



Cisco Catalyst Center Platform:

APIs, Event Notifications, Integrations,
and DevOps Resources

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DEVNET-1087



Webex App

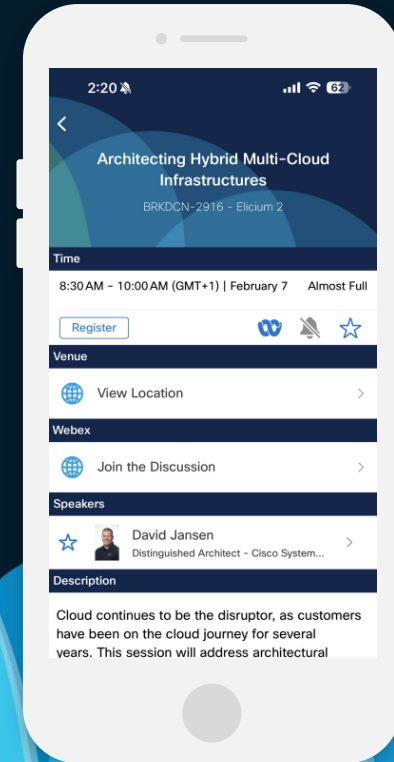
Questions?

Use the Webex app to chat with the speaker after the session

How

- 1 Find this session in the Cisco Events mobile app
- 2 Click “Join the Discussion”
- 3 Install the Webex app or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until February 28, 2025.





Agenda

- Catalyst Center Platform Overview
- REST APIs
- Event Notifications
- Integrations
- Developer Resources
- Summary



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Catalyst Center Platform Vision



Efficient

Managing infrastructure as code while lowering OPEX



Consistent

Repeatable and precise intent-based outcomes



Scalable

Able to reduce time and effort with large network automation requirements



Secure

Secure APIs and integrations



Sustainable

Integrate sustainable devices and systems



Smart

260+ real time event notifications and AI/ML capabilities

Catalyst Center Platform

Event Notifications

- Assurance Issues
- AI/ML Insights
- System Health
- Integration Connectivity
- License Management
- Webhooks
- PagerDuty
- Webex
- Syslog
- SNMP

Northbound REST APIs

- Network Inventory
- Network Topology
- Network Design
- Provisioning
- SWIM, PnP
- Compliance
- Assurance
- SDA
- Templates
- RMA
- Config Archive
- Sensors

IT Ecosystem Integrations


- IT Service Management
- IP Address Management
- Reporting
- Wireless Planning
- Alerting
- Network Insights

Developer Resources






- Sample Code, Videos
- Python SDK, Ansible, Terraform
- GenAI Use Cases
- Cisco DevNet
 - Sandboxes, Learning Labs
 - Developer Guides, Community



Catalyst Center Platform – Overview

 Catalyst Center

Platform / Overview



Gabi

Welcome to the Catalyst Center Platform. Programmatically access your network through Intent APIs, integrate with your preferred IT systems to create end-to-end solutions and add support for multi-vendor devices.

Bundles

Bundles are easy to use feature sets for consuming Intent APIs, integrations, events and notifications. View all the available bundles, enable relevant bundles and customize the configuration preferences to consume events as per your application(s) or IT system(s) needs.

Developer Toolkit

Discover APIs to manage your network, configure integration flows and access network data to analyze, export and visualize complex reports.

Runtime Dashboard

Get insights into API usage, view events published to IT systems such as number of API calls, response time(s), events published, bundles activated etc.

Configurations

View and set global or bundle specific settings to manage your integration configurations and modify event specific settings.

Notifications

Find

BUNDLE UPDATE

Disabled the Catalyst Center Automation events for ITSM (ServiceNow) bundle.

Feb 05 2025, 08:58 PM

[View Details](#) | [Dismiss](#)

BUNDLE UPDATE

Network Issue Monitor and Enrichment for ITSM successfully configured.

Feb 05 2025, 08:58 PM

[View Details](#) | [Dismiss](#)

BUNDLE UPDATE

Basic ITSM (ServiceNow) CMDB synchronization successfully configured.



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Catalyst Center Platform – Developer Toolkit

The screenshot shows the Catalyst Center Developer Toolkit interface. The top navigation bar includes the Cisco logo, 'Catalyst Center', and a breadcrumb trail 'Platform / Developer Toolkit'. Below this, the 'APIs' tab is selected, with 'Integration Flows' and 'Event Notifications' as sub-tabs. A left sidebar contains a search bar and a list of categories: Authentication, Cisco DNA Center System, Connectivity, Ecosystem Integrations, Event Management, Integrations, Know Your Network, Applications, Clients, Compliance, Devices (highlighted), EoX, Issues, and Security Advisories. The main content area displays a list of APIs with columns for HTTP method, description, and endpoint. The first API is a POST endpoint for getting summary analytics data. The second is a GET endpoint for querying assurance events. The third is a DELETE endpoint for deleting a device by ID. The fourth is a GET endpoint for returning a list of network devices based on filter criteria. A 'Try' button is visible at the bottom right of the interface.

Platform / Developer Toolkit

APIs Integration Flows Event Notifications

Search

Authentication

Cisco DNA Center System

Connectivity

Ecosystem Integrations

Event Management

Integrations

Know Your Network

Applications

Clients

Compliance

Devices

EoX

Issues

Security Advisories

POST Gets the summary analytics data related to network devices.

GET Query assurance events

DELETE Delete Device by Id

Try

- Review API docs, configure integration workflows and subscribe to events
- API docs for multiple versions of Catalyst Center may be found on [DevNet](#)

850+ APIs, Version 2.3.7.7
Download the OpenAPI Specs from [DevNet](#)

Try
Call an API without writing any code

Try an API Call

Try 'Get Device list'

Method: **GET** Public URL :https://10.93.141.45/dna/intent/api/v1/network-device

PARAMETERS

QUERY PARAMETERS

- ☐ Select All
- ☒ hostname **LO-CN**
- ☐ managementIpAddress
- ☐ macAddress
- ☐ locationName
- ☐ serialNumber

Run

Response Headers Status Code: **200**

```
1 - {
2   "response": [
3     {
4       "type": "Cisco Catalyst 9300 Switch",
5       "lastUpdateTime": "1705537690563",
6       "macAddress": "30:8b:b2:ba:c2:80",
7       "deviceSupportLevel": "Supported",
8       "softwareType": "IOS-XE",
9       "softwareVersion": "17.9.4a",
10      "serialNumber": "FJC2325T0PH",
11      "collectionInterval": "Global Default",
12      "dnsResolvedManagementAddress": "10.93.141.20",
13      "inventoryStatusDetail": "<status><general code=\\\"SUCCESS\\\"/></status>",
14      "managementState": "Managed",
15      "pendingSyncRequestsCount": "0",
16      "reasonsForDeviceResync": "Periodic",
17      "reasonsForPendingSyncRequests": "",
18      "upTime": "84 days, 2:19:13.13",
19      "bootDate": "2023-10-25 22:09:10",
20      "lastUpdated": "2024-01-18 00:28:10",
21      "reachabilityStatus": "Reachable",
22      "series": "Cisco Catalyst 9300 Series Switches",
23      "snmpContact": "",
24      "snmpLocation": "",
25      "roleSource": "MANUAL",
26      "apManagerInterfaceIp": "",
27      "collectionStatus": "Managed",
```

Code Preview

The screenshot displays the Cisco Catalyst Center API interface. On the left is a navigation sidebar with categories like APIs, Integration Flows, and Event Management, and a list of specific features such as Search, Event Management, Integrations, Know Your Network, Applications, Clients, Compliance, Devices, EoX, Issues, Security Advisories, Sensors, Sites, Topology, Users, Operational Tasks, and Policy. The main panel is titled 'Get Device Count' and shows a GET request to the URL `https://10.93.141.45/dna/intent/api/v1/network-device/count`. Below the URL, it states: 'Returns the count of network devices based on the filter criteria by management IP address, mac address, hostname and location name'. A link to the 'Cisco DevNet API Guide' is provided. There are four tabs: Parameters, Features, Responses, and Code Preview (which is highlighted with a green box). Below the tabs, a 'Language' dropdown menu is open, showing options: Node - Unirest, Node - Request, Python (highlighted with a green box), Ruby, Javascript, and jQuery. The code preview area shows a Python script snippet for making an API call. At the bottom right of the main panel are 'Close' and 'Try' buttons.

Code Preview
Generate code in few programming languages

Sync and Async APIs

Sync API

Get Site V2

GET <https://10.93.141.45/dna/intent/api/v2/site>

API to get site(s) by site-name-hierarchy or siteid or type. List all sites if these parameters are not given

[Cisco DevNet API Guide](#)

Parameters Responses Code Preview

200

The request was successful. The result is contained in the response body.

Schema Sample

root (map, required)

- response (array<map>, required)
 - parentId (string, optional): Parent site Instance UUID (e.g. b27181bb-211b-40ec-ba5d)
 - groupTypeList (array<string>, optional): There are different group types like 'RBAC', 'PC site, so list contains 'SITE' only
 - groupHierarchy (string, optional): Site hierarchy by instance UUID (e.g. b27181bb-211b-a46f-305f475de4c5)
- additionalInfo (array<map>, optional): Site additional info
 - nameSpace (string, optional): Site name space. Default value is 'Location'

API response includes the requested data

Async API

Create Site

POST <https://10.93.141.45/dna/intent/api/v1/site>

Creates site with area/building/floor with specified hierarchy.

[Cisco DevNet API Guide](#)

TAGS

NFV

Parameters Features Request Body Responses Policies Code Preview

200

The request was successful. The result is contained in the response body.

Schema Sample

root (map, optional)

- executionId (string, optional)
- executionStatusUrl (string, optional)
- message (string, optional)

202

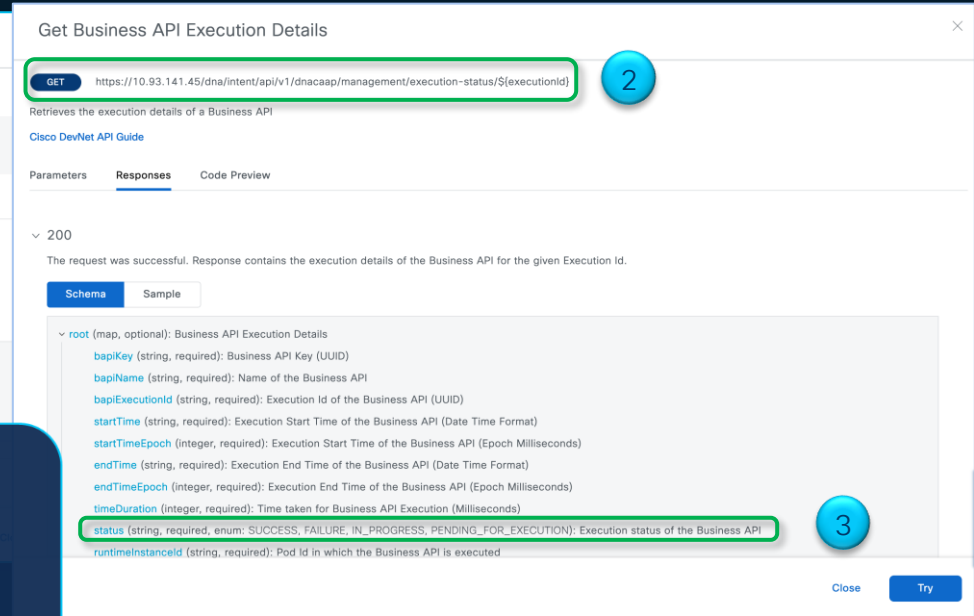
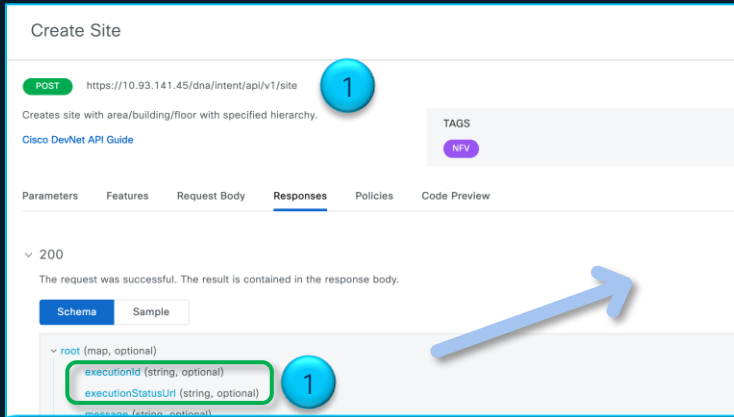
Close Try

The API request triggers a process being scheduled.
The response provides a task or execution unique identifier for the process.

