



Cisco Catalyst Center Platform: APIs, Event Notifications, Integrations, and DevOps Resources

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Webex App

Questions?

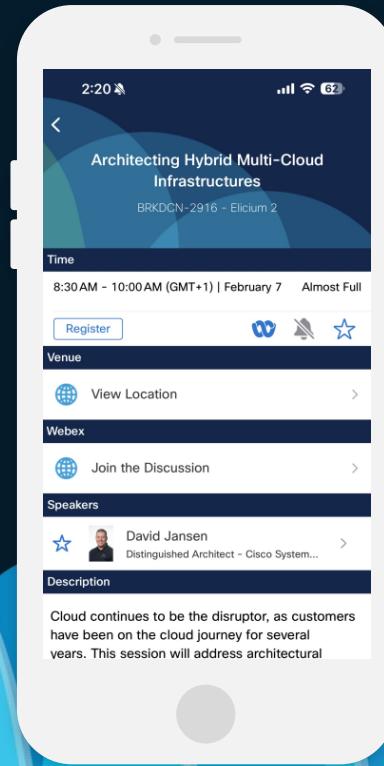
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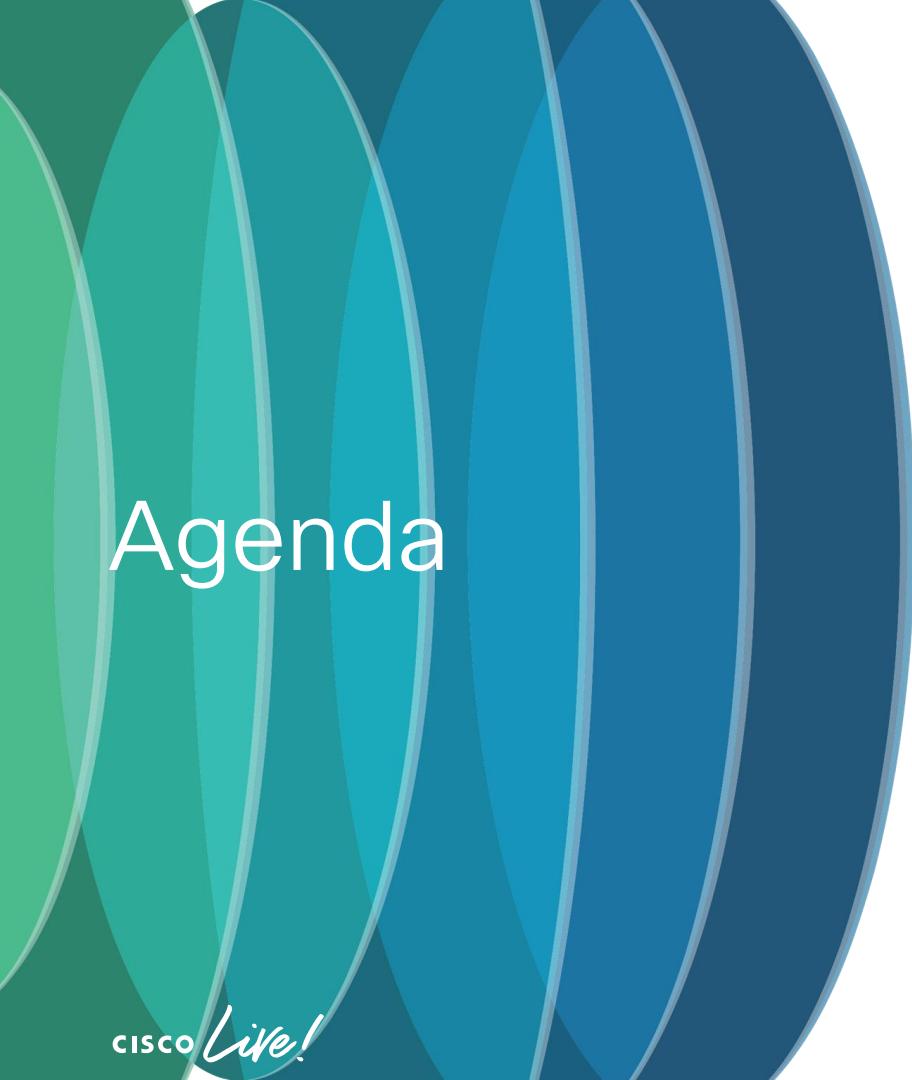
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Agenda

