

Optimization

Configuration

Individual AI Assistants Are Integrated Across Cisco



Security

Firewall, Secure Access, Hypershield, Duo, Identity Intelligence, Splunk Enterprise Security, ISE



Networking

Meraki, Catalyst Center, Catalyst SD-WAN, ThousandEyes, Intersight, Mobility Services



Observability

Splunk Observability (Cloud, ITSI, AppDynamics)



Data

Splunk Platform



Collaboration

Webex Control Hub



Service Ops

Customer Experience

Meraki Demo

<https://app.vidcast.io/share/dfff1bf6-503d-4a85-9c51-b72fae62c8c3>

-  Network Home >
-  Network-wide >
-  Assurance >
-  Wireless >
-  Cameras >
-  Organization >
-  Security >
-  Automation >
-  Find in Menu (⌘+K)

Overview

 Last day 

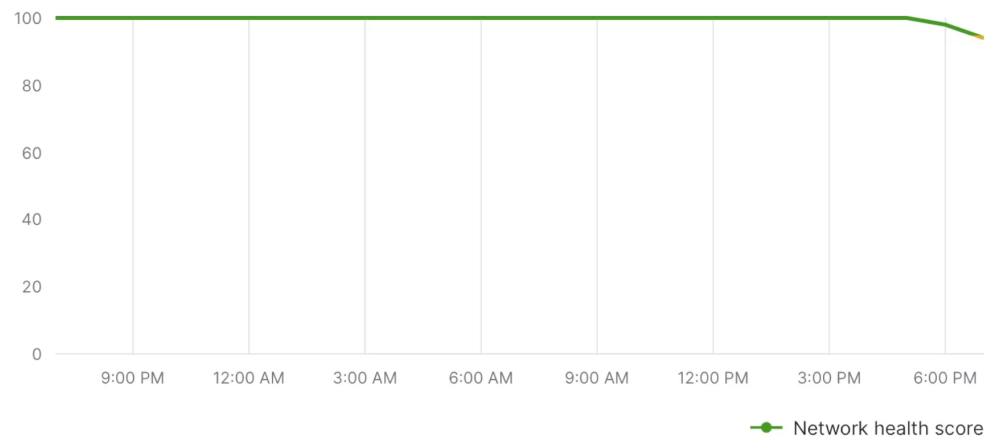
 **The Cisco AI Assistant is now available**
Get real-time insights, troubleshoot faster, and automate your network with Cisco AI Assistant. [Try the AI Assistant now](#)
To learn more, check out the [Learning hub](#) 

Network health score



Does the score feel right?  

[Learn about scores](#)