Note:

APIs for which we are unable to *ensure* a response in 60 seconds are implemented as Async

Async APIs Workflow



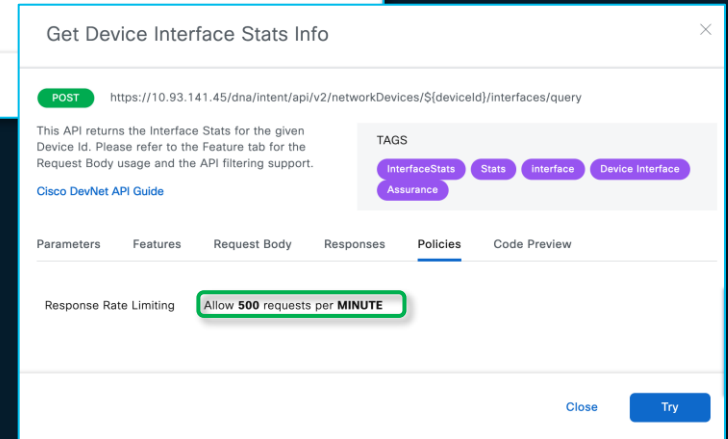
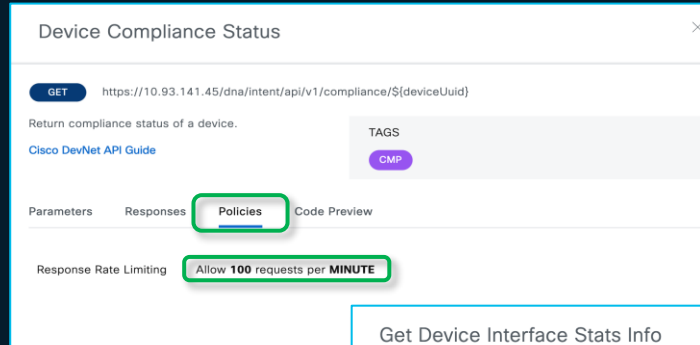
1. Call Async API, select the `{executionId}` or `{executionStatusUrl}` from response
2. Call the business execution details API using the `{executionId}`. Repeat this call until execution is completed
3. Select the `execution status`
4. Some Async APIs provide the option to send a webhook notification when process (report) is completed

Note:

Async APIs execution may complete in few seconds, minutes, or longer.

API Rate Limits

- Catalyst Center API rate and concurrency limits are defined at the API level
- Default rate limit is 100 API calls/minute
- Rate limits up to 500 API calls/minute
- Continuous improvement for concurrency limits by API redesign



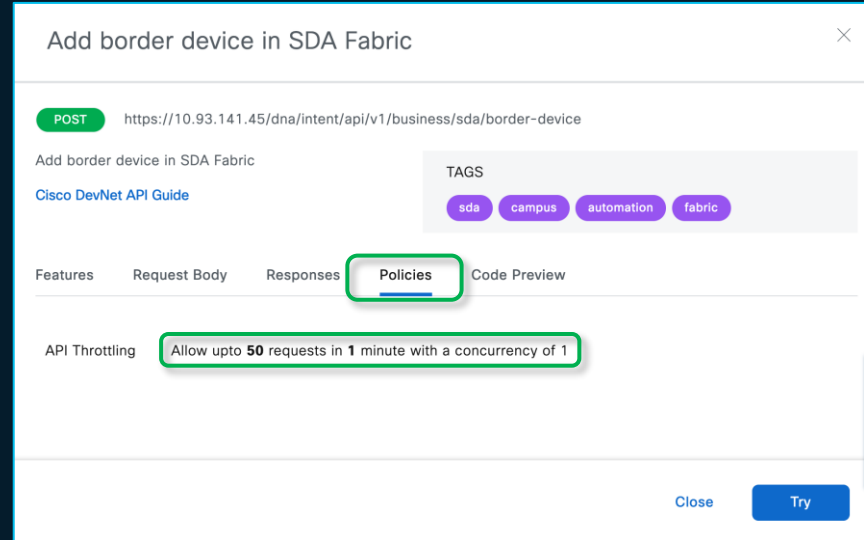
API Concurrency Limits

- Default API concurrency limit is the API rate limit
- This is very important for Async APIs
- Concurrency limits are decided by the operation implemented

The screenshot displays the Cisco DevNet API Explorer interface for the endpoint `https://10.93.141.45/dna/intent/api/v1/business/sda/hostonboarding/user-device`. The API is a `POST` method. The 'Policies' tab is selected, showing the 'API Throttling' policy: 'Allow upto 50 requests in 1 minute with a concurrency of 50'. The interface also includes a 'Request Body' tab, 'Responses' tab, and a 'Code Preview' tab. The 'TAGS' section shows 'sda', 'campus', 'automation', and 'fabric'.

Parallel Processing

- Ansible default parallel processing is on 5 hosts
- Terraform default is 10 concurrent operations
- Other programming languages or automation platforms may vary
- Results may be unpredictable when grossly exceeding API concurrency and rate limits
- Understand the Catalyst Center resources for various processes



Note:

Best practice is to trigger the first operation, check for completion, trigger the next operation, etc.

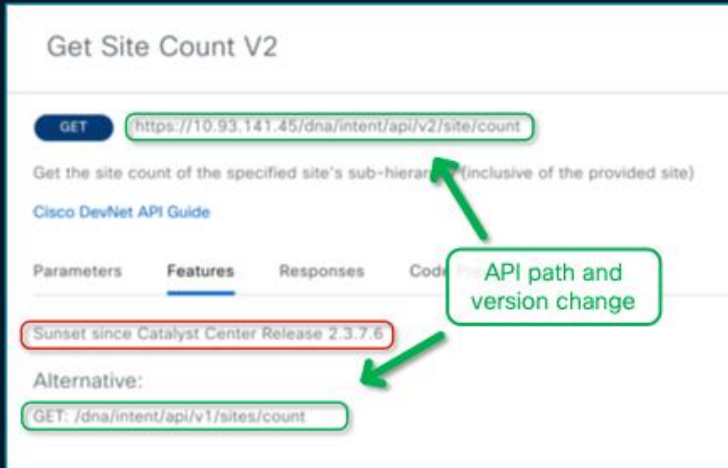
Scaling APIs with Bulk Operations and Reports

- Current recommendation for retrieval of large data sets from Catalyst Center is to use reports
- 65 reports templates and flexible reports available
- We are adding bulk APIs for specific operations: sites, profiles, health scores, and planning more

The screenshot shows the Cisco DevNet API Explorer interface for the 'Create sites' endpoint. The endpoint URL is `https://10.93.141.45/dna/intent/api/v1/sites/bulk`, which is highlighted with a green box. Below the URL, there is a description: 'Create area/building/floor together in bulk. If site already exist, then that will be ignored. Sites in the request payload need not to be ordered.' A 'Cisco DevNet API Guide' link is provided. On the right, there is a 'TAGS' section with a 'Network Hierarchy' tag. The interface has tabs for 'Parameters', 'Request Body', 'Responses', 'Policies', and 'Code Preview', with 'Request Body' currently selected. Below the tabs, there is a note: 'Request payload to create area/building/floor together in bulk. Either latitude/longitude or address is required to create building.' There are two buttons: 'Schema' and 'Sample', with 'Sample' selected. The 'Sample' button shows a JSON payload for creating a site.

```
1 - [
2 -   {
3 -     "parentNameHierarchy": "string",
4 -     "name": "string",
5 -     "latitude": "number",
6 -     "longitude": "number",
7 -     "address": "string",
8 -     "country": "string",
9 -     "floorNumber": "integer",
10 -    "rfModel": "string",
11 -    "width": "number",
12 -    "length": "number",
13 -    "height": "number",
14 -    "unitsOfMeasure": "string",
15 -    "type": "string"
16 -   }
17 ]
```

API Lifecycle Management



- **Beta** – The API has been released in Beta for feedback and will be supported in the future. However, the API design is not frozen and therefore may include changes in the future: request/response payload, URL change, query/header parameters.
- **Supported** – In production and supported. The design is frozen – breaking changes will require a new API version to be released
- **Deprecated** – Existing API could be deprecated, and will be retired after two major releases of Catalyst Center, or one year, whichever is later

Demo Device Inventory



 Explore

Health

Healthy as of Feb 5, 2025 9:36 AM

Category	Value
Network Devices	77%
Wireless Clients	--%
Wired Clients	89%

[View Details](#)

Last 24 Hours

1

P1

0

P2

[View Details](#)

Last 30 Days

0

AP Performance
Advisories

0

Trend Deviations

[View Details](#)

Sites

As of Feb 5, 2025 9:36 AM

16

DNS Servers : 1
NTP Servers : 1

[Add Sites](#)

As of Feb 5, 2025 9:36 AM

13

Unclaimed: 3
Unprovisioned: 1
Unreachable: 0

[Find New Devices](#)

As of Feb 5, 2025 9:37 AM

C

Successful Deploys: 0
Errored Deploys: 0
Stale Policies: 0

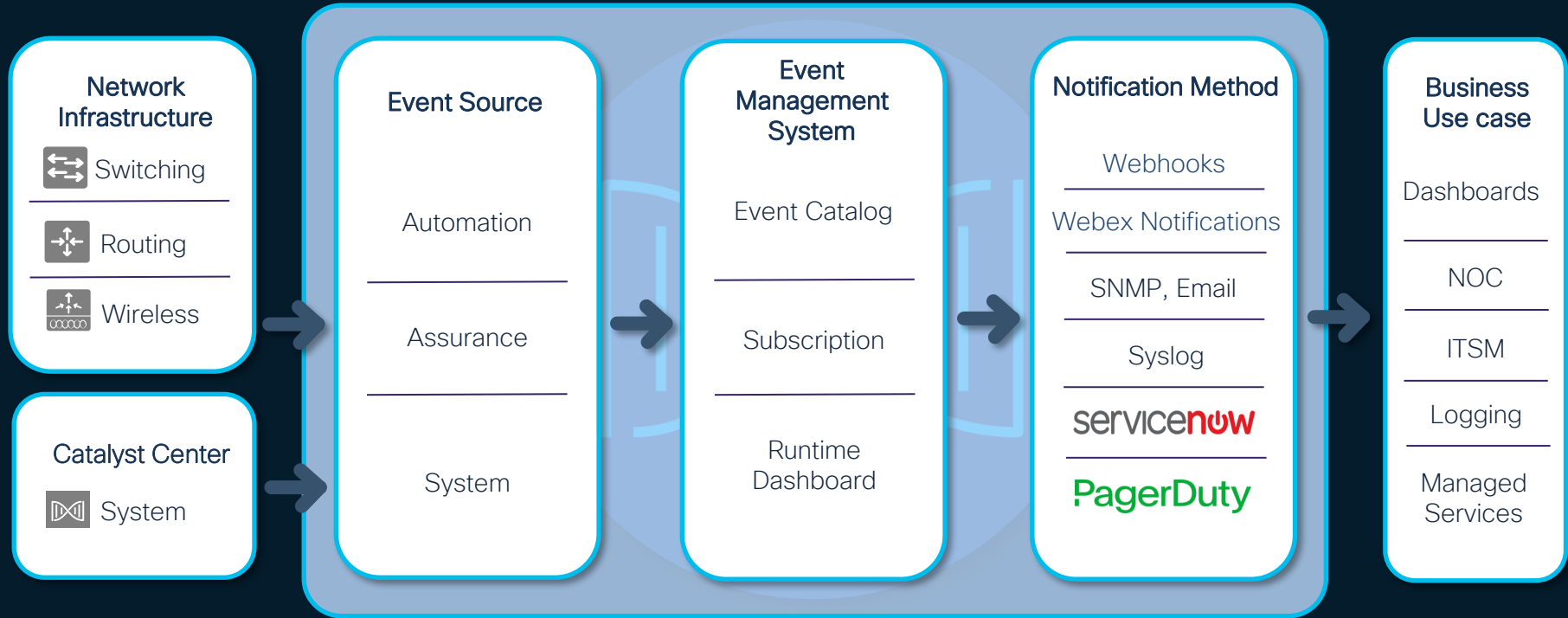
[Add New Policy](#)



