# CSPP Experiment 10

## 10.1 Aim:

To explore and analyze the Cisco AI Assistant (BETA) integrated within Cisco Catalyst SD WAN Manager for simplifying network configuration, troubleshooting, and monitoring through natural-language interaction.

## 10.2 Course Outcome:

Demonstrate the ability to utilize AI-driven tools to automate and optimize network operations, improving visibility, agility, and operational efficiency in SD-WAN environments.

## 10.3 Lab Objective:

To access and use the Cisco AI Assistant interface to perform configuration queries, monitor device health, and interpret real-time analytics using natural-language prompts.

## 10.4 Requirements:

- Platform / Tool: Cisco Catalyst SD-WAN Manager (vManage)
- Network Devices: Cisco cEdge or vEdge routers (physical / virtual — e.g., C8000v)
- Software Version: Cisco SD-WAN Release with AI Assistant (BETA) feature enabled
- Browser: Chrome / Edge (latest version)
- User Access: Network Admin login credentials with monitor privileges

## 10.5 Theory:

The Cisco AI Assistant is a large-language-model (LLM) based component of Cisco's AgenticOps initiative, which merges AI + automation + telemetry + visualization to simplify network operations.

By integrating directly into Cisco Catalyst SD-WAN Manager, it allows administrators to query the system using everyday language.

Key features include:

- Natural-Language Processing (NLP): Enables human-like interaction for configuration and diagnostics.
- Automation: Reduces manual command entry and accelerates repetitive workflows.

- Telemetry-Driven Insights: Uses analytics from SD-WAN fabric to deliver health and performance data.

- AIOps Alignment: Supports intent-based networking for agility, reliability, and cost efficiency.

Through this integration, even less-experienced personnel can perform complex tasks such as tunnel health verification, cloud OnRamp configuration, or ThousandEyes Agent setup with minimal effort.

**10.6 Tasks / Procedure:**

Step 1: Log in to the Cisco Catalyst SD-WAN Manager portal.
Step 2: Navigate to Monitor → Overview.
Step 3: Click the AI Assistant icon (highlighted symbol) to open the AI Assistance window. Step 4: Explore default natural-language prompts:

1. "What's New?" – Displays links to new features and documentation.

2. "How to configure ThousandEyes Agent?" – Provides step-by-step configuration guidance.

3. "How is the Application health?" – Summarizes top application performance. 4. "How are tunnels doing?" – Reports tunnel performance and status. 5. "How to configure Cloud OnRamp for SaaS?" – Lists steps to enable Cloud OnRamp. 6. "Show Device Health" – Displays current health of SD-WAN devices.