Clients 19 total

 100/100 0 pts last day

 **Wireless** 2 issues

100/100 +0 pts

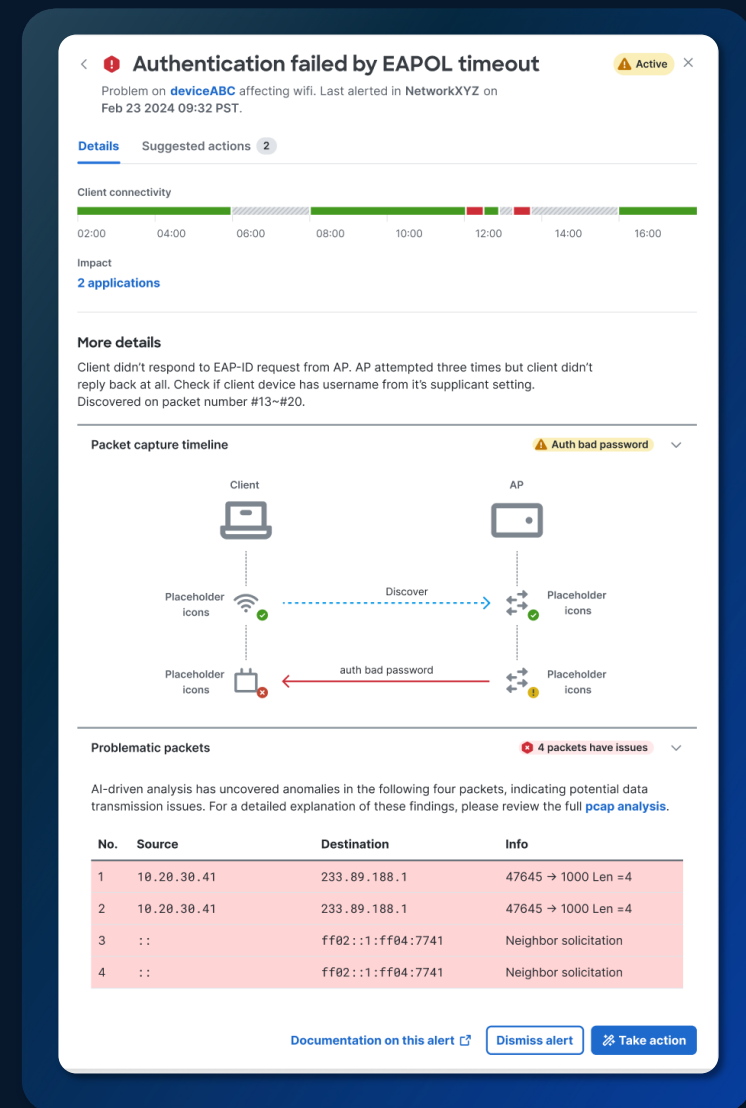
3 Clients impacted

Network devices

 Give feedback

AI Packet Analyzer

- **AI PCAP analyzer**
uses multi-modal AI models using contextualized PCAP model, Client events and configuration data
- **Intelligent capture**
automatically seize the moments of client failure and upload PCAP files to AI Cloud
- **AI PCAP model**
uses supervised fine-tuning and RLHF to analysis client packet exchanges
- **Generative AI**
translate & summarize dozens of PCAP exchanges into human-readable text

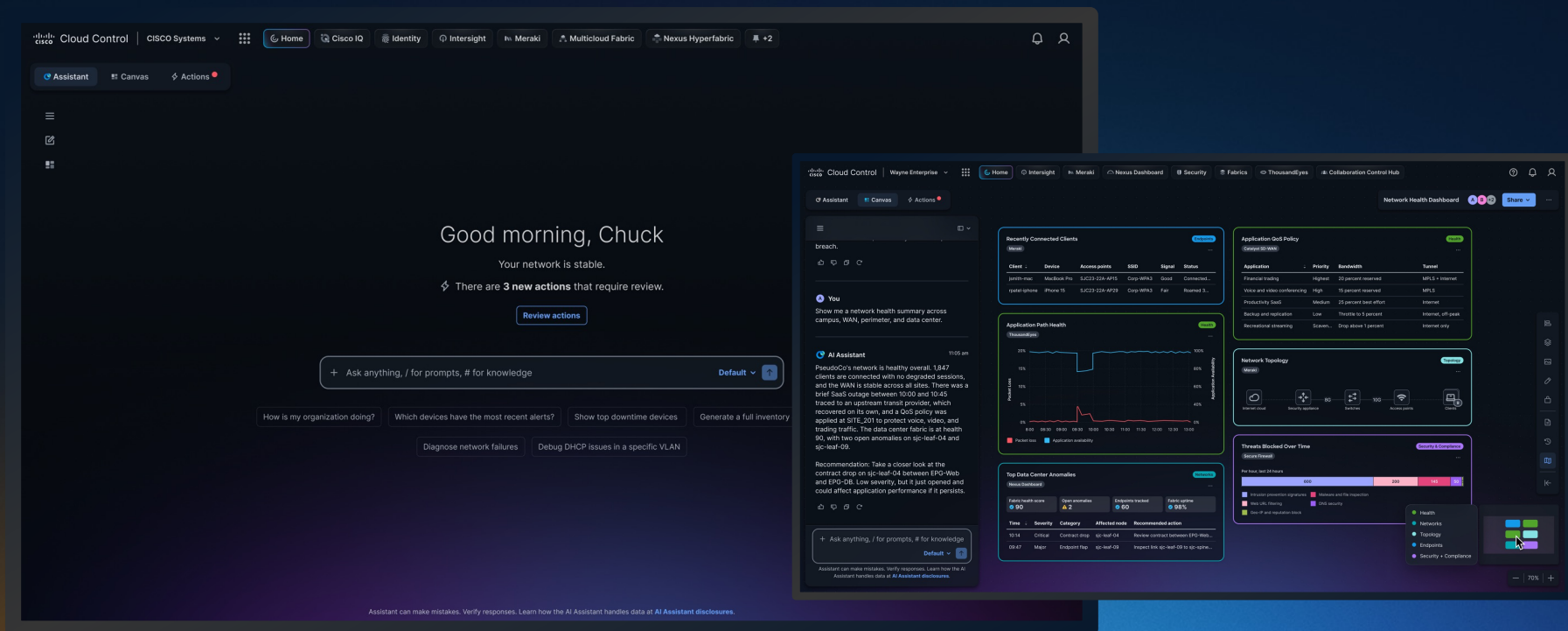


The logo for Cisco Cloud Control, featuring the text "Cisco Cloud Control" in a white, sans-serif font. The text is positioned on the left side of a dark blue background. To the right of the text, there is a vertical gradient bar that transitions from a dark blue at the top to a bright orange at the bottom, with intermediate colors of purple, pink, and red.

Cisco Cloud Control

Cisco Cloud Control with AI Canvas

The unified operations platform for AgenticOps



Cisco Cloud Control

The power of one

One login

Sign in once. See everything.

One inventory and topology

Every asset. See how it all connects, in real time.