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Event Notifications Framework



269 Events in Different Areas ...

Backup/Restore
Fabric Clients
AP Anomaly
Wired Connectivity
CPU and Memory Utilization
Onboarding
Software Image Management
Compliance
Device hardware and software
Application Experience
Device Availability
Wireless Connectivity
System and Integrations

Event Catalog

Catalyst Center

Platform / Developer Toolkit

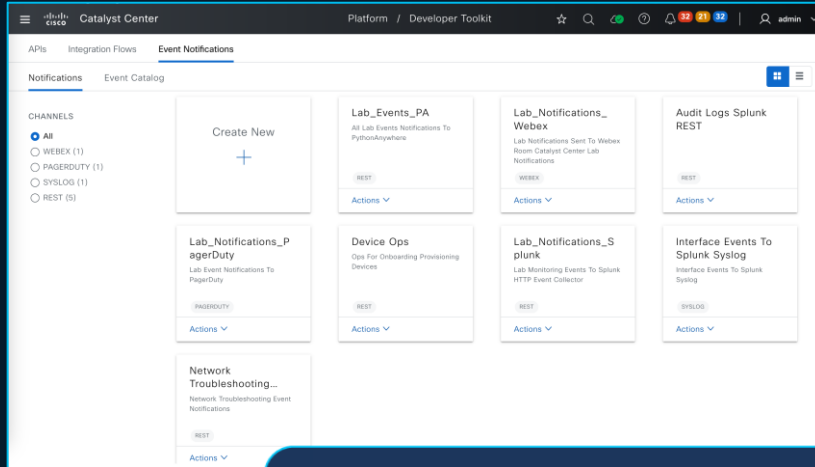
APIs Integration Flows **Event Notifications**

NETWORK-DEVICES-3-208	High input/output Utilization on Switch Interfaces	NETWORK	WARN	3
NETWORK-DEVICES-3-209	High input/output Error on Switch Interfaces	NETWORK	WARN	3
NETWORK-DEVICES-3-210	Interface Flapping On Network Device	NETWORK	WARN	3
NETWORK-DEVICES-3-211	Stack Member Removal	NETWORK	WARN	3
NETWORK-DEVICES-3-215	High input/output Discard on Switch Interfaces	NETWORK	WARN	3
NETWORK-DEVICES-3-217	High input/output utilization on Switch WAN interfaces	NETWORK	WARN	3
NETWORK-DEVICES-3-218	High input/output discard on Switch WAN interface	NETWORK	WARN	3
NETWORK-DEVICES-3-252	Router Experiencing High CPU Utilization	NETWORK	WARN	3
NETWORK-DEVICES-3-253	High input/output Utilization on Router Interfaces	NETWORK	WARN	3
NETWORK-DEVICES-3-254	High input/output Error on Router Interfaces	NETWORK	WARN	3

Showing 269 of 269

- Platform → Developer Toolkit → Event Notifications
- Version 2.3.7.6 – 269 events
- Event Catalog may be found also on [DevNet](#)

Event Catalog – Notifications Channels



Two steps are required for sending event notifications:

1. Configure destinations
2. Subscribe to events

- 269 Events supported (version 2.3.7.7)
- Supported notifications channels:
 - Webhooks (REST)
 - ITSM – ServiceNow
 - Syslog and SNMP
 - PagerDuty
 - Webex Teams
 - Email
- Active/Resolved status updates
- Audit Logs events notifications

Webhooks

- Used by servers to publish data, (or event notifications)
- Pre-configured destinations to send data to
- Using POST or PUT methods
- Server sends data when something new
- Push Model

```
{
  "severity": "1",
  "category": "ALERT",
  "timestamp": 1701864600273,
  "Assurance Issue Name": "Network Device 10.93.141.24 Is Unreachable From Controller - Notification from Cisco DNA Center, PA",
  "Assurance Issue Details": "This network device SP is unreachable from controller. The device role is BORDER ROUTER",
  "Assurance Issue Status": "resolved",
  "Assurance Issue URL": "https://10.93.141.45/dna/assurance/issueDetails?issuelid=c82bf364-ec1b-41a2-9b2b-504da2083fc8"}

{
  "severity": "1",
  "category": "ALERT",
  "timestamp": 1706245321519,
  "Assurance Issue Name": "Interface (Interface description: ) is Down on Network Device - Notification from Cisco DNA Center, PA",
  "Assurance Issue Details": "Interface (Interface description: ) connecting the following two network devices is down: Local Node: , Peer Node: ",
  "Assurance Issue Status": "",
  "Assurance Issue URL": "https://10.93.141.45/dna/assurance/issueDetails?issuelid=448a421e-1928-45ca-a4da-6c6707a782dc"}

{
  "severity": "1",
  "category": "ALERT",
  "timestamp": 1706245434656,
  "Assurance Issue Name": "Interface (Interface description: ) is Down on Network Device - Notification from Cisco DNA Center, PA",
  "Assurance Issue Details": "Interface (Interface description: ) connecting the following two network devices is down: Local Node: , Peer Node: ",
  "Assurance Issue Status": "",
  "Assurance Issue URL": "https://10.93.141.45/dna/assurance/issueDetails?issuelid=456a67f0-5743-4808-8989-e85ad3b2db48"}

{
  "severity": "3",
  "category": "WARN",
  "timestamp": 1706245934821,
  "Assurance Issue Name": "Interface (Interface description: ) is Flapping on Network Device - Notification from Cisco DNA Center, PA",
  "Assurance Issue Details": "Switch Interface (Interface description: ) is flapping",
  "Assurance Issue Status": "",
  "Assurance Issue URL": "https://10.93.141.45/dna/assurance/issueDetails?issuelid=b16fd046-4352-46c8-830a-f1b0636f5eb9"}
}
```

Create a new Webhook Destination

The screenshot displays the Cisco Catalyst Center web interface. On the left is a navigation sidebar with categories like 'Umbrella', 'Authentication and Policy Servers', 'Integrity Verification', 'SD-Access Compatibility Matrix', 'IP Address Manager', 'Cloud Access Login', 'Cisco AI Analytics', 'Stealthwatch', 'Talos IP Reputation', 'Destinations', 'Cisco Spaces/CMX Servers', 'Machine Reasoning Engine', 'Cloud Authentication', 'Cisco Catalyst - Cloud', 'Webex Integration', 'ThousandEyes Integration', 'System Configuration', 'Debugging Logs', 'Visibility and Control of Configur...', and 'Geo Map Settings'. The main content area is titled 'System / Settings' and 'Settings / External Services'. It shows the 'Destinations' section with a description: 'Configure various types of destinations to deliver event notifications from Catalyst Center Platform'. There are tabs for 'Webhook', 'Email', 'Syslog', 'SNMP', and 'ITSM'. A table lists existing destinations: 'Splunk HEC', 'Troubleshooting Webhook Receiver', and 'PythonAnywhere'. An 'Edit Webhook' modal is open on the right, showing fields for 'Name*' (Troubleshooting Webhook Receiver), 'Description' (Webhooks destination for troubleshooting), 'URL*' (https://10.93.141.47:5443/troubleshoot...), 'Trust Certificate' (Yes/No), 'Method*' (POST), 'Authentication' (Basic/Token/No Auth), 'Proxy' (checkbox), and 'Headers' (Header Name/Value table). An 'Update' button is at the bottom right of the modal. A blue callout box is overlaid on the 'Destinations' table with a list of configuration steps.

- Name
- Description
- URL
- Trust Certificate - yes/no
- Method – POST or PUT
- Authentication
- Save

Verify Webhook Receiver

The screenshot shows the Cisco Catalyst Center interface. The top navigation bar includes 'Catalyst Center', 'Platform / Developer Toolkit', and tabs for 'APIs', 'Integration Flows', and 'Event Notifications'. The 'Event Notifications' tab is active, showing a list of events. A search bar with 'bgp' is visible. A blue callout box with a red border contains the following instructions:

- Search for subscribed events
- Select one event
- “Try-it Now” will send an event notification to all destinations subscribed to the event
- The payload is a test payload, not identical with the real event notification payload

The event list shows several entries, with 'NETWORK-NETWORKS-2-272' selected and highlighted by a red box. The detailed view on the right shows the event details for 'Network Device Interface Connectivity - BGP Down'. The 'Try-it Now' button is highlighted with a red box. The event details include:

Event Details | Notifications | **Try-it Now**

GENERAL INFORMATION

Description: BGP Connectivity is Down with Neighbor

Event ID: NETWORK-NETWORKS-2-272 | Version: 1.0.0

Namespace: ASSURANCE | Severity: 2

Domain: Know Your Network

Subdomain: Issues

Category: ERROR

Note: To programmatically get more info see here - <https://<ip-address>/dna/platform/app/consumer-portal/developer-toolkit/apis?apid=8684-39bb-4e89-a6e4>

Event Link: dna/assurance/issueDetails?issueId=\$instanceId\$

TAGS

ASSURANCE BGP_Down

CHANNELS

REST SYSLOG EMAIL WEBEX PAGERDUTY

Verify Webhook Receiver – continued

The screenshot shows the Cisco Catalyst Center interface with a 'Notification' modal dialog open. The modal contains the following information:

- Event Name:** Network Device Interface Connectivity - BGP Down
- Event Id:** NETWORK-NETWORKS-2-272
- Instance Id:** b7c8def3-e5c7-49f1-b862-6aa12b621dcf
- Name:** Network Device Interface Connectivity - BGP Dow
- Description:** BGP Connectivity is Down with Neighbor
- Namespace:** ASSURANCE
- Context:** EXTERNAL
- Source:** EXTERNAL
- Type:** NETWORK
- Category:** ERROR
- Severity:** 2
- Domain:** Know Your Network
- Sub Domain:** Issues

At the bottom of the modal, there are 'Cancel' and 'Publish' buttons. The 'Publish' button is highlighted with a green box. A blue callout box on the right contains the following text:

- This will publish a test event notification, to all your destinations subscribed to it
- The event notification may be customized

Verify Webhook Receiver – continued

The screenshot displays the Cisco Catalyst Center interface with the Event Catalog tab selected. A search for 'bgp' has been performed, showing a list of events. The 'Network Troubleshooting Events' entry is highlighted with a green box. A 'Notification' modal is open, showing details for the event 'Network Device Interface Connectivity - BGP Down' (Event ID: NETWORK-NETWORKS-2-272). The modal lists several notification channels, with 'Network Troubleshooting Events' (REST) highlighted in green. A blue callout box with the text 'Test event notification: Failed, Published, Success' is overlaid on the modal. In the bottom right, a terminal window titled 'webhook_receiver' shows logs. A green box highlights the successful receipt of a webhook payload, including version, instance ID, and event details.