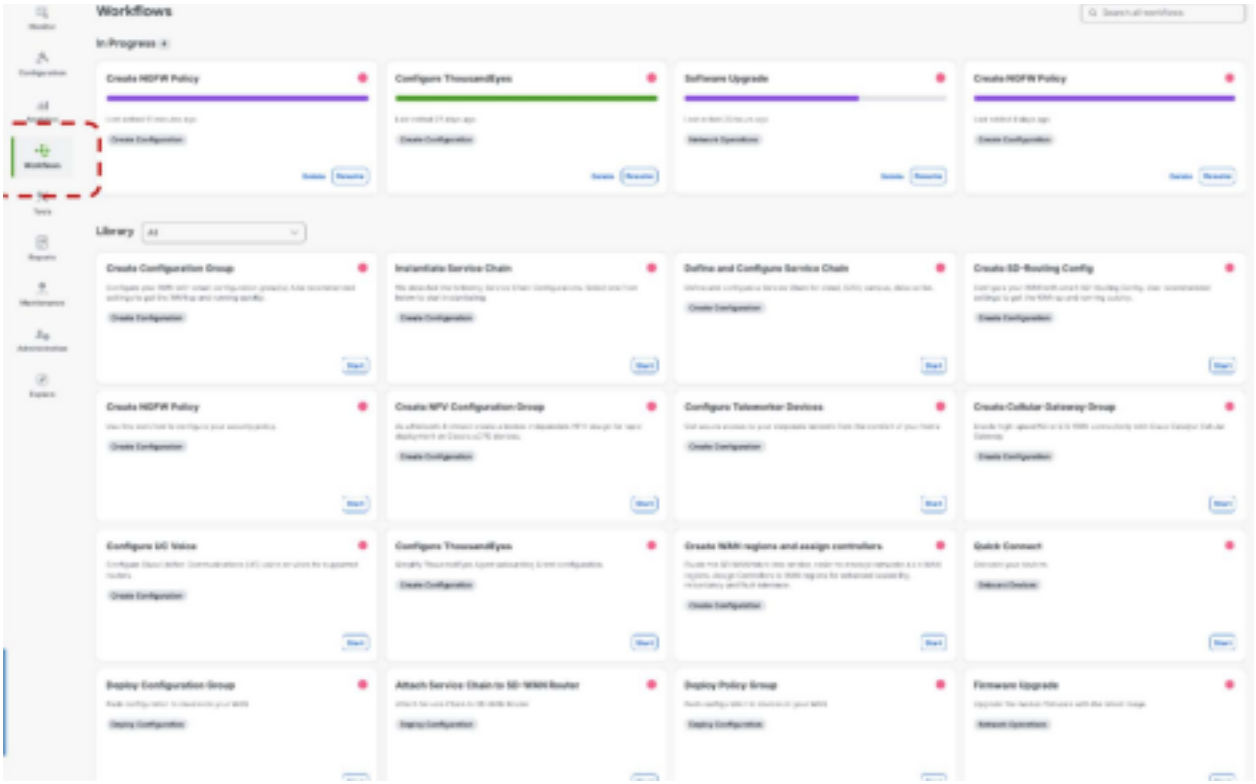
Step 5: Interact further with the "Show Device Health" response:

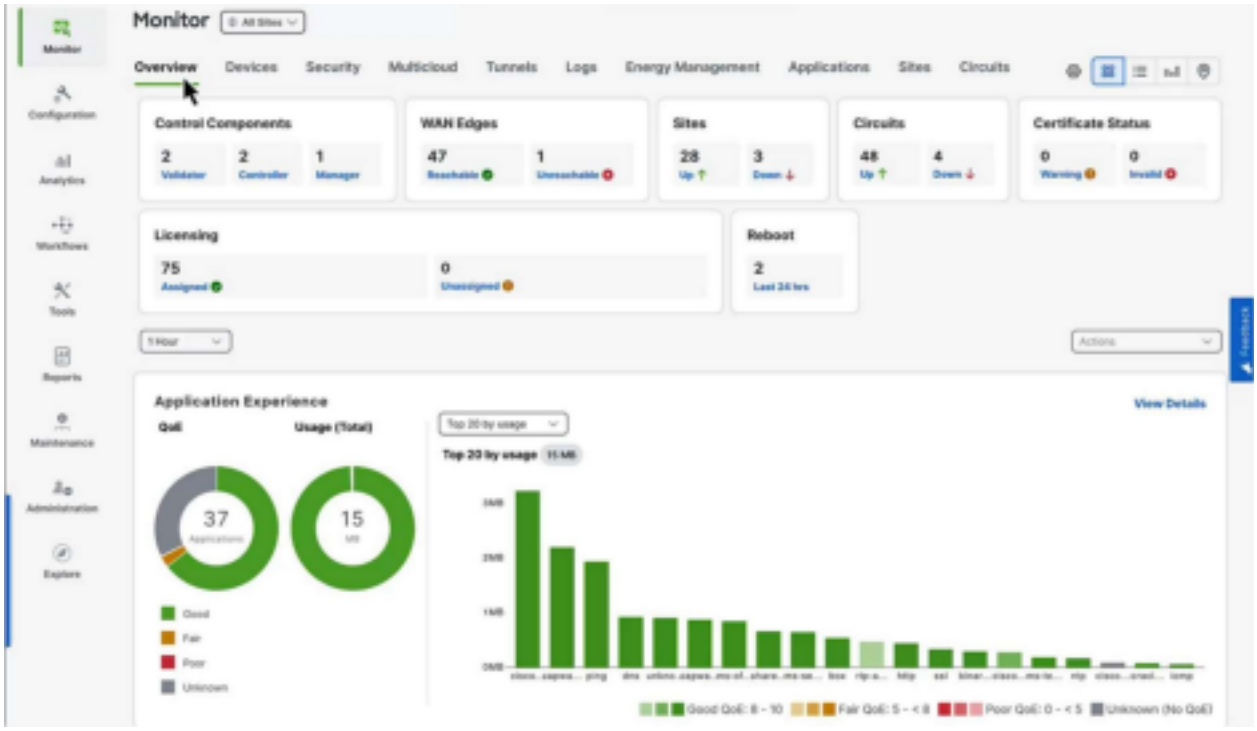
- Type Good → Lists sites with Good status.
- Type Fair → Lists sites with Fair status.