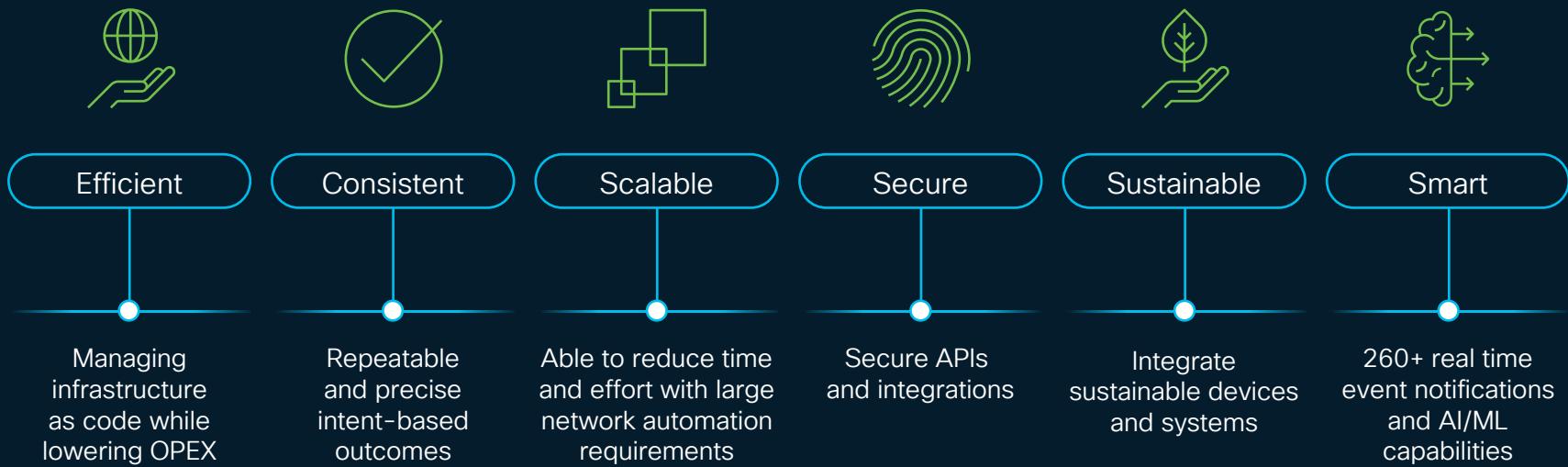
- Catalyst Center Platform Overview
- REST APIs
- Event Notifications
- Integrations
- Developer Resources
- Summary

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Agenda

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Catalyst Center Platform Vision



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

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

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 Call an API without writing any code

850+ APIs, Version 2.3.7.7
Download the OpenAPI Specs from DevNet

850+ APIs, Version 2.3.7.7
Download the OpenAPI Specs from DevNet

Try

Review API docs, configure integration workflows and subscribe to events

API docs for multiple versions of Catalyst Center may be found on [DevNet](#)

Get summary analytics data related to network devices

Query assurance events

Delete Device by Id

/dnac/data/api/v1/assuranceEvents

/network-device/\${id}

/network-device

Try an API Call

The screenshot shows a web-based interface for making API calls. The title bar says "Catalyst Center" and the page title is "Get Device list". The main content area has a heading "Try 'Get Device list'". Below it, it says "Method: GET" and "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

Response Headers Status Code: 200

```
1  {
2    "response": [
3      {
4        "type": "Cisco Catalyst 9300 Switch",
5        "lastUpdateTime": "1705537690563",
6        "macAddress": "30:80: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       "bootDateTime": "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"
28     }
29   ]
30 }
```

Reset Run

Code Preview

The screenshot shows the Cisco Catalyst Center API documentation for the 'Get Device Count' endpoint. The URL is `https://10.93.141.45/dna/intent/api/v1/network-device/count`. The description states: 'Returns the count of network devices based on the filter criteria by management IP address, mac address, hostname and location name'. Below the description are tabs for 'Parameters', 'Features', 'Responses', and 'Code Preview'. A green box highlights the 'Code Preview' tab. A modal window titled 'Code Preview' is displayed, containing the text 'Generate code in few programming languages'. The 'Language' dropdown is set to 'Python', and a code snippet for Python is shown:

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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 siteld 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', 'PO site, so list contains 'SITE' only

groupHierarchy (string, optional): Site hierarchy by instance UUID (e.g. b27181bb-211b-40ec-ba5d-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

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

Async APIs Workflow

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

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)

1



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

Get Business API Execution Details

GET [https://10.93.141.45/dna/intent/api/v1/dnacaaip/management/execution-status/\\${executionId}](https://10.93.141.45/dna/intent/api/v1/dnacaaip/management/execution-status/${executionId})

Retrieves the execution details of a Business API

Cisco DevNet API Guide

Parameters Responses Code Preview

✓ 200

The request was successful. Response contains the execution details of the Business API for the given Execution Id.

Schema Sample

✓ **root** (map, optional): Business API Execution Details

- bapiKey** (string, required): Business API Key (UUID)
- bapiName** (string, required): Name of the Business API
- bapiExecutionId** (string, required): Execution Id of the Business API (UUID)
- startTime** (string, required): Execution Start Time of the Business API (Date Time Format)
- startTimeEpoch** (integer, required): Execution Start Time of the Business API (Epoch Milliseconds)
- endTime** (string, required): Execution End Time of the Business API (Date Time Format)
- endTimeEpoch** (integer, required): Execution End Time of the Business API (Epoch Milliseconds)
- timeDuration** (integer, required): Time taken for Business API Execution (Milliseconds)
- status** (string, required, enum: SUCCESS, FAILURE, IN_PROGRESS, PENDING_FOR_EXECUTION): Execution status of the Business API
- runtimeInstanceId** (string, required): Pod Id in which the Business API is executed

3

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 500 API calls/minute
- Continuous improvement for concurrency limits by API redesign

The image shows two API documentation pages from the Cisco DevNet API Guide.

Device Compliance Status (GET):
https://10.93.141.45/dna/intent/api/v1/compliance/\${deviceUuid}
Return compliance status of a device.
Cisco DevNet API Guide
TAGS: CMP
Policies (highlighted with a green box)
Code Preview
Response Rate Limiting: Allow 100 requests per MINUTE

Get Device Interface Stats Info (POST):
https://10.93.141.45/dna/intent/api/v2/networkDevices/\${deviceid}/interfaces/query
This API returns the Interface Stats for the given Device Id. Please refer to the Feature tab for the Request Body usage and the API filtering support.
Cisco DevNet API Guide
TAGS: InterfaceStats, Stats, interface, Device Interface, Assurance
Policies (highlighted with a green box)
Code Preview
Response Rate Limiting: Allow 500 requests per MINUTE

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

Add Port assignment for user device in SDA Fabric

POST https://10.93.141.45/dna/intent/api/v1/business/sda/hostonboarding/user-device

Add Port assignment for user device in SDA Fabric.