One view for alerts

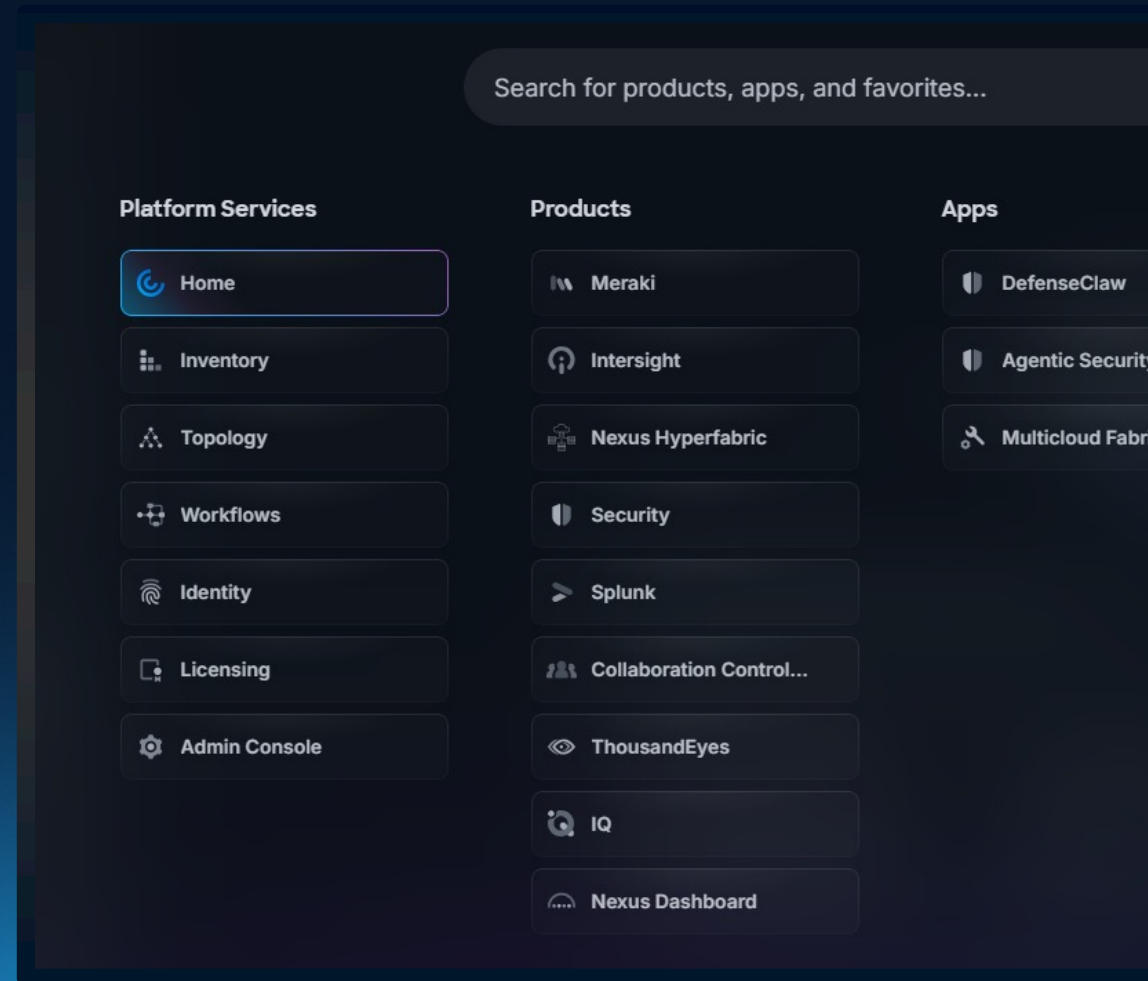
Actions correlates alerts across every product.

One assistant

Quick answers and tasks with AI Assistant.