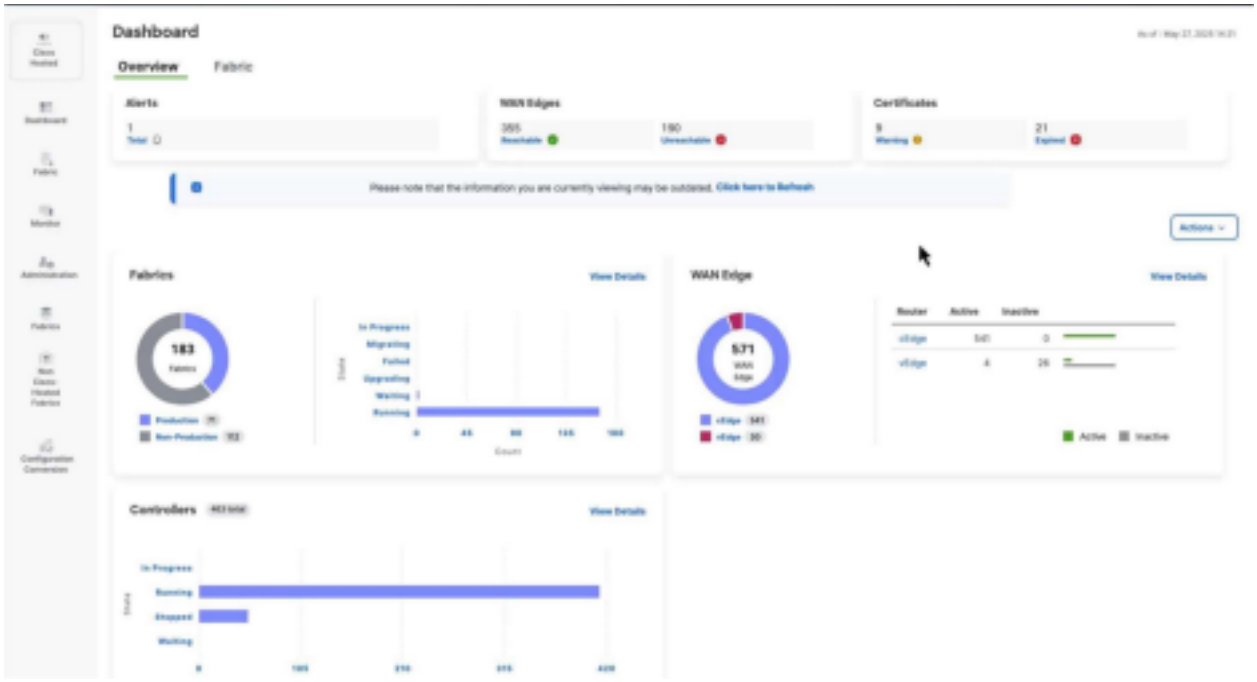
- Type Poor → Lists sites with Poor status.