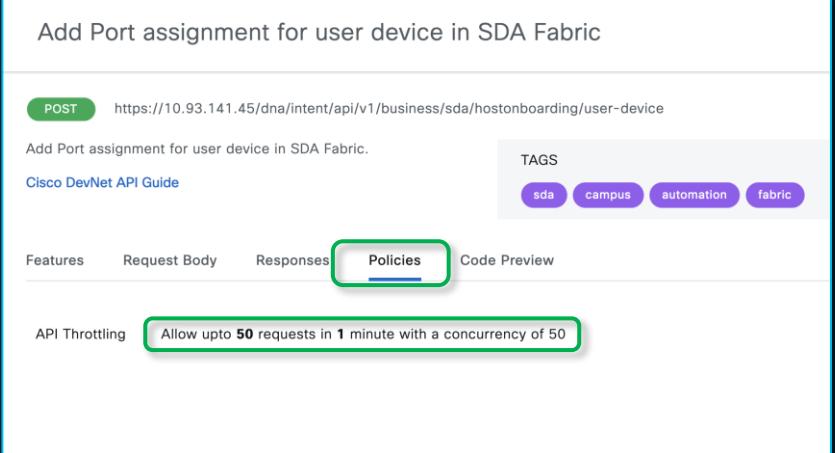
Cisco DevNet API Guide

TAGS

sda campus automation fabric

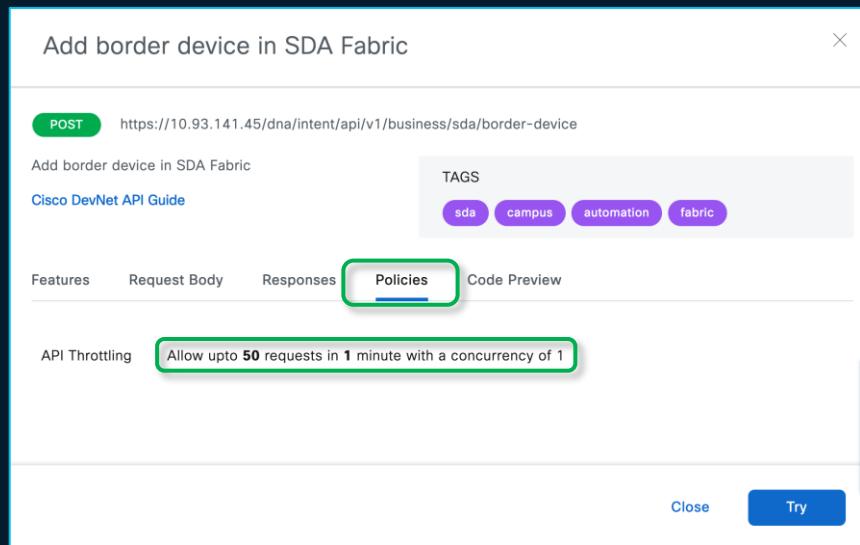
Features Request Body Responses Policies Code Preview

API Throttling Allow upto **50** requests in **1** minute with a concurrency of **50**



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

Create sites

POST https://10.93.141.45/dna/intent/api/v1/sites/bulk

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.

Cisco DevNet API Guide

TAGS Network Hierarchy

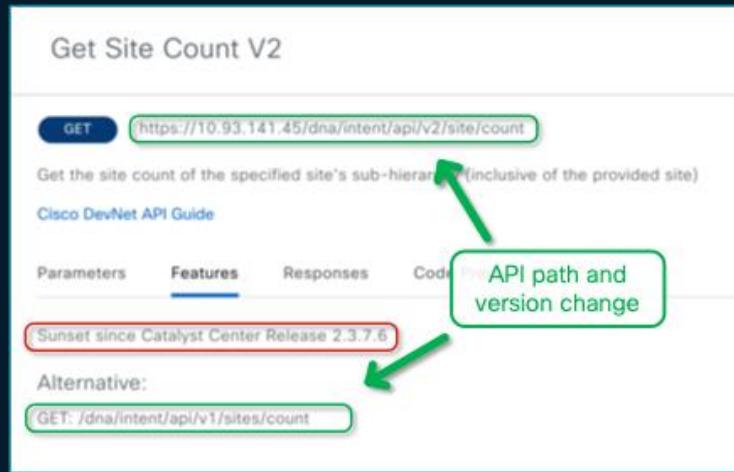
Parameters Request Body Responses Policies Code Preview

Request payload to create area/building/floor together in bulk. Either latitude/longitude or address is required to create building.