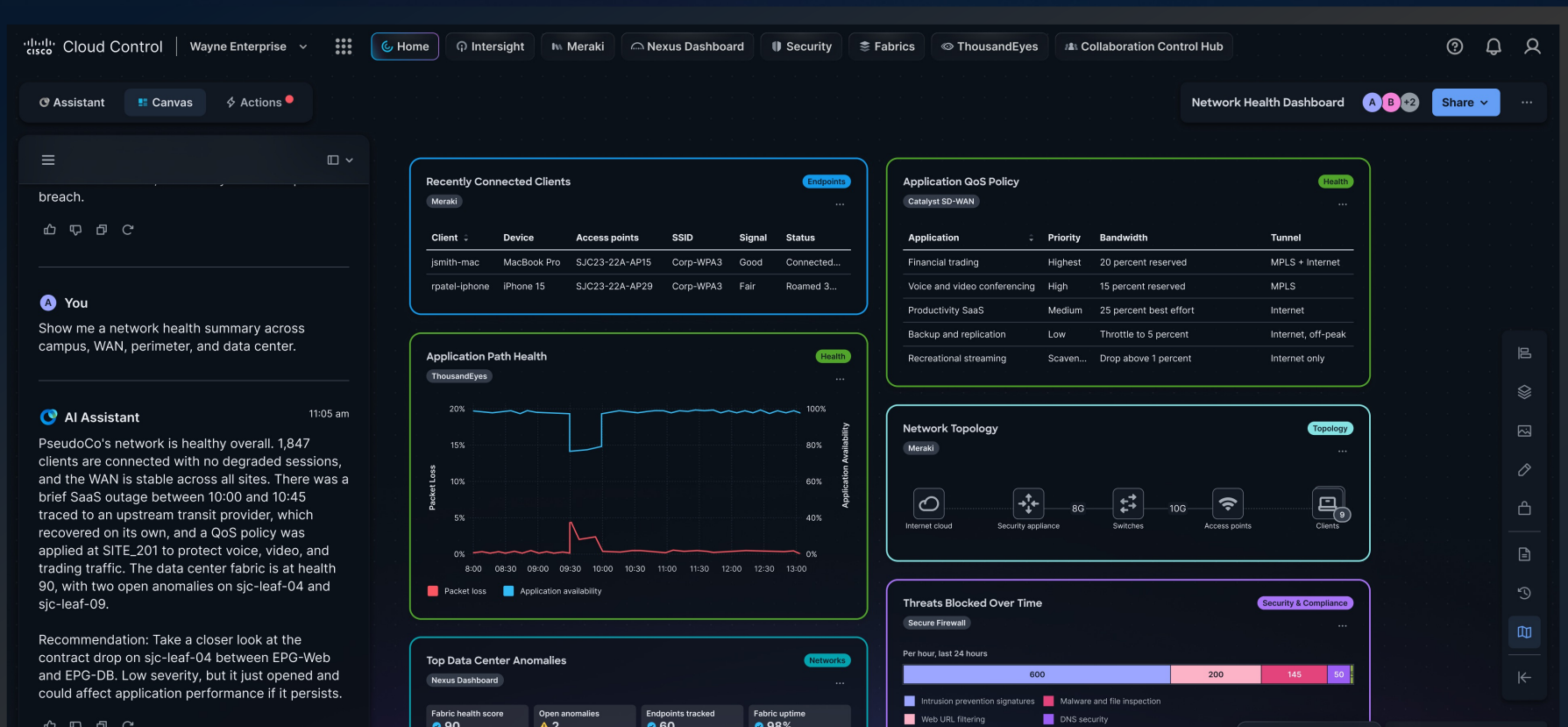
One agentic workspace

Investigate, execute and resolve with AI Canvas.



Cisco AI Canvas

The industry's first multiplayer workspace for cross-domain agentic operations



Cloud Control Demo

<https://app.vidcast.io/share/11fab082-df4e-4b29-9fb3-04c5d32b6b93>



Assistant

Canvas

Actions

Threads

Create new

Canvas overview

Today

How is the overall health of my Meraki networks?

Health & Availability (6)
Repeated critical one-way network video alerts affecting Webex on insoft device

Previous

08:37 09/18 Sam Ali

10:14 09/18 Sam Ali

where is the marketplace

WAN Health & Performance (1)

Security, Policy & Access (1)

Health & Availability (3)

QRコード決済・会員アプリ障害調査

C2 Communication Incident Investigat

東京拠点通信遅延の調査

02:57 09/18 Sam Ali

Good evening, Sam

Here are your top **3 actions** that require review.

Unreachable device

This action represents a critical-severity notification reported by Meraki.

Meraki

High interface utilization causing packet drops on SJC-NXOS1-Leaf2

On September 20, 2026, from 19:53 to 20:11 UTC, the SJC-NXOS1-Leaf2 device experienced high ingress/egre...

Nexus Dashboard

Repeated critical one-way network video alerts affecting Webex on insoft device

Between 10:55 UTC on September 13 and 05:40 UTC on September 16, 2026, the insoft device experienced multiple...

ThousandEyes

+ Which applications are consuming the most bandwidth in Secure Access?

Default





For Builders

MCP Background

What is Model Context Protocol (MCP)?

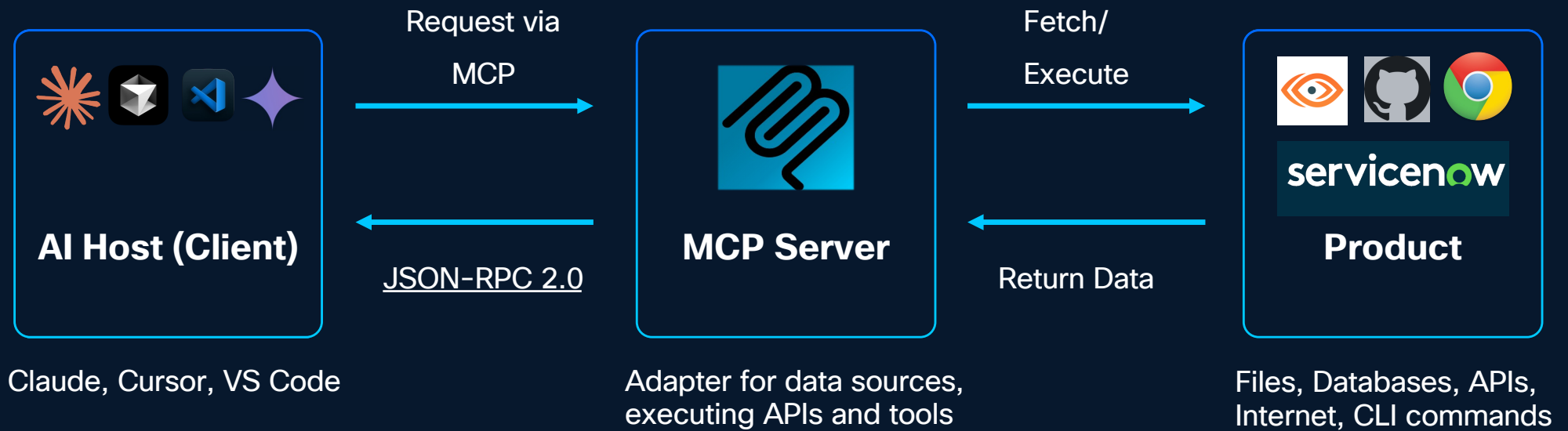
MCP provides a common language and structure for interactions, much like HTTP did for the web.