Notification

Event Name
Network Device Interface Connectivity - BGP Down

Event Id
NETWORK-NETWORKS-2-272

Result

Notification	Channel	Status	Message
Interface Events to Splunk Syslog	SYSLOG	SUCCESS	Published
Lab_Events_PA	REST	FAILURE	Bad Gateway
Lab_Notifications_PagerDuty	PAGERDUTY		
Lab_Notifications_Splunk	REST		
Lab_Notifications_Webex	WEBEX		
Network Troubleshooting Events	REST		

Test event notification:
Failed, Published, **Success**

```
Run webhook_receiver
* Debug mode: on
INFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on https://10.93.141.47:5443
INFO:werkzeug:Press CTRL+C to quit
INFO:werkzeug: * Restarting with stat
https://localhost:5443
WARNING:werkzeug: * Debugger is active!
INFO:werkzeug: * Debugger PIN: 771-682-372
INFO:werkzeug:10.93.141.47 - - [27/May/2024 12:24:21] "GET / HTTP/1.1" 401 -
INFO:werkzeug:10.93.141.47 - - [27/May/2024 12:24:29] "GET / HTTP/1.1" 200 -
INFO:werkzeug:10.93.141.47 - - [27/May/2024 12:24:29] "GET /favicon.ico HTTP/1.1" 404 -
INFO:werkzeug:10.24.68.38 - - [27/May/2024 12:24:45] "GET / HTTP/1.1" 401 -
INFO:werkzeug:10.24.68.38 - - [27/May/2024 12:24:51] "GET / HTTP/1.1" 200 -
INFO:werkzeug:10.24.68.38 - - [27/May/2024 12:24:51] "GET /favicon.ico HTTP/1.1" 404 -
INFO:root: Webhook Received
INFO:root:Payload:
INFO:root:{'version': '1.0.0', 'eventId': '51ef677b-1362-4cd0-ad9b-80a1eb351c2d', 'instanceId': 'ff01f3d5-3153-4d43-a27f-7934bd11309e', 'event': {'name': 'Network Device Interface Connectivity - BGP Down', 'id': 'NETWORK-NETWORKS-2-272', 'severity': 2, 'category': 'Network', 'subcategory': 'Network', 'message': 'BGP Down', 'timestamp': '2024-05-27T12:24:51.000Z', 'source': 'Network', 'target': 'Network', 'type': 'Event', 'url': 'https://10.93.141.47:5443/api/v1/events/NETWORK-NETWORKS-2-272'}}
INFO:werkzeug:10.93.141.45 - - [27/May/2024 12:25:25] "POST /troubleshooting HTTP/1.1" 202 -
```

Catalyst Center Webhook Sample Payload

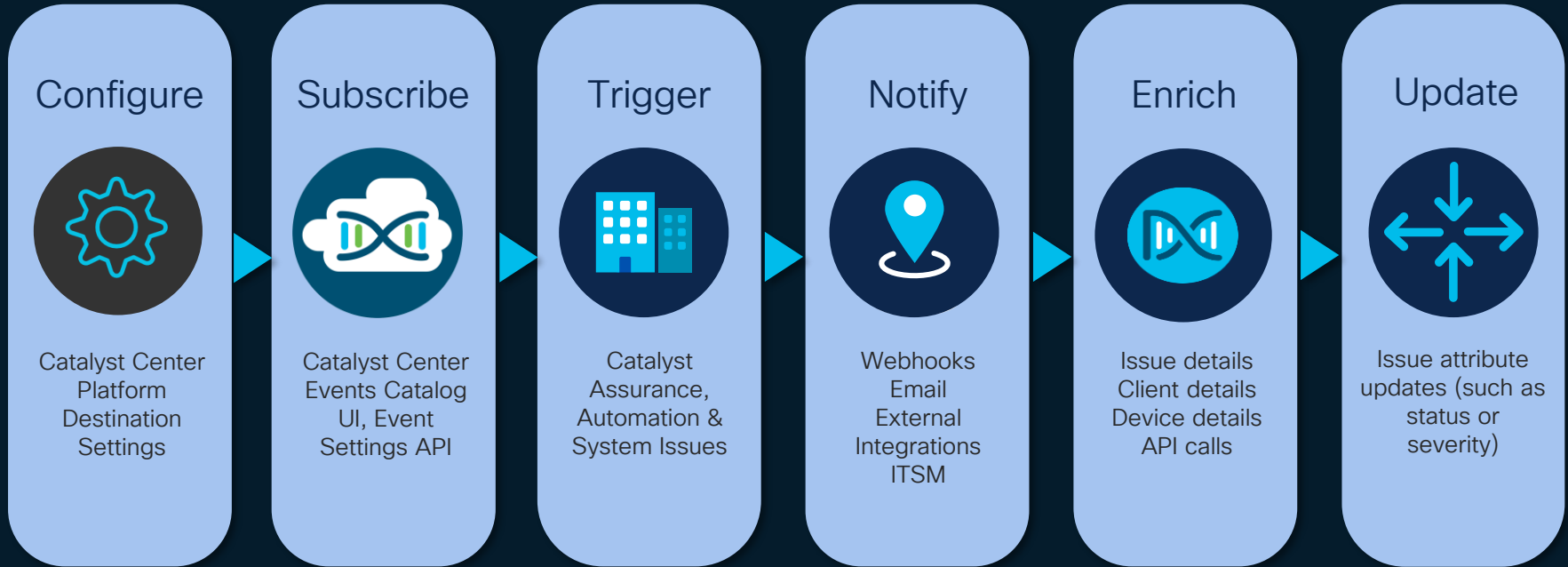
Interface Connecting Network Devices is Down

```
> 10/29/24 { [-]
4:00:14.000 AM category: ALERT
ciscoDnaEventLink: https://10.93.141.45/dna/assurance/issueDetails?issueId=28212418-e79b-4a1d-883b-38c07b430c35
context: null
correlationId: 8f82b5d6-ddb4-4092-981a-076483f9b8ec
description: null
details: { [-]
  Assurance Issue Category: Connectivity
  Assurance Issue Details: Interface GigabitEthernet2 (Interface description: TO_CSR2_GI2) connecting the following two network devices is down: Local Node: PDX-R0, Peer
Node: SP
  Assurance Issue Name: Interface GigabitEthernet2 (Interface description: TO_CSR2_GI2) is Down on Network Device 10.93.141.23
  Assurance Issue Priority: P1
  Assurance Issue Status: active
  Device: 10.93.141.23
  Type: Network Device
}
dnacIP: 10.93.141.45
domain: Connectivity
efInstanceId: f781c658-164c-42f0-8c36-5ada305dd25f
eventHierarchy: null
eventId: NETWORK-NON-FABRIC_WIRED-1-251
i18n: null
instanceId: 28212418-e79b-4a1d-883b-38c07b430c35
message: null
messageParams: null
name: null
namespace: ASSURANCE
network: { [-]
  deviceId: 01f7cdf2-2298-42c7-bb74-dc68e3c3a051
  siteId: /15ab86e1-706e-41df-8400-eet1a974bc1f3/245892a8-21e9-4d30-9e36-67c44a120d3b/15628823-b52e-4564-a39c-36a9d45dc180/17d5b2b9
}
note: To programmatically get more info see here - https://<ip-address>/dna/platform/app/consumer-portal/developer-toolkit/apis?api=
parentInstanceId: null
severity: 1
source: ndp
subDomain: Non-Fabric Wired
timestamp: 1730199854331
type: NETWORK
```

Details Included:

- Cisco Assurance Issue Link
- Issue details: name, description, device management IP Address, priority and status
- Catalyst Center IP Address
- Event Id
- Event unique identifier

Event Notifications Workflow



Assurance Issue Settings

Catalyst Center Assurance / Settings / Issue Settings

Global Profile Custom Profile

System User Defined

DEVICE TYPE: All Router Core, Distribution & Access Controller Access Point Wired Client Wireless Client Application Sensor Third Party Device

CATEGORY: All Onboarding Connectivity Connected Device Availability Utilization Application Sensor Test AP Anomaly System

Search Table

Priority	Issue Name	Issue Resolution	Enabled	Global	Current Setting	Last Modified	Subscription
P3	High input/output utilization on Third Party Device WAN interfaces	Auto	Yes	Yes	Default	--	Subscribed (REST, WEBEX, PAGER_DUTY)
P1	Interface Connecting Network Devices is Down	Auto	Yes	Yes	Default	Jan 18, 2024 5:31 PM	Subscribed (REST, WEBEX, PAGER_DUTY)
P3	Interface is Flapping On Network Device	Auto	Yes	Yes	Default	--	Subscribed (REST, WEBEX, PAGER_DUTY)
P3	Issues based on Syslog events - High Temperature	Manual	Yes	Yes	Default	--	Subscribed (REST)
P3	Issues based on Syslog events - POE	Manual	Yes	Yes	Default	--	Subscribed (REST)
P2	Layer 2 loop symptoms	Manual	Yes	Yes	Default	--	Subscribed (REST)
P2	Map cache limit reached	Manual	Yes	Yes	Default	--	Subscribed (REST)
P3	Network Device HA Switchover	Auto	Yes	Yes	Default	--	Subscribed (REST)
P1	Network Device Interface Connectivity - BGP Down	Auto	Yes	Yes	Custom	Jan 26, 2024 1:38 PM	Subscribed (REST, WEBEX, PAGER_DUTY)

- Provides insights in:
 - Priority
 - Issue auto/manual resolution
 - Enabled and if default config
 - Notification channels
- 86 events are auto resolved in version 2.3.7.6

Changing Assurance Issue Settings

Global Profile Custom Profile

System User Defined

DEVICE TYPE: **AR** Router Core, Distribution & Access Controller Access Point Wired Client Wireless Client Application Sensor

CATEGORY: **AR** Onboarding Connectivity Connected Device Availability Utilization Application Sensor Test AP Anomaly

Q BGP

Priority	Issue Name	Issue Resolution	Enable
P1	Fabric BGP session from Border node to Transit Control Plane node is down	Auto	Yes
P1	Fabric BGP session status is down with Peer Device (per VN)	Auto	Yes
P1	BGP session to Control Plane node down	Auto	Yes
P1	Fabric BGP session status is down with Peer Device	Auto	Yes
P1	BGP Session to Spine Node Down	Auto	Yes
P1	Network Device Interface Connectivity - BGP Down	Auto	Yes
P2	BGP Tunnel Connectivity	Manual	Yes
P2	Network Device Interface Connectivity - BGP Flap		

Network Device Interface Connectivity - BGP Down

This issue configuration is shared on multiple types of network devices, including **Router, Core, Distribution and Access**

BGP connectivity is down with neighbor.

☒ Enabled

Priority: **P2** (dropdown menu showing P1, P2, P3, P4)

Trigger Condition: Time duration BGP on a Router/S generated > 3 minutes

Last Modified: Jan 26, 2024 12:02 pm

View Default Setting

1/26/24 2:45:51.000 PM

```
{ [-]
  category: ERROR
  ciscoDnaEventLink: https://10.93.141.45/dna/assurance/issueDetails?issueId=da2ed6b0-8756-4a7c-a849-73b87db9adf6
  context: null
  description: null
  details: { [-]
    Assurance Issue Category: connectivity
    Assurance Issue Details: Device:PDX-RO ~ BGP is down with neighbor 10.93.131.2
    Assurance Issue Name: BGP is Down on Device PDX-RO with Neighbor 10.93.131.2
    Assurance Issue Priority: P1
    Assurance Issue Status: resolved
    Device: 10.93.141.23
    Type: Network Device
  }
  dnacIp: 10.93.141.45
  domain: Know Your Network
  eInstanceId: 551a31ae-d555-4ef2-8f70-8fe341337907
  eventHierarchy: null
  eventId: NETWORK-NETWORKS-2-272
  i18n: null
  instanceId: da2ed6b0-8756-4a7c-a849-73b87db9adf6
  message: null
  messageParams: null
}
```

- Change Priority P2 to P1
- Enable or disable event
- Options to change the KPIs
- The changes will impact the UI and all notifications channels

Catalyst Center Issue Update

```
> 10/29/24 4:00:14.000 AM { [-]
  category: ALERT
  ciscoDnaEventLink: https://10.93.141.45/dna/assurance/iss
  context: null
  correlationId: 8f82b5d6-ddb4-4092-981a-076483f9b8ec
  description: null
  details: { [-]
    Assurance Issue Category: Connectivity
    Assurance Issue Details: Interface GigabitEthernet2 (In
    following two network devices is down: Local Node: PDX-R0, P
    Assurance Issue Name: Interface GigabitEthernet2 (Inter
  10.93.141.23
    Assurance Issue Priority: P1
    Assurance Issue Status: active
    Device: 10.93.141.23
    Type: Network Device
  }
  dnacIP: 10.93.141.45
  domain: Connectivity
  efInstanceId: f781c658-164c-42f0-8c36-5ada305dd25f
  eventHierarchy: null
  eventId: NETWORK-NON-FABRIC_WIRED-1-251
  i18n: null
  instanceId: 28212418-e79b-4a1d-883b-38c07b430c35
  message: null
  messageParams: null
  name: null
  namespace: ASSURANCE
  network:
    device:
    siteId:
  a39c-36a9d4
}
```