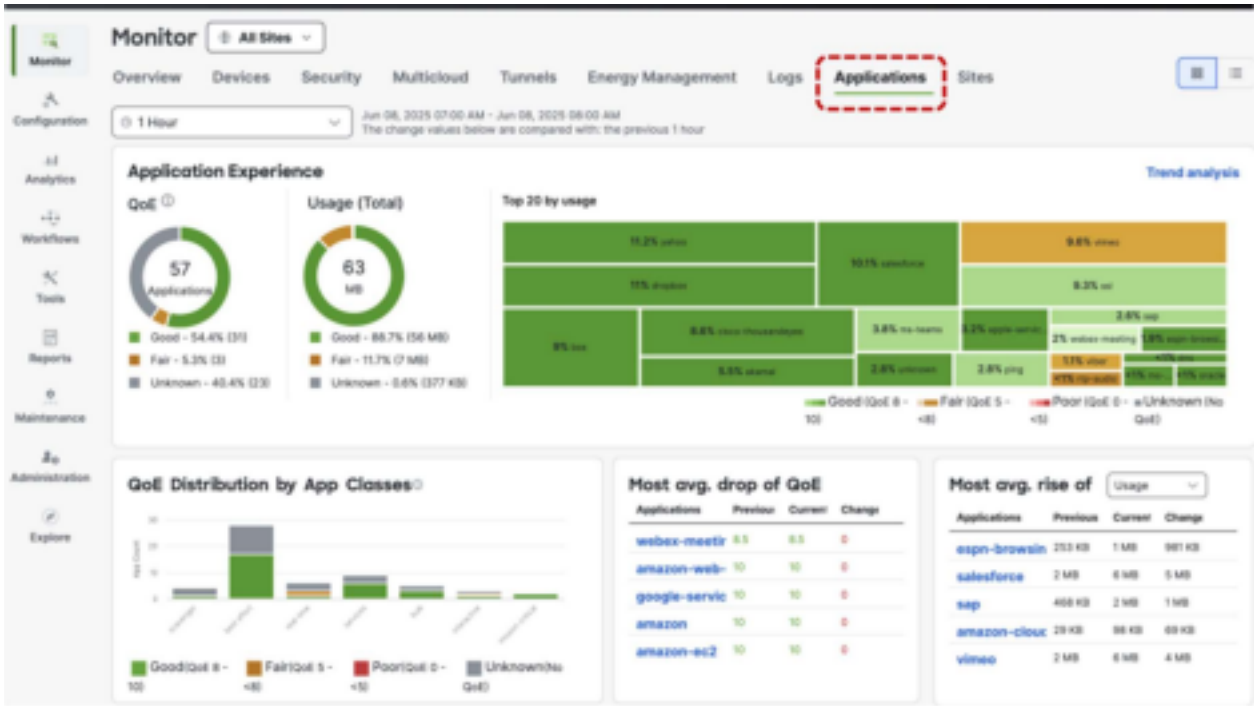
Step 6: Observe how the AI Assistant pulls telemetry data to provide contextual insights and recommendations.
Step 7: Record screenshots of each query and its output.

## 10.7 Output Screenshots:




Dashboard
Overview
Fabric
Alerts
NWA Edges
Certificates
Please note that the information you are currently viewing may be outdated. Click here to Refresh
Actions
Fabrics
View Details
183
Fabrics
WAN Edge
571
Controllers
In Progress
Running
Stopped
Waiting