Lightweight protocol connecting AI agents to tools, APIs, databases, and filesystems

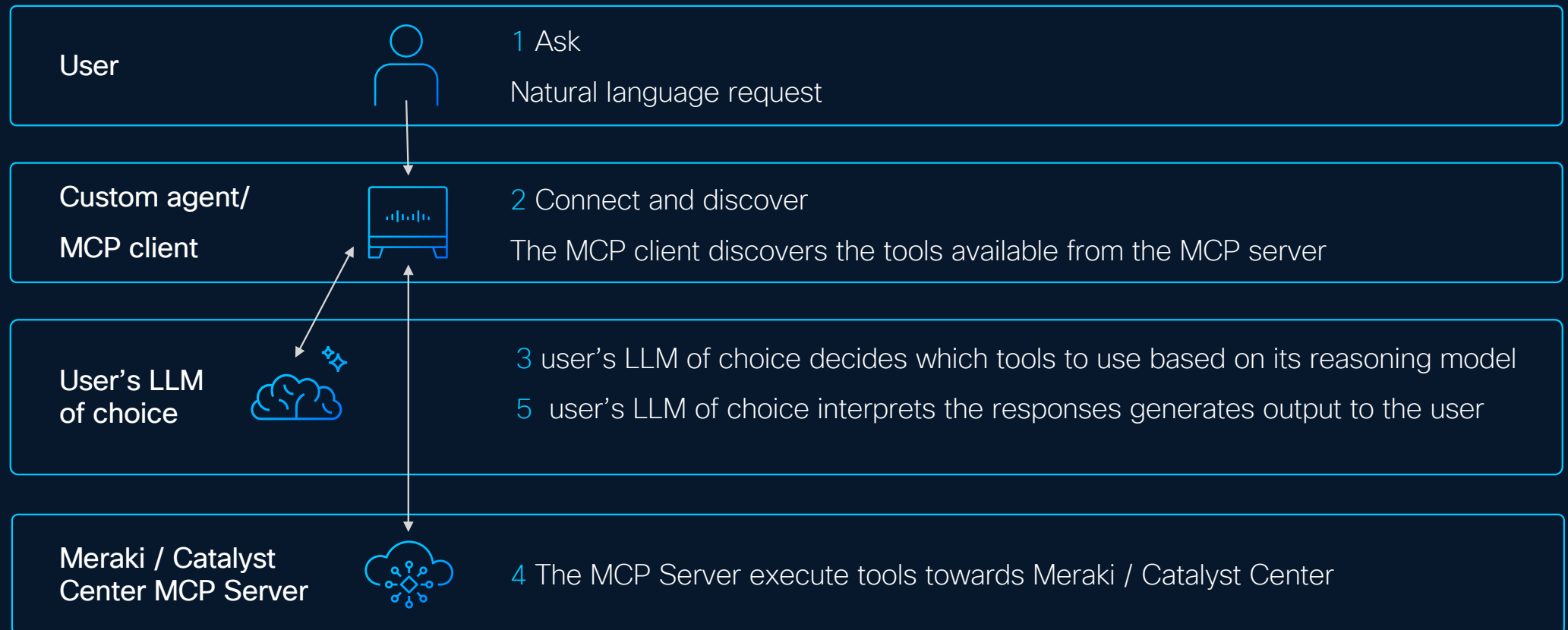
Secure, scalable client/server architecture for AI-powered workflows

Simplifies integration by providing a uniform interface to diverse infrastructure and operational tools