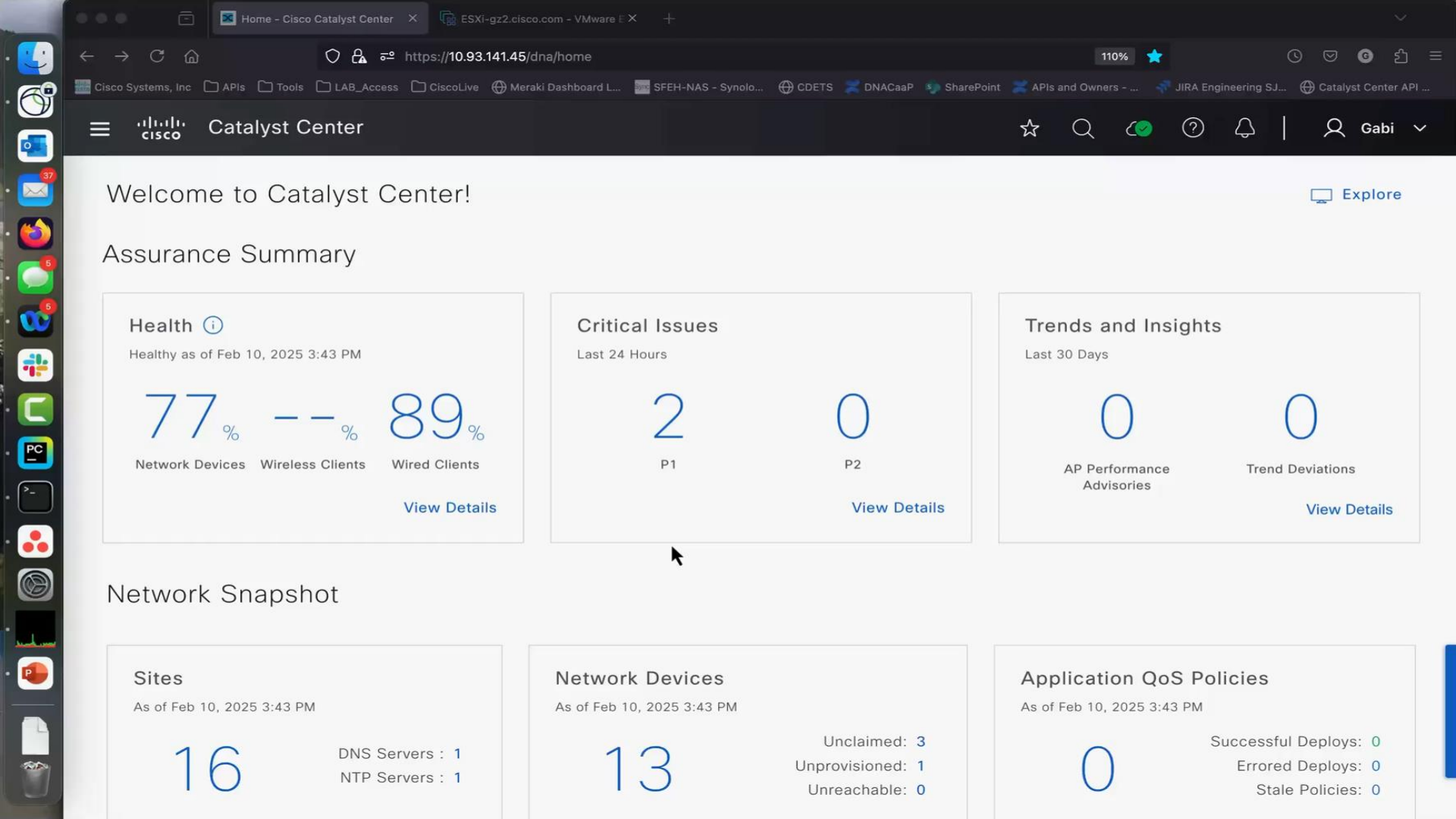
```
> 10/29/24 4:07:59.000 AM { [-]
  category: ALERT
  ciscoDnaEventLink: https://10.93.141.45/dna/assurance/issueDetails?issueId=28212418-e79b-4a1d-883b-38c07b430c35
  context: null
  correlationId: 0427171d-c17e-464b-ade6-16632b0edcd6
  description: null
  details: { [-]
    Assurance Issue Category: Connectivity
    Assurance Issue Details: Interface GigabitEthernet2 (Interface description: TO_CSR2_GI2) connecting the
    following two network devices is down: Local Node: PDX-R0, Peer Node: SP
    Assurance Issue Name: Interface GigabitEthernet2 (Interface description: TO_CSR2_GI2) is Down on Network Device
  10.93.141.23
    Assurance Issue Priority: P1
    Assurance Issue Status: resolved
    Device: 10.93.141.23
    Type: Network Device
  }
  dnacIP: 10.93.141.45
  domain: Connectivity
  efInstanceId: 4c0f0727-253f-4c00-8292-ab6130379192
  eventHierarchy: null
  eventId: NETWORK-NON-FABRIC_WIRED-1-251
  i18n: null
  instanceId: 28212418-e79b-4a1d-883b-38c07b430c35
  message: null
  messageParams: null
  name: null
  namespace: ASSURANCE
  network: null
  note: programmatically get more info see here - https://<ip-address>/dna/platform/app/consumer-portal/
  toolkit/apid=8684-39bb-4e89-a6e4
  parentInstanceId: null
  severity: 1
  source: Cisco DNA Assurance
}
```

Status Changed from **Active** to **Resolve** when:

- Assurance issue auto-resolve
- Resolved by user

Demo Webhook Receiver





Welcome to Catalyst Center!

[Explore](#)

Assurance Summary

Health ⓘ

Healthy as of Feb 10, 2025 3:43 PM

77% --% 89%

Network Devices Wireless Clients Wired Clients

[View Details](#)

Critical Issues

Last 24 Hours

2 0

P1 P2

[View Details](#)

Trends and Insights

Last 30 Days

0 0

AP Performance Advisories Trend Deviations

[View Details](#)

Network Snapshot

Sites

As of Feb 10, 2025 3:43 PM

16 DNS Servers : 1 NTP Servers : 1

Network Devices

As of Feb 10, 2025 3:43 PM

13 Unclaimed: 3 Unprovisioned: 1 Unreachable: 0

Application QoS Policies

As of Feb 10, 2025 3:43 PM

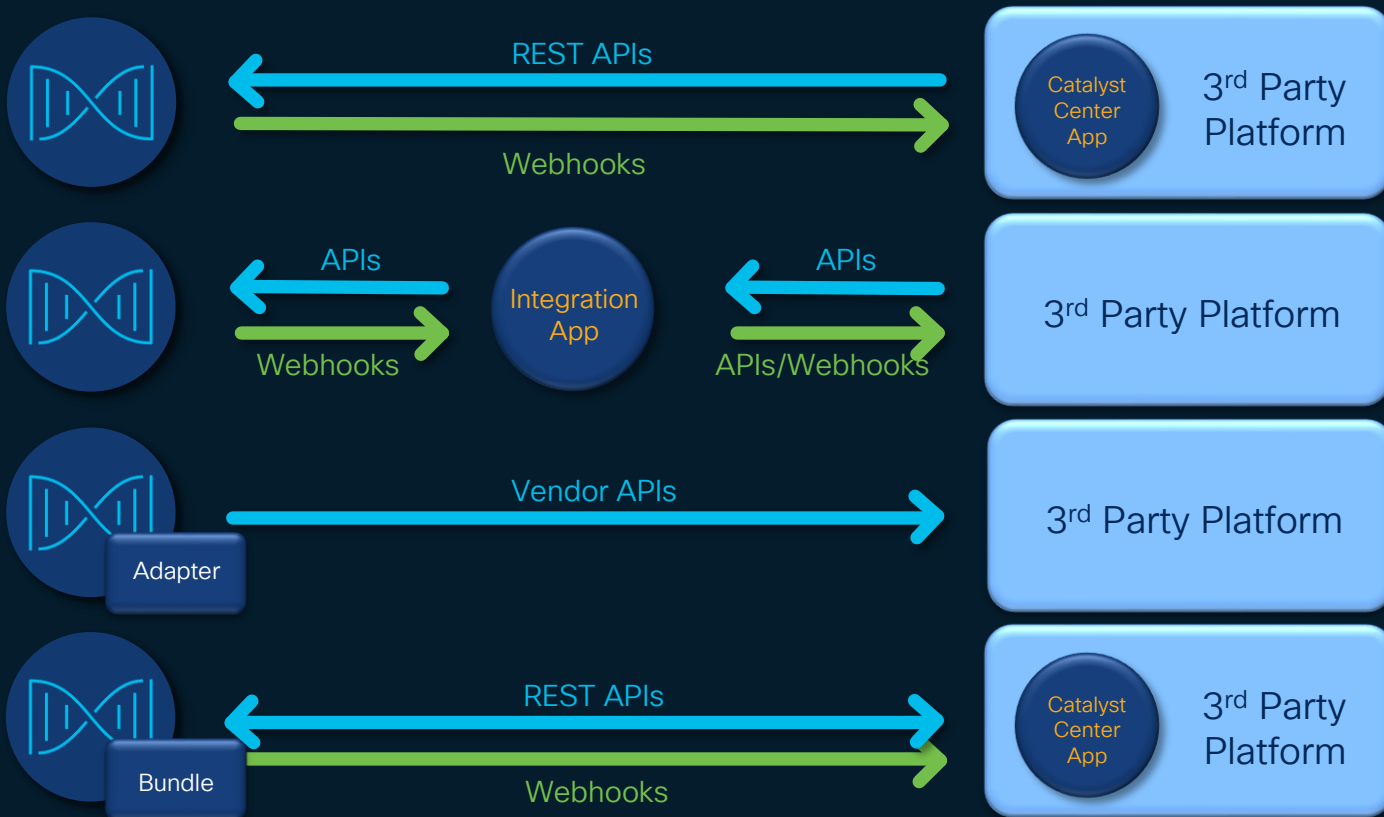
0 Successful Deploys: 0 Errored Deploys: 0 Stale Policies: 0



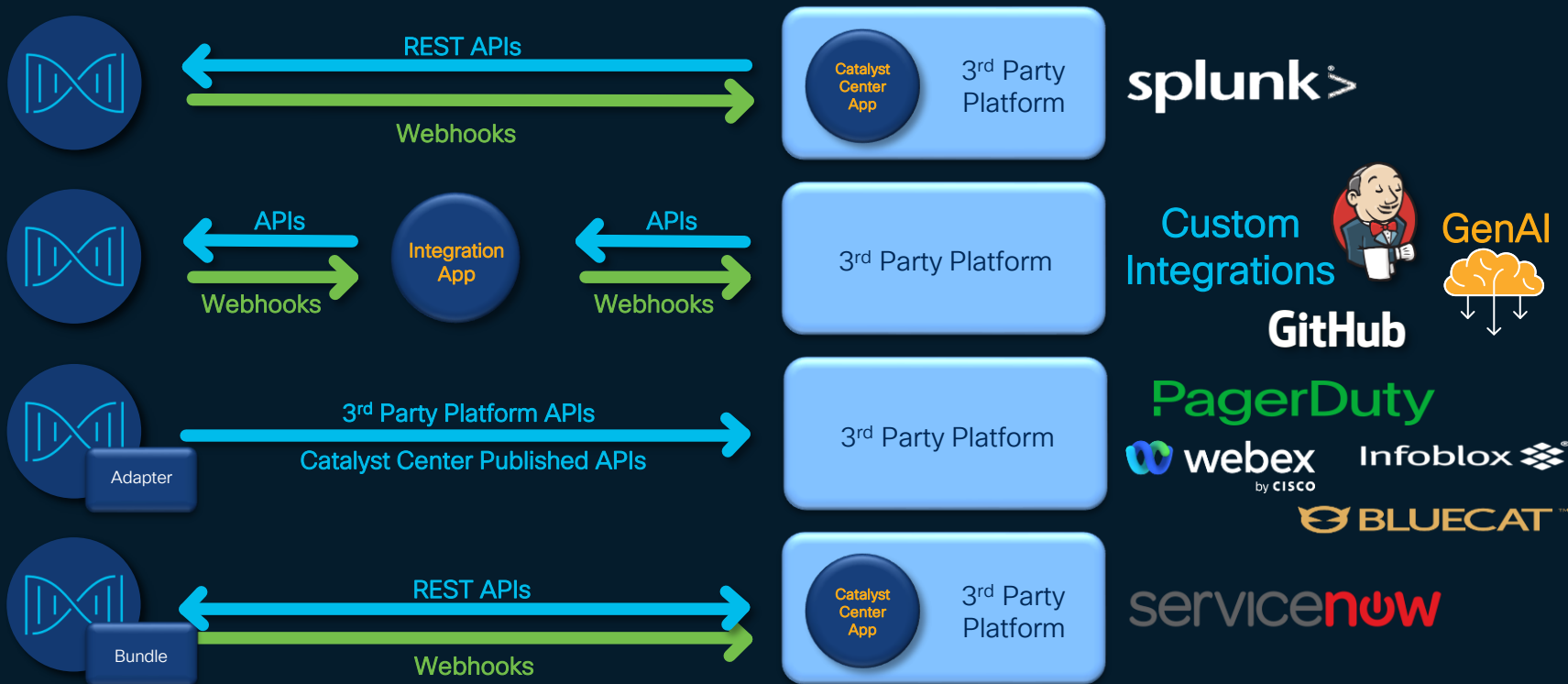
Agenda

- Catalyst Center Platform Overview
- REST APIs
- Event Notifications
- Integrations
- Developer Resources
- Summary

Catalyst Center Integration Options



Catalyst Center Integration Options



How to Integrate with Splunk

- Use the Cisco Catalyst Apps
- Webhook notifications to Splunk HTTP Event Collectors
- Run Python scripts hosted by Splunk
- Syslog messages from Catalyst Center

Data inputs
Set up data inputs from files and directories, network ports, and scripted inputs. If you want to set up forwarding and receiving between two Splunk instances, go to [Forwarding and receiving](#).