Schema Sample

```
1 - []
2 - [
3 -   {
4 -     "parentNameHierarchy": "string",
5 -     "name": "string",
6 -     "latitude": "number",
7 -     "longitude": "number",
8 -     "address": "string",
9 -     "country": "string",
10 -    "floorNumber": "integer",
11 -    "rfModel": "string",
12 -    "width": "number",
13 -    "length": "number",
14 -    "height": "number",
15 -    "unitsOfMeasure": "string",
16 -    "type": "string"
17 -  }
18 - ]
```

API Lifecycle Management



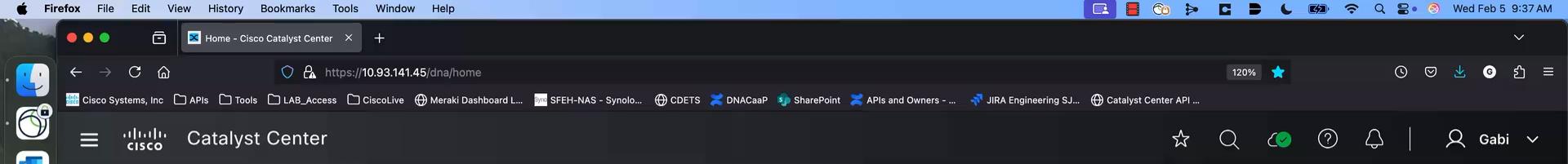
The screenshot shows the 'Get Site Count V2' API endpoint. It includes the following details:

- Method:** GET
- URL:** <https://10.93.141.45/dna/intent/api/v2/site/count>
- Description:** Get the site count of the specified site's sub-hierarchy (inclusive of the provided site)
- Category:** Cisco DevNet API Guide
- Features:** Parameters, Responses, Code Examples
- Notes:** Sunset since Catalyst Center Release 2.3.7.6
- Alternative:** GET: /dna/intent/api/v1/sites/count

Two green arrows point to specific sections: one from the URL to a callout box labeled 'API path and version change', and another from the sunset note to the alternative endpoint.

- **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



Welcome to Catalyst Center!

Assurance Summary

Health

Healthy as of Feb 5, 2025 9:36 AM

77 %

-- %

89 %

Network Devices

Wireless Clients

Wired Clients

[View Details](#)

Critical Issues

Last 24 Hours

1

P1

0

P2

[View Details](#)

Trends and Insights

Last 30 Days

0

AP Performance Advisories

0

Trend Deviations

[View Details](#)

Network Snapshot

Sites

As of Feb 5, 2025 9:36 AM

16

DNS Servers : 1
NTP Servers : 1

[Add Sites](#)

Network Devices

As of Feb 5, 2025 9:36 AM

13

Unclaimed: 3
Unprovisioned: 1
Unreachable: 0

[Find New Devices](#)

Application QoS Policies

As of Feb 5, 2025 9:37 AM

0

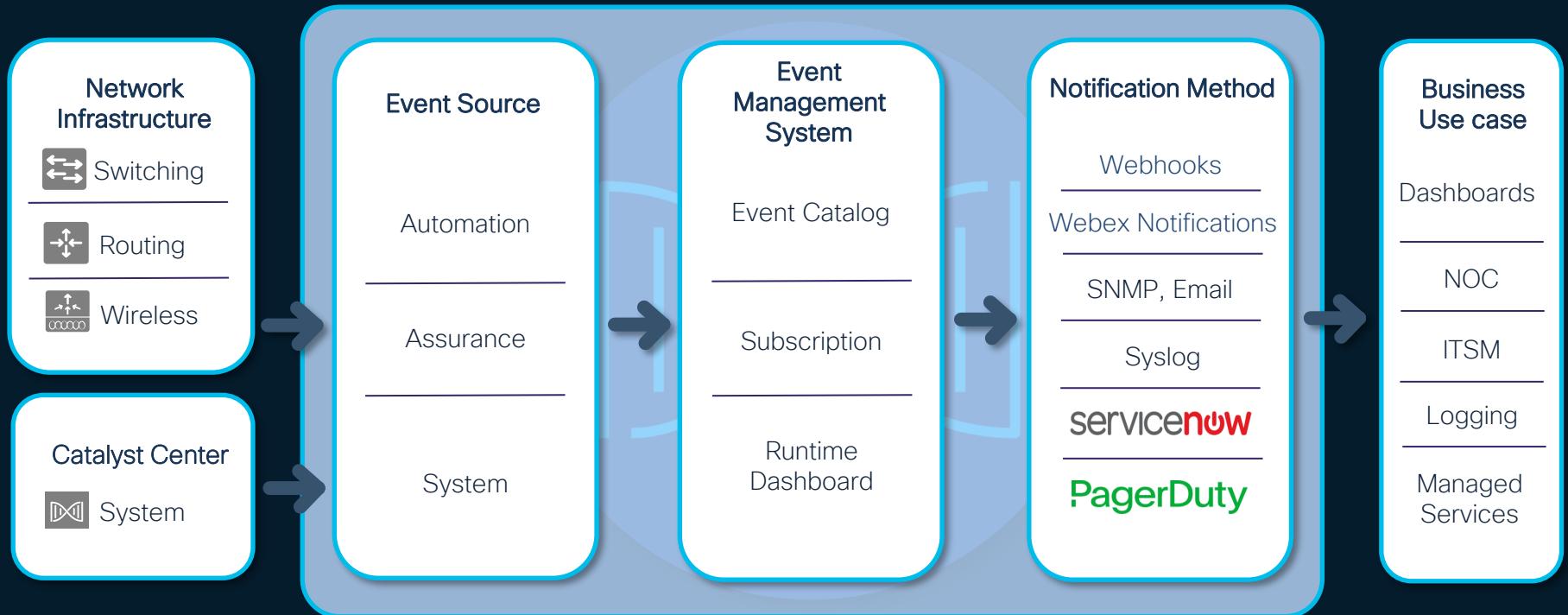
Successful Deploy: 0
Errored Deploy: 0
Stale Policies: 0

[Add New Policy](#)