MCP Workflow

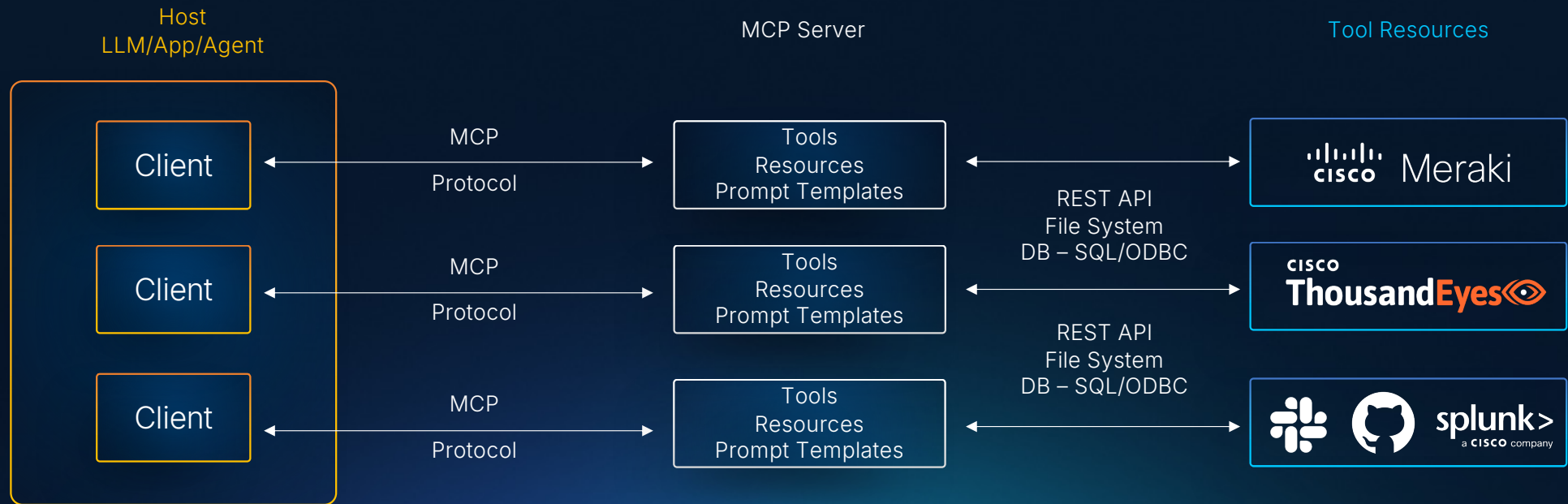


From intent to insight



MCP standardizes the client-server discovery, tool calls, and results –
allowing any standard LLM with MCP support to be used.

Model Context Protocol (MCP)



Click to edit Master title style

If the user needs to...	AI Assistant	MCP Server
Ask a question and get help understanding or troubleshooting their Meraki/Catalyst Center environment		
Work within the Meraki experience, without building or managing an AI integration		
Leverage Cisco Deep Network Model and purpose-built flows		
Use an approved private or self-managed LLM environment		
Build a custom AI assistant, copilot, report, or workflow that uses Meraki data		
Combine Meraki context with systems such as ITSM, security, documentation, or other network vendors		
Build an AI workflow in an on-premises, private, or air-gapped LLM environment		 Catalyst Center

Sample prompts

- *"Generate a switch port stability report across the organization. Find switch ports with link flaps, STP changes, high error rates, or excessive packet loss in the last 7 days. Show the top 10 switches and ports by instability count, identify recurring issues, and recommend what to investigate first".*
- *"Generate a wireless client experience report for the organization. Identify where clients had poor performance, including low SNR, high retries, roaming, DHCP, DNS, and authentication failures. Show the top 5 networks and access points by impacted client count, highlight failure patterns, and recommend how to improve reliability".*
- *"Generate an MX WAN health report across the organization. Identify WAN uplink degradation, failovers, packet loss, latency spikes, jitter, and VPN interruptions over the last 30 days. Show the top 5 networks by impact, identify recurring failover or brownout behavior, and recommend how to improve resiliency".*
- *"Generate a switching capacity report across the organization. Identify switches, uplinks, and ports approaching capacity based on utilization, packet drops, errors, PoE usage, and client density. Highlight congestion or power-exhaustion risk, and recommend where upgrades, rebalancing, or configuration changes are needed".*

Meraki MCP

<https://app.vidcast.io/share/98c9184b-badf-4f63-af84-83cac3f6bcf3>

Meraki MCP Server Overview

The What

- A public, secure MCP server to expose Meraki to any MCP-compliant AI assistant.
- Available as open-source, for organizations interested in customization.
- Enforces existing account permissions.
- Uniform way to plug AI models into existing tool-based infrastructure, enabling AI agents to discover, request, and invoke capabilities without custom code
- The MCP Server supports all read-only operations available via API, example flows include:
 - Troubleshooting
 - Custom reporting
 - Capacity planning
 - Compliance checks

Open Chat

[Show All Commands](#)

Find in Files

```
2026-09-20 18:20:50.253 [info] {"msg":"execute_api completed","extra":{"tool":"execute_api","capability_id":"getNetworkWirelessFailedConnections","outcome":"success","request_id":"31e0821a-3994-4afc-870e-7c5f4c5efc89"},"session_id":null}}
```

Chat

+

∨

⚙️

...

|

🗨️

✕

Sessions

🔄

🔍

🏠

📄

Tip: Use `/create-agent` to scaffold a custom agent for your workflow.