Local inputs

Type	Inputs	Actions
Files & Directories Index a local file or monitor an entire directory.	13	+ Add new
HTTP Event Collector Receive data over HTTP or HTTPS.	3	+ Add new
TCP Listen on a TCP port for incoming data, e.g. syslog.	1	+ Add new
UDP Listen on a UDP port for incoming data, e.g. syslog.	2	+ Add new
Scripts Run custom scripts to collect or generate more data.	25	+ Add new
cisco_dnac_clienthealth Go to the add-on's configuration UI and configure modular inputs under the Inputs menu.	2	+ Add new
cisco_dnac_compliance Go to the add-on's configuration UI and configure modular inputs under the Inputs menu.	2	+ Add new

Catalyst Center Splunk Integration Apps

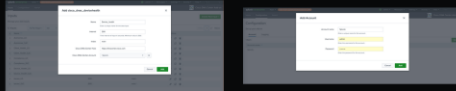


Cisco DNA Center Add-on

The Cisco DNA Center Add-on for Splunk allows a Splunk® Enterprise administrator to collect data from Cisco DNA Center APIs.
Built by Cisco EN Programmability



Login to Download



- Two Apps:
 - Add-on – data collection
 - Visualizations
- Released as an open-source project
- Published on Splunkbase and GitHub
- Support via GitHub issues
- Requires a Splunk user account to be configured on Catalyst Center
- Fully customizable

- Adoption – 1,300+ downloads
- Planned enhancements:
 - Client dashboards
 - Site filtering and UI updates
 - Catalyst Center rebranding



Cisco DNA Center App

Cisco DNA Center and Splunk have partnered to deliver an advanced security reporting and analysis tool. The collaboration delivers operational reporting as well as simplified and configurable dashboard views across Cisco DNA Center.
Built by Cisco EN Programmability



Login to Download



Cisco DNA Center Apps – Splunkbase

<https://splunkbase.splunk.com/>

The screenshot displays the Splunkbase interface for finding apps. At the top, there's a navigation bar with 'splunkbase', 'Collections', 'Apps', a search bar with the text 'Find an app', a 'Submit an App' button, and a 'Log In' button. Below the navigation bar, the main heading is 'Discover Apps'. On the right side, a blue box highlights a 'splunk> Certified' status, indicating 'Splunk version 8.0 → 9.4' and 'App version 1.0.6'. The main content area shows search results for 'Cisco DNA'. On the left, there are filters for 'PLATFORM' (SPLUNK, SPLUNK SOAR) and 'CATEGORY'. The search results show two items: 'Cisco DNA Center App' and 'Cisco DNA Center Add-on', both by Gabriel Zapodeanu. Each item includes a description, platform (Splunk Enterprise, Splunk Cloud), a 5-star rating with the number of reviews (2 and 3 respectively), and a 'DEVELOPER SUPPORTED' badge.

splunkbase Collections Apps Find an app Submit an App Log In

Discover Apps

splunk> Certified
Splunk version 8.0 → 9.4
App version 1.0.6

PLATFORM Showing 1-2 of 2 Results for Cisco DNA X Sort by Sort By Best Match

- ☐ SPLUNK
 - > PRODUCT
 - > VERSION
- ☐ SPLUNK SOAR
 - > PRODUCT
 - > VERSION

CATEGORY

Cisco DNA Center App

By Gabriel Zapodeanu

Cisco DNA Center and Splunk have partnered to deliver an advanced security reporting and analysis tool. Th...

PLATFORM Splunk Enterprise, Splunk Cloud

RATING ★★★★★ (2)

DEVELOPER SUPPORTED APP

Cisco DNA Center Add-on

By Gabriel Zapodeanu

The Cisco DNA Center Add-on for Splunk allows a Splunk® Enterprise administrator to collect data from Cisc...

PLATFORM Splunk Enterprise, Splunk Cloud

RATING ★★★★★ (3)

DEVELOPER SUPPORTED ADDON

Catalyst Center Splunk Integration Apps



REST
APIs

Cisco
Catalyst
Add-on
App

Cisco
Catalyst
App

Multi Catalyst Center
clusters integrated with
Splunk supported

Name	Interval	Index	Status	Actions
advisories_DNAWired	3600	main	Enabled	[Edit] [Delete]
advisories_LO2	3600	main	Enabled	[Edit] [Delete]
client_health_DNAWired	300	main	Enabled	[Edit] [Delete]
client_health_LO2	300	main	Enabled	[Edit] [Delete]
compliance_DNAWired	900	main	Enabled	[Edit] [Delete]
compliance_LO2	900	main	Enabled	[Edit] [Delete]
device_health_DNAWired	300	main	Enabled	[Edit] [Delete]
device_health_LO2	300	main	Enabled	[Edit] [Delete]
issues_DNAWired	900	main	Enabled	[Edit] [Delete]
issues_LO2	900	main	Enabled	[Edit] [Delete]

Save data
to index

sourcetype	Values	Count	%
cisco-dna:compliance	18,287	27.8925	
syslog	13,175	20.8895	
cisco-dna:devicehealth	11,738	17.8535	
cisco-dna:securityquery	8,788	13.3245	
cisco-dna:clienthealth	8,538	12.9995	
netevent	5,748	8.8375	
cisco-dna:issue	1,858	2.8315	
cisco-dna:networkhealth	518	0.7885	

Query/Search
index/input

Demo Splunk Integration



Camtasia 2024

File Edit Modify Text View Export Window Help

10.93.141.37:8000/en-US/app/Splunk_CiscoDNACenter/cisco_dna_center_overview?form.timeRangePicker2.earliest=-24h%40h&form.timeRangePicker2.latest=n

120%

splunk>enterprise

Apps

DEVTEST:GZAPODEA@CISCO.COM

admin

Messages

Settings

Activity

Help

Find

Cisco DNA Center

Dashboards

Search

Cisco DNA Center

Cisco Catalyst Center Overview

Edit

Export

Time Range

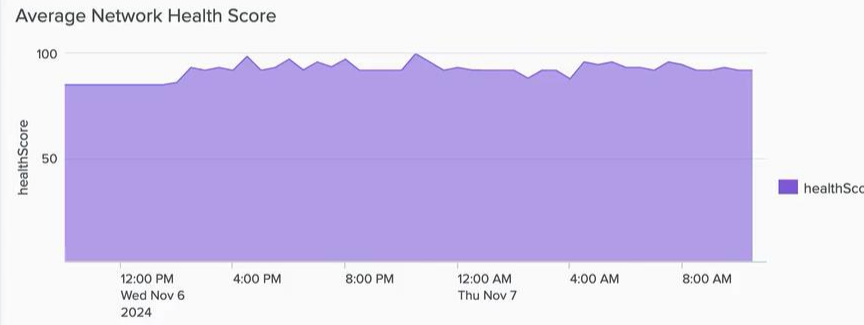
Last 24 hours

Cisco Catalyst Center Host

https://10.93.141.45

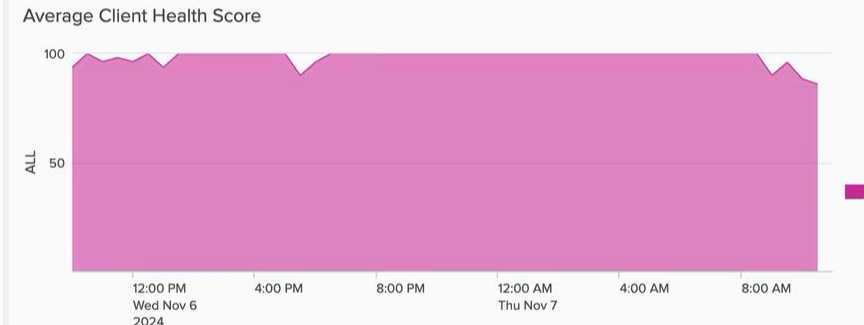
Hide Filters

Average Network Health Score



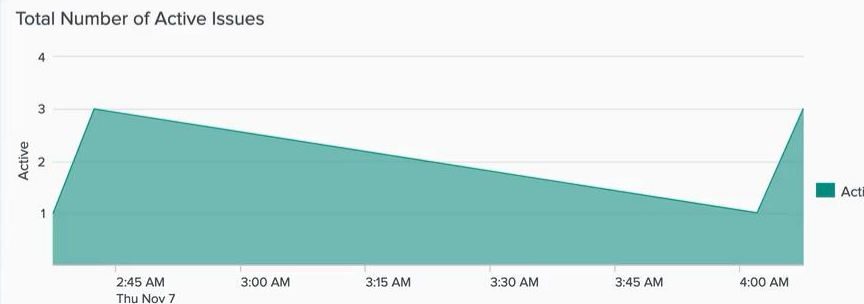
Time	healthScore
12:00 PM Wed Nov 6 2024	85
4:00 PM	95
8:00 PM	90
12:00 AM Thu Nov 7	95
4:00 AM	90
8:00 AM	95

Average Client Health Score



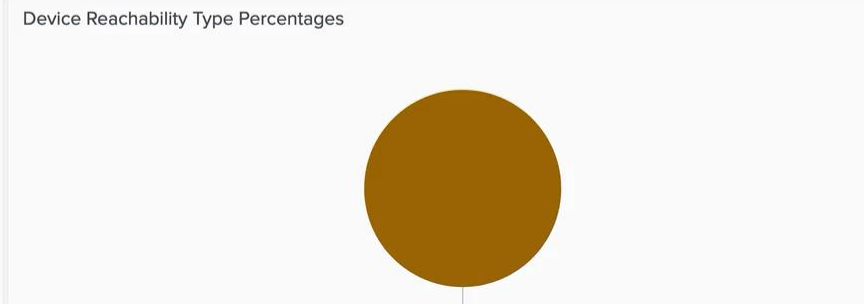
Time	ALL
12:00 PM Wed Nov 6 2024	95
4:00 PM	90
8:00 PM	95
12:00 AM Thu Nov 7	95
4:00 AM	90
8:00 AM	85

Total Number of Active Issues



Time	Active
2:45 AM Thu Nov 7 2024	3
3:00 AM	2
3:15 AM	1
3:30 AM	1
3:45 AM	1
4:00 AM	3

Device Reachability Type Percentages



Type	Percentage
Reachable (100.00%)	100.00%

New Cisco EN Splunk Integration Apps

The screenshot shows the Splunkbase interface for the 'Cisco Catalyst Add-on for Splunk'. At the top, there's a navigation bar with 'splunkbase', 'Collections', 'Apps', a search bar, and buttons for 'Submit an App' and 'Log In'. The main content area features the Cisco logo and the app title. Below the title is a description: 'Cisco Catalyst Add-on for Splunk collects data for different Cisco Products - **Cisco Identity Services Engine**, **Cisco Catalyst SD-WAN**, and **Cisco Catalyst Center**. The add-on parses the data from these sources and stores them into the Splunk indexes. * Author: Cisco EN Programmability'. A 'Login to Download' button is visible. On the left sidebar, there are sections for 'Latest Version 1.0.0' (September 10, 2024), 'Compatibility' (Splunk Enterprise, Splunk Cloud, Platform Version: 9.3, 9.2, CIM Version: 5.X), and 'Rating' (0 stars).