Agenda

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

Event Notifications Framework



269 Events in Different Areas ...



Event Catalog

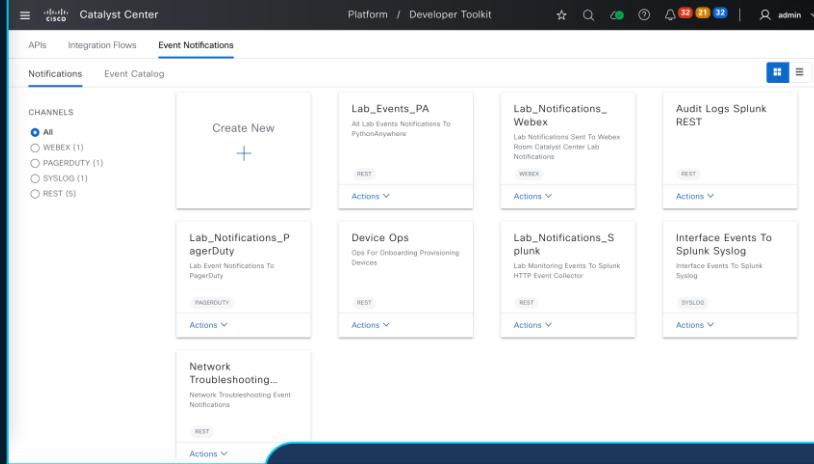
The screenshot shows the Catalyst Center interface with the 'Platform / Developer Toolkit' tab selected. The 'Event Notifications' tab is highlighted with a green border. A callout box on the right side contains the following text:

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

Event ID	Description	Type	Severity	Count
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

Event Catalog - Notifications Channels



The screenshot shows the 'Event Catalog' section of the Cisco Catalyst Center. On the left, a sidebar lists 'CHANNELS' with 'All' selected, showing 11 items: WEBEX (1), PAGERDUTY (1), SYSLOG (1), and REST (5). Below this are sections for 'Lab_Notifications_PagerDuty', 'Device Ops', 'Lab_Notifications_Splunk', and 'Network Troubleshooting'. The main area displays a grid of notification channels:

- Lab_Events_PA: All Lab Events Notifications To PythonAnywhere (REST)
- Lab_Notifications_Webex: Lab Notifications Sent To Webex (WEBEX)
- Audit Logs Splunk: REST
- Interface Events To Splunk Syslog: Interface Events To Splunk Syslog (SYSLOG)
- Lab_Notifications_PA: All Lab Events Notifications To PythonAnywhere (REST)
- Device Ops: Ops For Onboarding Provisioning Devices (REST)
- Lab_Notifications_Splunk: Lab Monitoring Events To Splunk HTTP Event Collector (REST)
- Network Troubleshooting: Network Troubleshooting Event Notifications (REST)