Describe what to build

+ Agent Auto Balance

Local Default permissions

Sample output



ThousandEyes MCP Tools

Core Monitoring & Investigation

- **List Tests** - View all configured tests (web apps, services, networks being monitored)
- **Get Test Details** - Retrieve detailed information about a specific test
- **List Events** - Find network and application problems within a time range
- **Get Event Details** - Deep dive into specific events with impacted targets, locations, and agents
- **List Alerts** - View triggered or cleared alerts
- **Get Alert Details** - Get comprehensive information about specific alerts
- **Search Outages** - Find network and application outages with various filters
- **Instant Tests** - Active troubleshooting run and rerun tests on demand
- **Create, Delete and Update Synthetic Tests** - Based on selected agents.
- **Get Connected Devices** - Comprehensive info for CDev

Advanced Analysis

- **Get Anomalies** - Detect metric anomalies in test data over time
- **Get Metrics** - Retrieve aggregated metrics for custom dashboards and reports

AI-Powered Skills

- **Troubleshooting** - Diagnose application and network issues
- **Views Explanation** - Explain specific test results and visualizations

Endpoint Monitoring

- **List Endpoint Agents and Tests** - List endpoint agents with filtering as well as tests
- **Get Endpoint Agent Metrics** - Time series data from endpoint agents (network, web, wireless, cellular metrics)

Network Path Analysis

- **Get Path Visualization** - See network paths and hop-by-hop routing information
- **Get Full Path Visualization** - Comprehensive path data for all agents and rounds
- **Get BGP Test Results** - BGP reachability and routing information
- **Get BGP Route Details** - Detailed AS path and routing information for specific prefixes

Account Management

- **Get Account Groups** - List available account groups

ThousandEyes MCP

<https://app.vidcast.io/share/09e98044-e0b8-4ab6-9213-420df2a41903>

← → mcp-demo

Chat

Sessions

- Meraki network issues for JMARTAN-M-6XYT
15 mins ago
- Meraki Home network access issues
1 day ago
- ThousandEyes tools overview
1 day ago

Tip: Use [/create-agent](#) to scaffold a custom agent for your workflow.