- Integrate with ISE, Catalyst SD-WAN and Catalyst Center
- Apps – Visualizations and Add-on for data collection
- Apps released September 10, 2024, updates pending
- Splunk Enterprise + Cloud certified

The screenshot shows the Splunkbase interface for the 'Cisco Enterprise Networking for Splunk Platform'. The layout is similar to the previous app page. The main content area features the Cisco logo and the app title. Below the title is a description: 'The **Cisco Enterprise Networking for Splunk Platform** presents visualizations in dashboards for different Cisco Products - **Cisco Identity Services Engine**, **Cisco Catalyst SD-WAN**, and **Cisco Catalyst Center**. The App uses the data collected by "Cisco Catalyst Add-on for Splunk". Built by Cisco EN Programmability'. A 'Login to Download' button is visible. On the left sidebar, there are sections for 'Latest Version 1.0.0' (September 10, 2024), 'Compatibility' (Splunk Enterprise, Splunk Cloud, Platform Version: 9.3, 9.2, CIM Version: 5.X), 'Rating' (0 stars), 'Support' (Developer Supported App), and 'Ranking' (#6 in Network Access Control, #26 in Firewall).



Agenda

- Catalyst Center Platform Overview
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Catalyst Center API Journey



Cisco API
platform launch



Python SDK



Ansible
collection



Ansible
RedHat certified
Terraform provider
Jenkins open-
source



Ansible community
certification
Intent Ansible
modules introduced



Python SDK,
Ansible, Terraform
Support for
Catalyst Center
2.3.5.3



AI enabled use
cases
Support for
Catalyst Center
2.3.7.6

2018

2019

2020

2021

2022

2023

2024/2025

API adoption



2 billion API calls per year, 45% customers



850+ APIs available (300+ new APIs in 2.3.7.6)



269 events and 65 reports

DevOps resources



Python SDK – 16,000 downloads/month



Ansible collection – 84,000 downloads

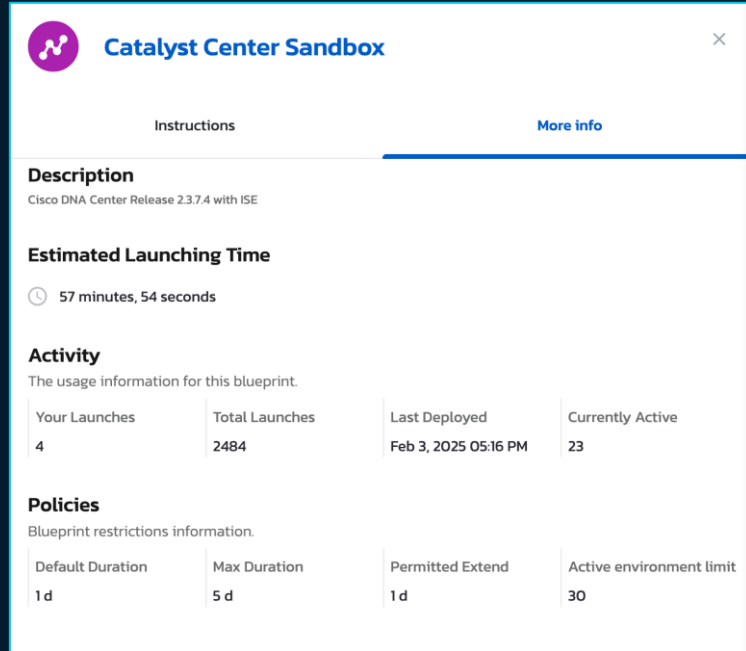


Terraform provider – 47,000 downloads

30 Catalyst Center DevNet sandboxes

https://devnetsandbox.cisco.com/DevNet/catalog/catalyst-center-sandbox_catalyst-center

DevNet Catalyst Center Sandboxes



The screenshot shows the 'Catalyst Center Sandbox' interface. It includes a 'Description' section with the text 'Cisco DNA Center Release 2.3.7.4 with ISE'. Below this is the 'Estimated Launching Time' of '57 minutes, 54 seconds'. The 'Activity' section provides usage information for the blueprint, including a table with 'Your Launches' (4), 'Total Launches' (2484), 'Last Deployed' (Feb 3, 2025 05:16 PM), and 'Currently Active' (23). The 'Policies' section lists blueprint restrictions, including a table with 'Default Duration' (1 d), 'Max Duration' (5 d), 'Permitted Extend' (1 d), and 'Active environment limit' (30).

Your Launches	Total Launches	Last Deployed	Currently Active
4	2484	Feb 3, 2025 05:16 PM	23

Default Duration	Max Duration	Permitted Extend	Active environment limit
1 d	5 d	1 d	30

- 30 Catalyst Center DevNet sandboxes
- Include virtual Catalyst Center 2.3.7.4, ISE, CML, and 4 Cat9kV switches
- Unrestricted access to all Catalyst Center APIs
- Build and test your IaC workflows
- Develop your custom integrations
- Free

https://devnetsandbox.cisco.com/DevNet/catalog/catalyst-center-sandbox_catalyst-center

Catalyst Center Python SDK

dnacentersdk

Simple, lightweight, scalable Python API wrapper for the DNA Center APIs

Welcome to the docs! dnacentersdk is *community developed* Pythonic wrapping of the DNA Center APIs (for API versions: 2.2.2, 2.1.0, 2.0.0, 1.0.0 and 2.3.7.6). The package represents all of the Cisco DNA Center API interactions via native Python tools. Making work *native and natural* experience.

dnacentersdk helps you get things done faster. We take care of the API semantics, and you can focus on writing

With dnacentersdk, you can easily:

- Interact with the DNA Center APIs in an interactive Python session
- Quickly create code that enables you get something done in DNA Center
- Leverage the API wrapper to cleanly add DNA Center functionality to your project without having to write the APIs

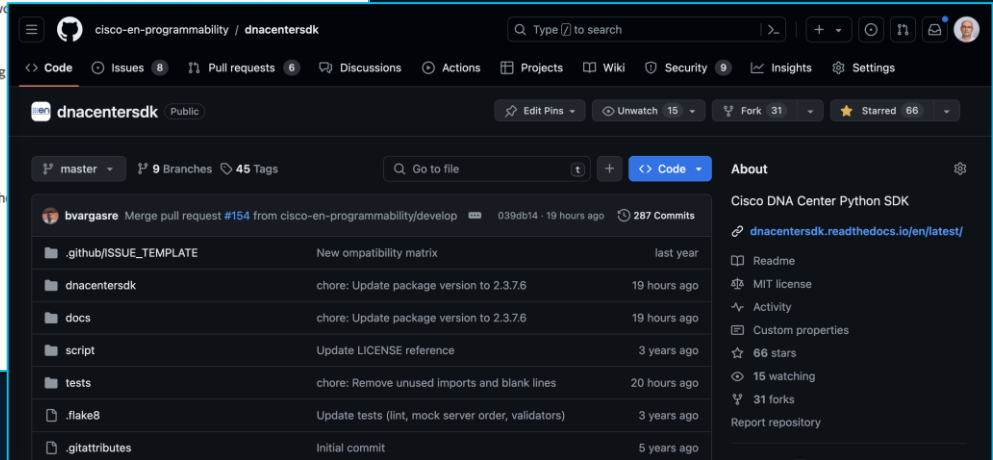
To dive in and see how dnacentersdk makes your life better, check out the [Quickstart!](#)

The User Guide

- Installation

<https://dnacentersdk.readthedocs.io>
<https://catalystcentersdk.readthedocs.io>

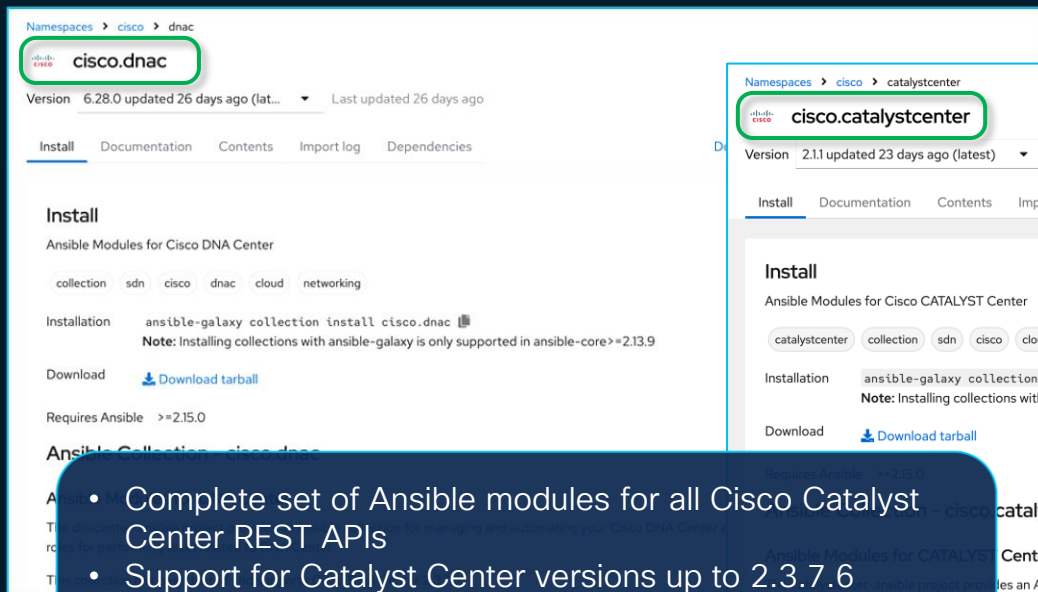
- Covers all Cisco Catalyst Center REST APIs
- Support for Catalyst Center versions up to 2.3.7.6
- CatalystCenterSDK rebranded library released
- Average downloads/month 16,000+



<https://github.com/cisco-en-programmability/dnacentersdk>

Cisco Catalyst Center Ansible Collection

<https://galaxy.ansible.com/ui/repo/published/cisco/dnac>



Namespaces > cisco > dnac

cisco.dnac

Version 6.28.0 updated 26 days ago (lat... Last updated 26 days ago

Install Documentation Contents Import log Dependencies

Install

Ansible Modules for Cisco DNA Center

collection sdn cisco dnac cloud networking

Installation ansible-galaxy collection install cisco.dnac ⓘ

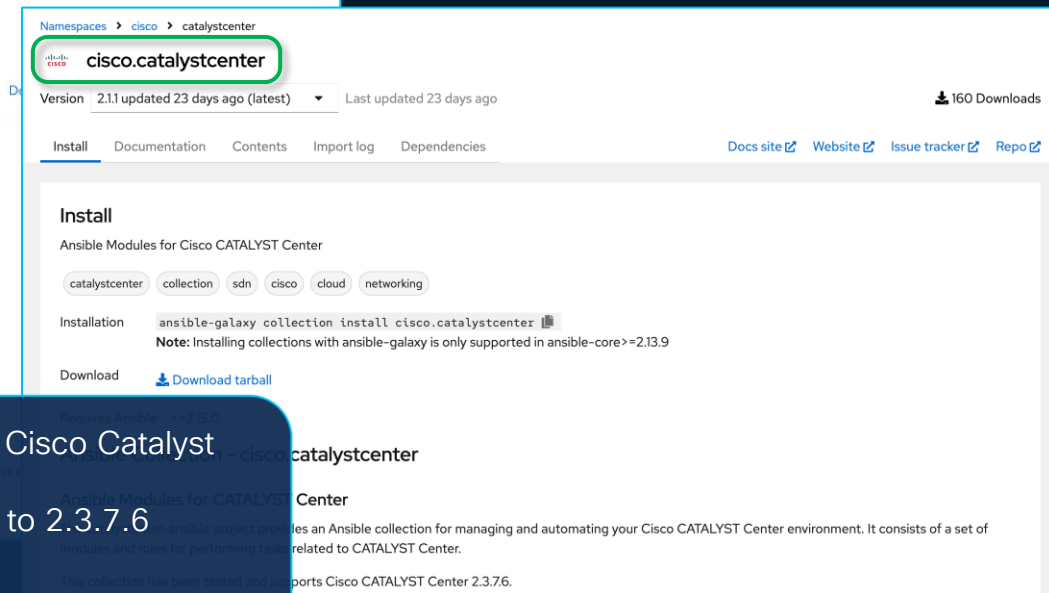
Note: Installing collections with ansible-galaxy is only supported in ansible-core >= 2.13.9

Download [Download tarball](#)

Requires Ansible >= 2.15.0

Ansible Collection - cisco.dnac

<https://galaxy.ansible.com/ui/repo/published/cisco/catalystcenter/>



Namespaces > cisco > catalystcenter

cisco.catalystcenter

Version 2.1.1 updated 23 days ago (latest) Last updated 23 days ago 160 Downloads

Install Documentation Contents Import log Dependencies Docs site Website Issue tracker Repo

Install

Ansible Modules for Cisco CATALYST Center

catalystcenter collection sdn cisco cloud networking

Installation ansible-galaxy collection install cisco.catalystcenter ⓘ

Note: Installing collections with ansible-galaxy is only supported in ansible-core >= 2.13.9

Download [Download tarball](#)

Requires Ansible >= 2.15.0

Ansible Collection - cisco.catalystcenter

Ansible Modules for CATALYST Center

This Ansible project provides an Ansible collection for managing and automating your Cisco CATALYST Center environment. It consists of a set of modules and roles for performing tasks related to CATALYST Center.