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?issueId=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?issueId=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?issueId=456a67f0-5743-4808-8980-e85ed3b2db48"}  
{"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?issueId=b16fd046-4352-46c8-830a-f1b0636f5eb9"}
```

Create a new Webhook Destination

The screenshot shows the Catalyst Center interface with the following details:

- Left Sidebar:** Includes links for Search, 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 (selected), 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.
- Header:** Catalyst Center, System / Settings
- Page Title:** Destinations
- Page Description:** Configure various types of destinations to deliver event notifications from Catalyst Center Platform
- Destinations Tab:** Webhook (selected), Email, Syslog, SNMP, ITSM
- Configure the REST Endpoint:** Name (Splunk HEC, Troubleshooting Webhook Receiver, PythonAnywhere)
- Details (highlighted in blue box):**
 - Name
 - Description
 - URL
 - Trust Certificate – yes/no
 - Method – POST or PUT
 - Authentication
 - Save
- Right Panel (Edit Webhook):**
 - Name:** Troubleshooting Webhook Receiver
 - Description:** Webhooks destination for troubleshooting
 - URL:** <https://10.93.141.47:5443/troubleshooting>
 - Trust Certificate:** No (radio button selected)
 - Method:** POST
 - Authentication:** Basic (radio button selected)
 - Headers:** Authorization: Basic YWRtaW4=
- Bottom Right:** Update button

Verify Webhook Receiver

The screenshot shows the Cisco Catalyst Center interface, specifically the Developer Toolkit section for Event Notifications. On the left, a list of subscribed events is shown, with a search bar for 'bgp'. A blue callout box highlights the following steps:

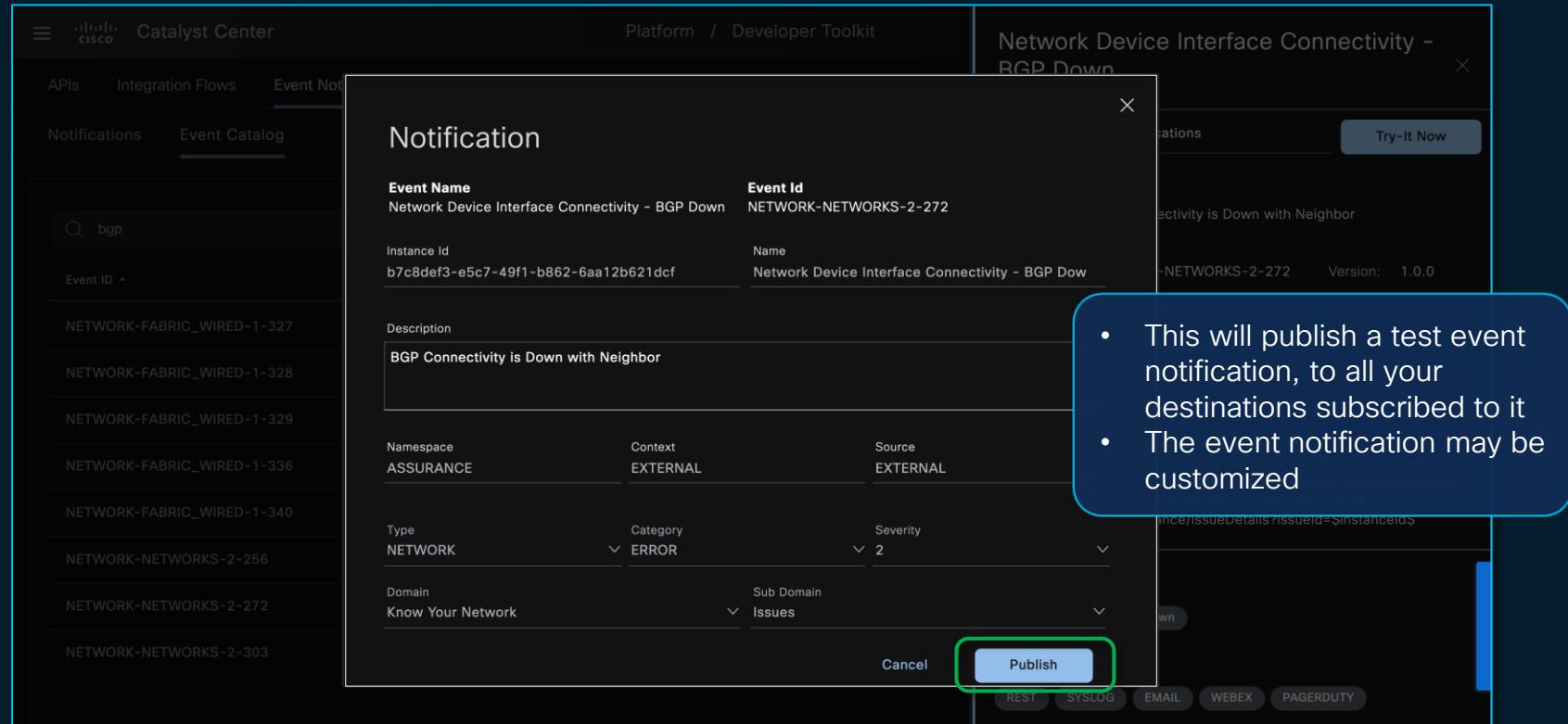
- Search for subscribed events
- Select one event
- “Try-it Now” will send an event notification to all destinations subscribed to the event
- The payload is a test payload, not identical with the real event notification payload

On the right, a detailed view of an event titled "Network Device Interface Connectivity - BGP Down" is displayed. The "Try-It Now" button is highlighted with a yellow box. The event details include:

- 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?apilid=8684-39bb-4e89-a6e4>
- Event Link: [https://<ip-address>/dna/assurance/issueDetails?issueId=\\$instanceId\\$](https://<ip-address>/dna/assurance/issueDetails?issueId=$instanceId$)

Below the event details are sections for TAGS (ASSURANCE, BGP_Down) and CHANNELS (REST, SYSLOG, EMAIL, WEBEX, PAGERDUTY).

Verify Webhook Receiver - continued



The screenshot shows the Cisco Catalyst Center Developer Toolkit interface. On the left, there's a sidebar with 'Event Notifications' selected. The main area displays a 'Notification' dialog for an event named 'Network Device Interface Connectivity - BGP Down'. The dialog includes the following details:

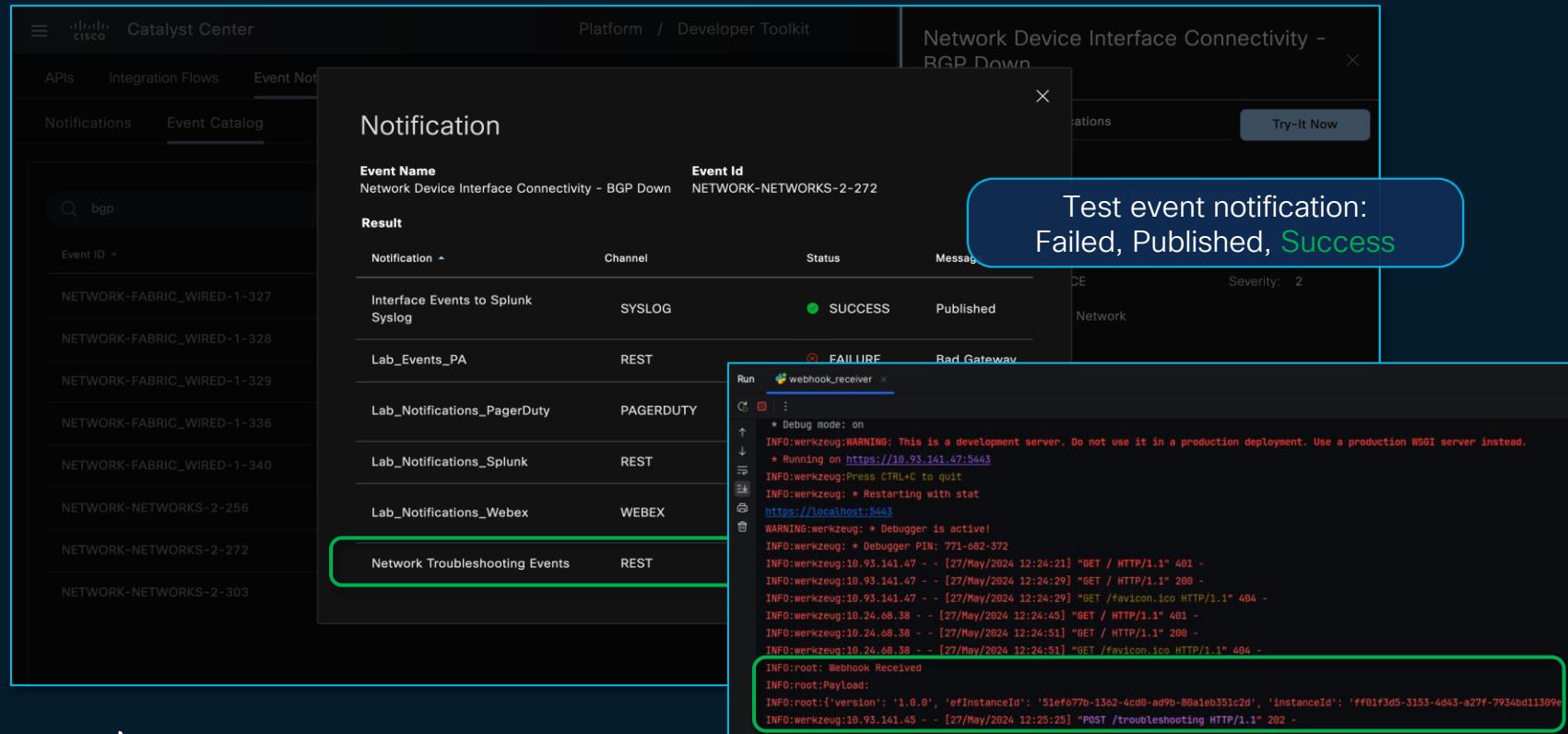
- Event Name:** Network Device Interface Connectivity - BGP Down
- Event Id:** NETWORK-NETWORKS-2-272
- Instance Id:** b7c8def3-e5c7-49f1-b862-6aa12b621dcf
- Description:** BGP Connectivity is Down with Neighbor
- Namespace:** ASSURANCE
- Context:** EXTERNAL
- Source:** EXTERNAL
- Type:** NETWORK
- Category:**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

At the bottom of the dialog, there are 'Cancel' and 'Publish' buttons. The 'Publish' button is highlighted with a green border. To the right of the dialog, a blue rounded rectangle encloses the entire dialog area. A callout box with a blue border and white text points to the 'Publish' button, containing the following list:

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

Below the dialog, there are buttons for different destinations: REST, SYSLOG, EMAIL, WEBEX, and PAGERDUTY.

Verify Webhook Receiver - continued



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
* Running on https://10.93.141.47:5443
INFO:werkzeug:Press CTRL+C to quit
INFO:werkzeug: * Restarting with stat
INFO: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', 'efInstanceId': '51ef677b-1362-4cd8-ad9b-80a1eb351c2d', 'instanceId': 'ff01f3d5-3153-4d43-a27f-7934bd11309e'
INFO:werkzeug:10.93.141.45 - - [27/May/2024 12:25:25] "POST /troubleshooting HTTP/1.1" 202 -
```