Monitor
All Sites
Overview
Devices
Security
Multicloud
Tunnels
Energy Management
Logs
Applications
Sites
1 Hour
Application Experience
Trend analysis
QoE
57
Applications
Good - 54.4% (31)
Fair - 5.3% (3)
Unknown - 40.4% (23)
Usage (Total)
63
MB
Good - 86.7% (56 MB)
Fair - 11.7% (7 MB)
Unknown - 0.6% (377 KB)
Top 20 by usage
Good (QoE 8 - 10)
Fair (QoE 5 - <8)
Poor (QoE 0 - <5)
Unknown (No QoE)
QoE Distribution by App Classes
Most avg. drop of QoE
Applications
Previous
Current
Change
webex-meetir
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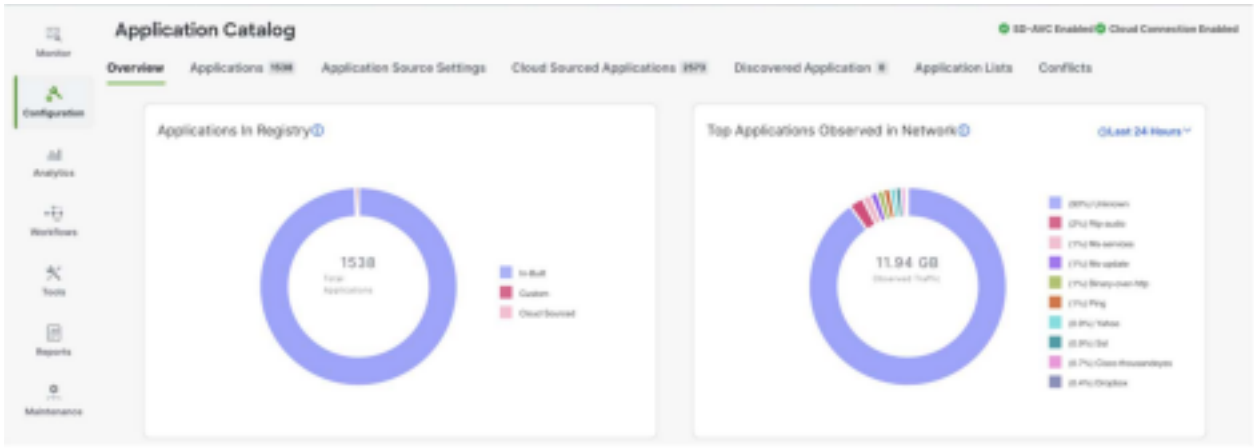
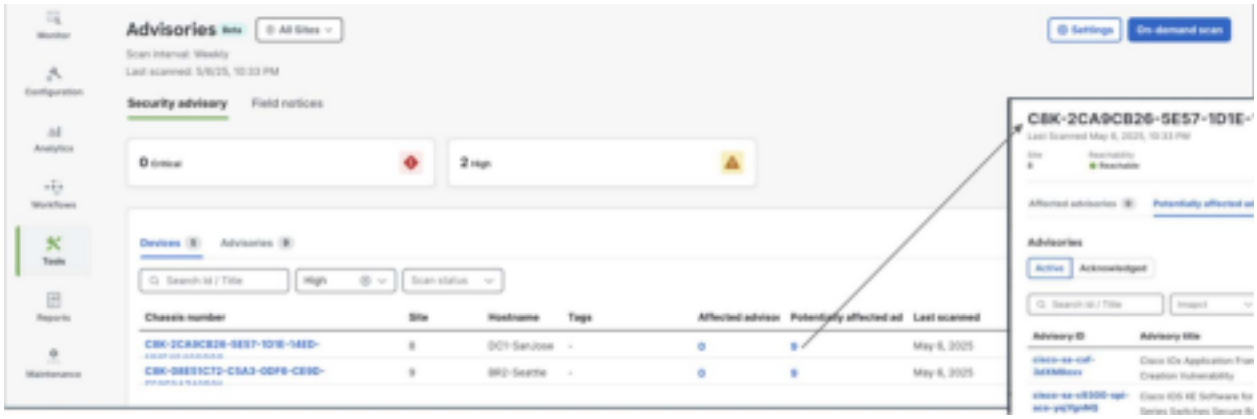
amazon
amazon-ec2
Most avg. rise of
Usage
espn-browsin
salesforce
sap
amazon-cloud
vimeo




## 10.8 Conclusion:

The Cisco AI Assistant (BETA) within Catalyst SD-WAN Manager effectively translates natural language queries into actionable configuration guidance and real-time analytics.tangible benefits of combining AI-driven natural-language processing with SD-WAN orchestration, lowering the skills barrier and improving network agility. Continuous telemetry coupling ensures that recommendations remain contextually relevant, reinforcing Cisco's AgenticOps vision for intent based, automated network operations.