This collection has been tested and supports Cisco CATALYST Center 2.3.7.6.

- Complete set of Ansible modules for all Cisco Catalyst Center REST APIs
- Support for Catalyst Center versions up to 2.3.7.6
- 84,000+ downloads
- 30% increase in last 3 Months
- Libraries may be found

<https://github.com/cisco-en-programmability>

Cisco Developed; TAC/Engineering Supported

Namespaces > cisco > catalystcenter > Content

cisco.catalystcenter

Version 2.1.1 updated 23 days ago (latest) Last updated 23 days ago 160 Downloads

Install Documentation **Contents** Import log Dependencies [Docs site](#) [Website](#) [Issue tracker](#) [Repo](#)

Q workflow_manager X

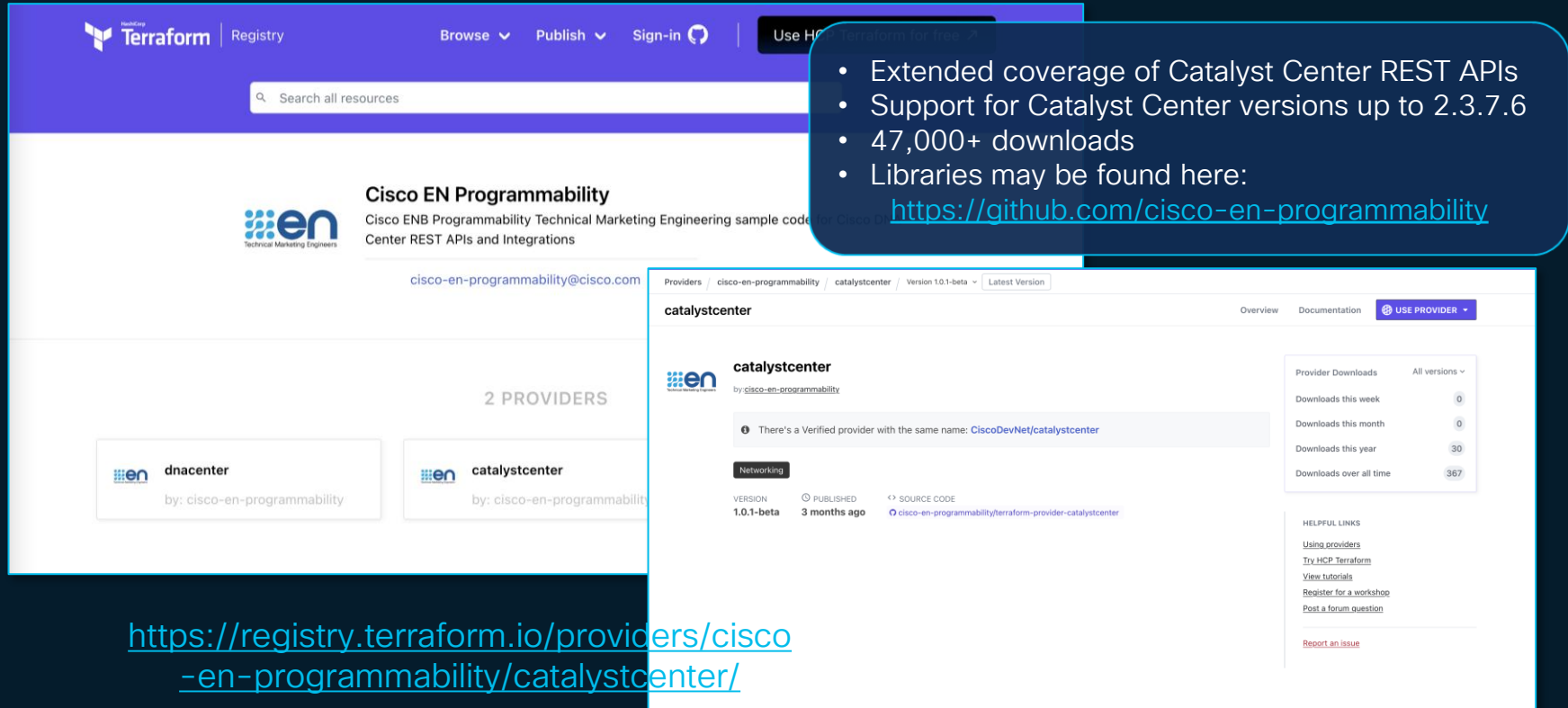
Showing: All (37) **Playbook (13)** **Module (23)** Module_utils (0) Action (0) Doc_fragments (1)

Name	Type	Description
sda_fabric_sites_zones_workflow_manager	module	Manage fabric site(s)/zone(s) and update the authentication profile template in Cisco Catalyst Center
pnp_workflow_manager	module	Resource module for Site and PnP related functions
swim_workflow_manager	module	Module to manage SWIM (Software Image Management) operations in Cisco Catalyst Center
network_settings_workflow_manager	module	Resource module for IP Address pools and network functions
sda_fabric_virtual_networks_workflow_manager	module	Configure fabric VLANs, Virtual Networks, and Anycast Gateways in Cisco Catalyst Center.
site_workflow_manager	module	Resource module for Site operations
sda_fabric_devices_workflow_manager	module	Manage SDA fabric devices in Cisco Catalyst Center.
device_credential_workflow_manager	module	Resource module for Global Device Credentials and Assigning Credentials to sites.
discovery_workflow_manager	module	A resource module for handling device discovery tasks.

- Support starting with Cisco Catalyst Center version 2.3.7.6
- Identified with the module name including “workflow_manager”
- Ansible playbooks for common operations for sites, PnP, SWIM, compliance, templates, network settings, ...

Terraform Provider and Go SDK

<https://registry.terraform.io/providers/cisco-en-programmability/dnacenter>



The screenshot displays the Terraform Registry interface. The main header includes the Terraform logo, 'Registry', and navigation links: 'Browse', 'Publish', 'Sign-in', and 'Use HCP Terraform'. A search bar is present. The main content area shows the 'Cisco EN Programmability' profile, which includes the Cisco ENB logo and a description: 'Cisco ENB Programmability Technical Marketing Engineering sample code for Cisco Center REST APIs and Integrations'. Below this, it lists '2 PROVIDERS': 'dnacenter' and 'catalystcenter', both by 'cisco-en-programmability'. The 'catalystcenter' provider page is expanded, showing details: 'VERSION 1.0.1-beta', 'PUBLISHED 3 months ago', and 'SOURCE CODE' link to 'cisco-en-programmability/terraform-provider-catalystcenter'. A 'Provider Downloads' section shows: 'Downloads this week: 0', 'Downloads this month: 0', 'Downloads this year: 30', and 'Downloads over all time: 367'. A 'HELPFUL LINKS' section includes: 'Using providers', 'Try HCP Terraform', 'View tutorials', 'Register for a workshop', 'Post a forum question', and 'Report an issue'.

- Extended coverage of Catalyst Center REST APIs
- Support for Catalyst Center versions up to 2.3.7.6
- 47,000+ downloads
- Libraries may be found here: <https://github.com/cisco-en-programmability>

<https://registry.terraform.io/providers/cisco-en-programmability/catalystcenter/>

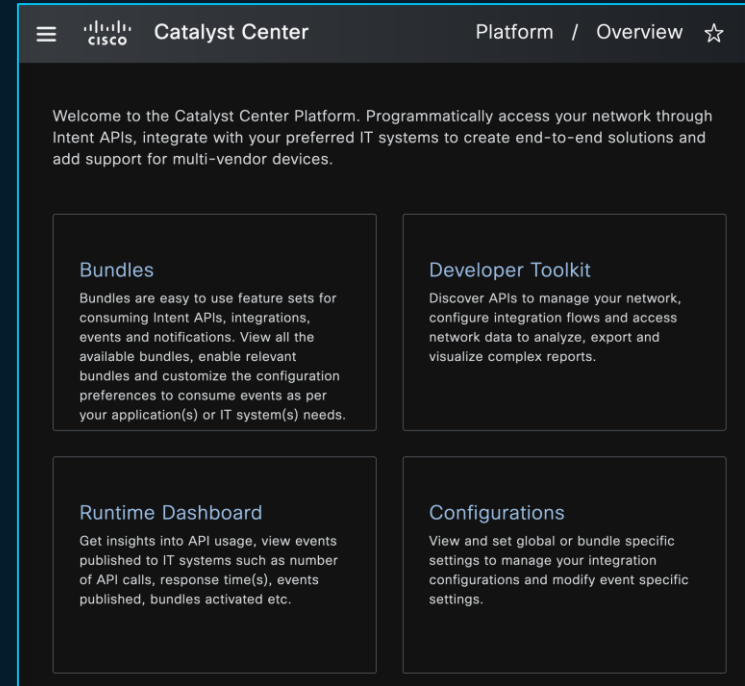


Agenda

- Catalyst Center Platform Overview
- REST APIs
- Event Notifications
- Integrations
- Developer Resources
- Summary

Catalyst Center APIs, Events, Integrations

- Manage Catalyst Center and infrastructure efficiently, consistent and at scale
- Real-time insights and notifications with webhooks
- Rich Assurance data available via APIs
- Ready-to-use Integrations or build custom integrations
- Enable GenAI use cases



Catalyst Center Platform Sessions

Session	Title	Room	Date
TECOPS-2158	Cisco Catalyst Center Out-of-the-Box and Custom Integrations	Lab 9 - G107	February 09 1:30 PM
DEVNET-3000	Open-Source GenAI Bot for Catalyst Center	DevNet Theater 1	February 11 3:00 PM
DEVNET-1087	Cisco Catalyst Center Platform: APIs, Event Notifications, Integrations, and DevOps Resources	DevNet Theatre 2	February 12 9:30 AM
IBOOPS-2882	Let's Talk about Cisco Catalyst Center Integrations	Session Room D508	February 12 4:00 PM
BRKOPS-3429	Simplify Network Management using GenAI and Cisco Catalyst Center APIs	Session Room A6	February 13 10:30 AM
DEVNET-3419	Transform your Network Automation Apps with GenAI	DevNet Theater 1	February 12 2:30 PM

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(from 11:30 on Thursday, while supplies last)



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- Visit the On-Demand Library for more sessions at ciscolive.com/on-demand. Sessions from this event will be available from March 3.



Thank you



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GO BEYOND

The background of the slide features a series of overlapping, teardrop-shaped elements in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are arranged in a way that creates a sense of depth and movement, resembling a stylized horizon or a series of waves. The overall composition is clean and modern, with a focus on the central text.