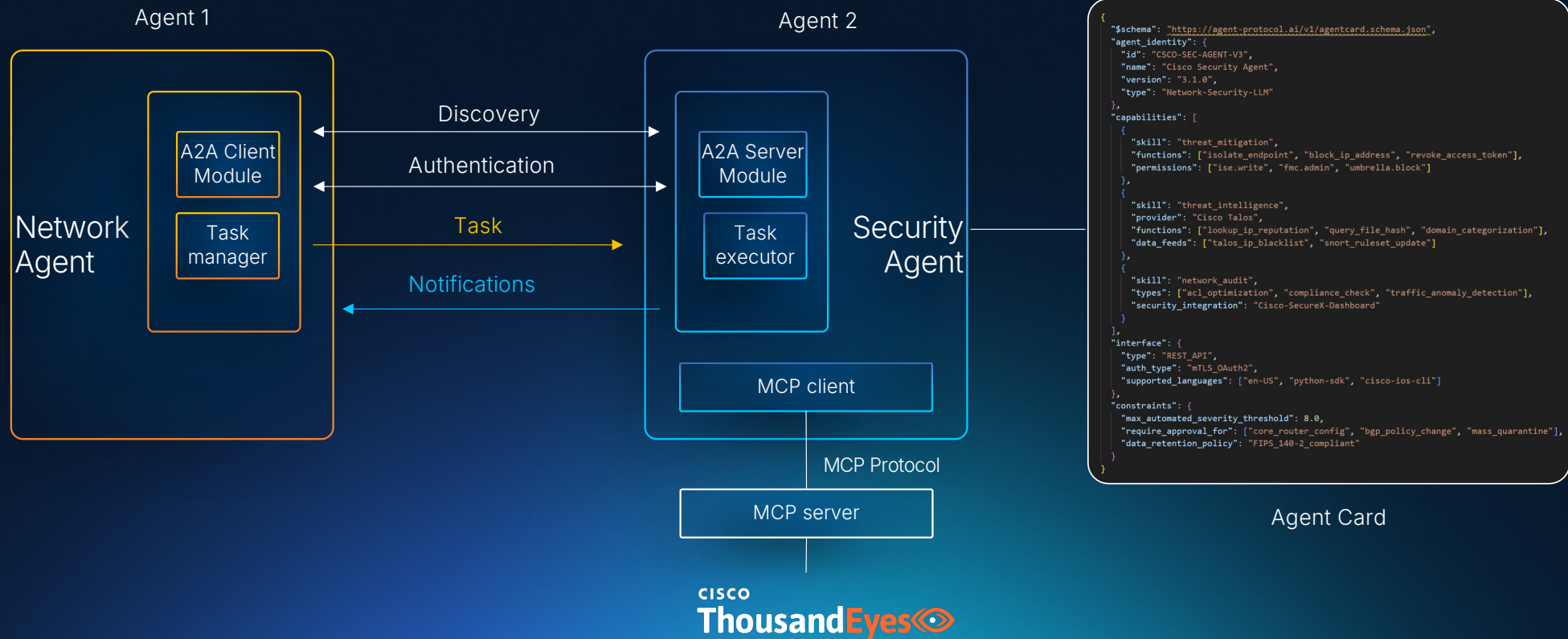
Describe what to build

+ Agent Auto Balance

Local Default permissions

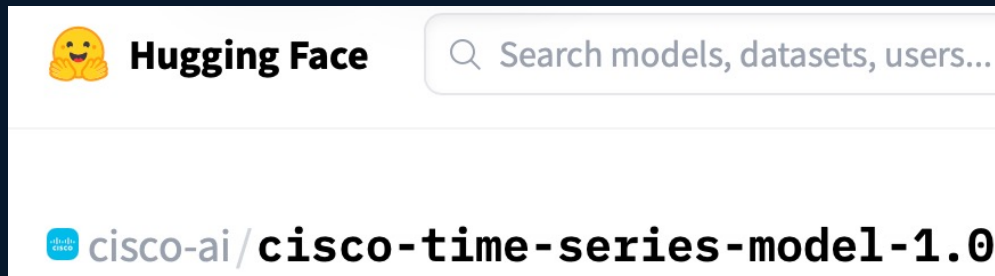
Together, MCP & A2A

A2A and MCP are open standards that let AI agents interoperate end-to-end—A2A for agent-to-agent coordination and MCP for consistent, secure access to tools and data. Together they reduce bespoke integrations and make multi-agent systems easier to connect, scale, and govern.



Cisco Time Series Model

<https://app.vidcast.io/share/400df774-f8cf-4913-883e-e6c47ce34ea3>



cisco-ai/cisco-time-series-model-1.0 Like 10 Follow Cisco 2.01k

Time Series Forecasting

Transformers

Safetensors

Salesforce/GiftEvalPretrain

autogluon/chronos_datasets

cisco-time-series-model-1.0

foundation models

forecasting

pretrained models

time-series

time series foundation models

forecasts

arxiv:2511.19841

License: apache-2.0

Model card

Files and versions

xet

Community

⋮

Deploy

→ Copy to bucket NEW

Use this model

Edit model card

Cisco Time Series Model 1.0

The Cisco Time Series Model is a foundation model trained to perform univariate zero-shot forecasting. Its core is a sequence of decoder-only transformer layers. It is architecturally inspired by the [TimesFM2.0 model](#), with multiresolution modifications aimed at efficient use of long context. It expects a multiresolution context (x_c, x_f) , where the resolution (i.e., space between data points) of x_c is 60 times the resolution of x_f . Both x_c and x_f can have length up to 512. The input contexts should be aligned “on the right,” e.g., if x_f consists of the 512 minutes terminating at 11:00AM on November 11, then x_c should consist of the 512 hours terminating at the same time. The output is a forecast of 128 points, which should be interpreted at the finer resolution; and corresponding quantiles for these points.

For convenience, we also provide utilities for preparing a multiresolution context from a single resolution context (with length up to $512 \times 60 = 30,720$) directly.

Latest Release (250M) - [CTSM 1.0](#)

Results and Improvements:

- Achieves **state-of-the-art performance in the Observability (O11y) domain** compared to leading models.

Downloads last month
888

Safetensors ⓘ

Model size 0.3B params

Tensor type F32

Files info

⚡ Inference Providers NEW

Time Series Forecasting

This model isn't deployed by any Inference Provider.

Ask for provider support

Datasets used to train cisco-ai/cisco-time-series-model-1.0

Salesforce/GiftEvalPretrain

Preview • Updated Jan 21, 2025 • 374k • 42

autogluon/chronos_datasets

Viewer • Updated Mar 18, 2025 • 10.4M • 31.4k • 76

Spaces using cisco-ai/cisco-time-series-model-1.0 2

cisco-ai/ctsm-demo ⭐

TSFM-ai/future-ts

Learn More?

- DevNet Learning Labs

AI Defense -

<https://developer.cisco.com/learning/search/?contentType=lab&page=1&products=AI%20Defense>

Vibe Coding 101 - <https://developer.cisco.com/learning/labs/VibeCoding101/vibe-coding-with-guardrails/>

References

- Cisco AI Blog
<https://blogs.cisco.com/ai>
- Cisco Cloud Control dCloud demo:
<https://dcloud2-lon.cisco.com/content/instantdemo/agentcops-with-cisco-cloud-control>
- Cisco at Huggingface:
Foundation AI (Antares) - <https://huggingface.co/fdtn-ai>
Cisco AI (Time Series) - <https://huggingface.co/cisco-ai>
- Cisco MCP Servers
MCP Servers at DevNet - <https://developer.cisco.com/codeexchange/ai/MCP/>
Meraki MCP Server Documentation - <https://developer.cisco.com/meraki/api-v1/mcp-server/>
Meraki MCP Server - <https://github.com/CiscoDevNet/cisco-meraki-mcp-official/>
Catalyst Center MCP Server - <https://github.com/cisco-en-programmability/catc-mcp-oss>
ThousandEyes MCP Server - <https://docs.thousandeyes.com/product-documentation/integration-guides/thousandeyes-mcp-server>
- Cisco Time Series Model
TSM at HuggingFace - <https://huggingface.co/cisco-ai/cisco-time-series-model-1.0>
Jupyter Notebook Examples - <https://github.com/JardaMartan/cisco-tsm.git>

Děkujeme za Vaši pozornost

Následující Tech Club webinarů:

6.10.2026 Cisco Full Stack AI DC

Přednášející: Miloš Pavlík



Následující webinar



Tech Club portál



Tech Club Webex Space



Tech Club Spotify