Catalyst Center Webhook Sample Payload

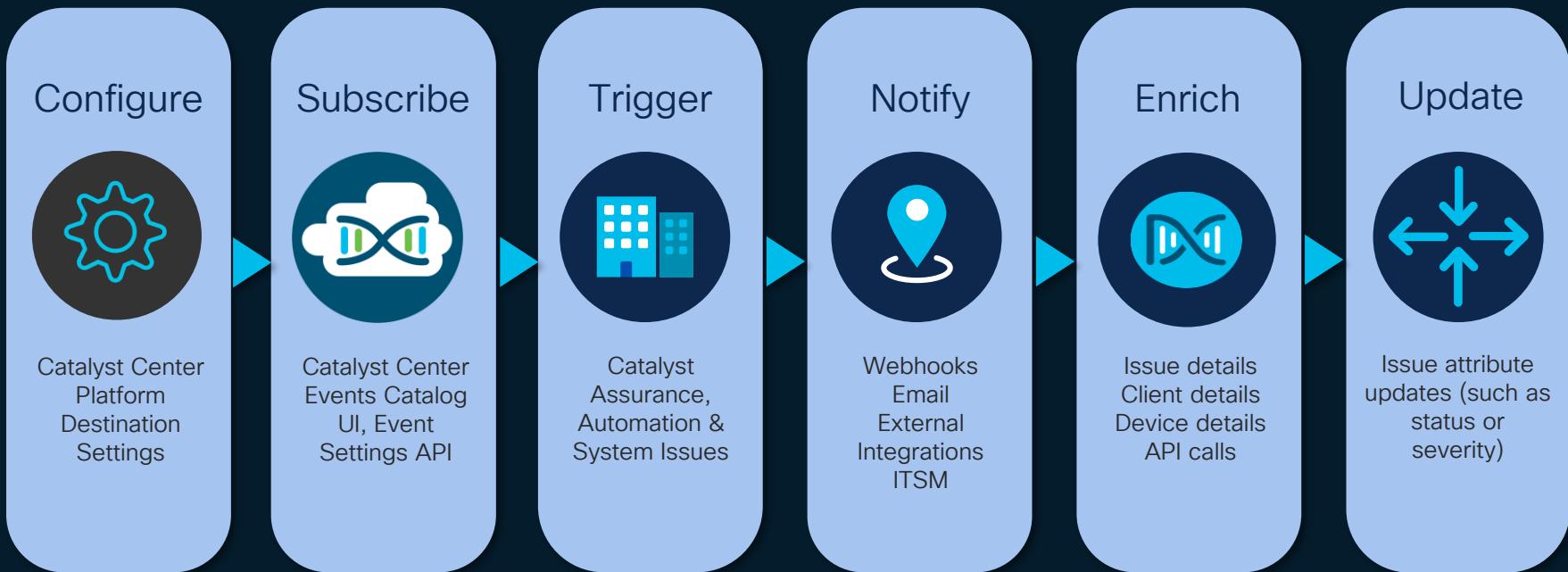
Interface Connecting Network Devices is Down

```
> 10/29/24 { [-] category: ALERT
4:00:14:000 AM 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: T0_CSR2_GI2) connecting the following two network devices is down: Local Node: PDX-RO, Peer
  Node: SP
  Assurance Issue Name: Interface GigabitEthernet2 (Interface description: T0_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
eventId: 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-ee1a974bc1f3/245892a8-21e9-4d30-9e36-67c44a120d3b/15628823-b52e-4564-a39c-36a9d45dc180/17d5b2b9-0722-4320-9d00-00c1a770f93d/
}
note: To programmatically get more info see here - https://<ip-address>/dna/platform/app/consumer-portal/developer-toolkit/apis?apiId=8f82b5d6-ddb4-4092-981a-076483f9b8ec
parentInstanceId: null
severity: 1
source: ndp
subDomain: Non-Fabric Wired
timestamp: 173019854331
type: NETWORK
```

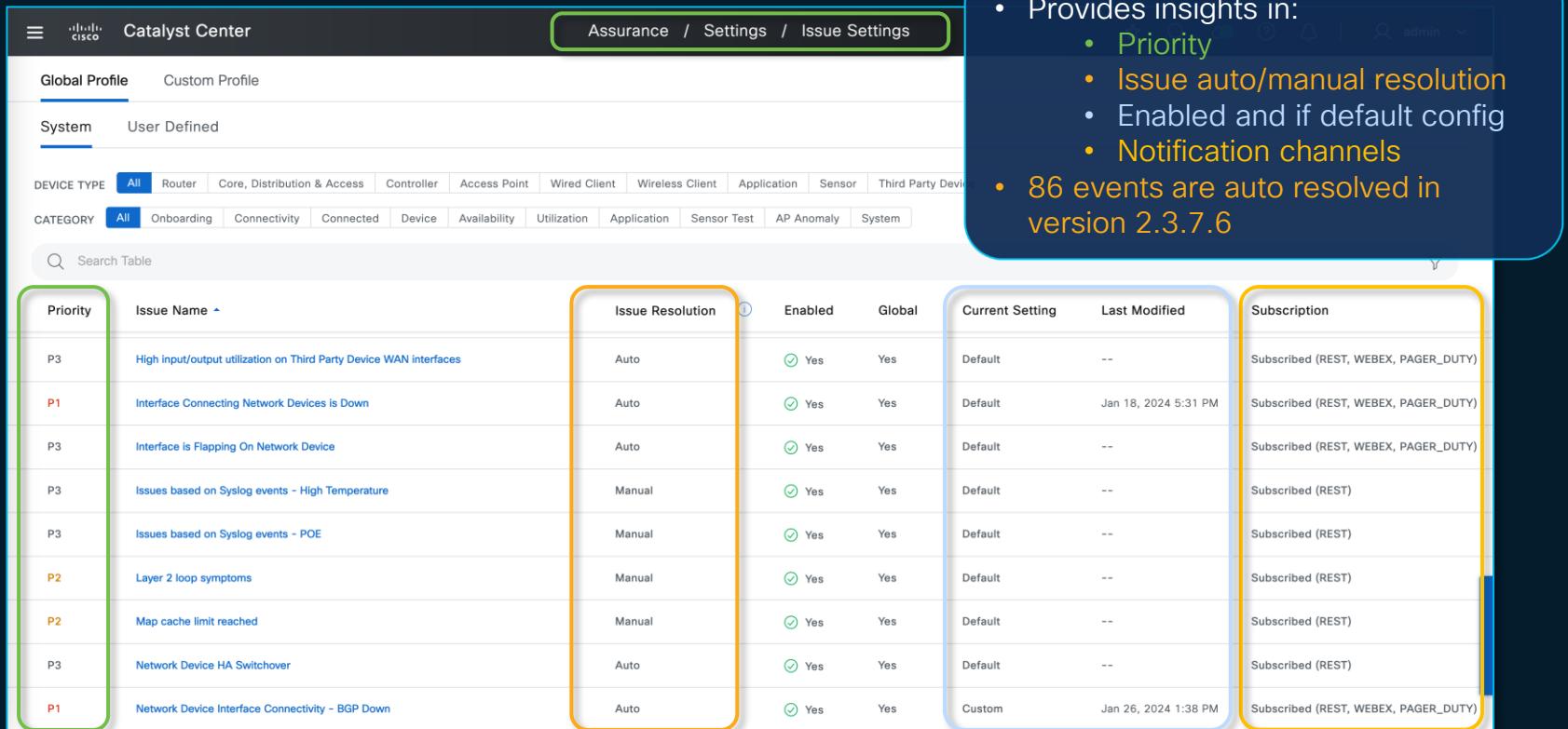
Details Included:

- 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

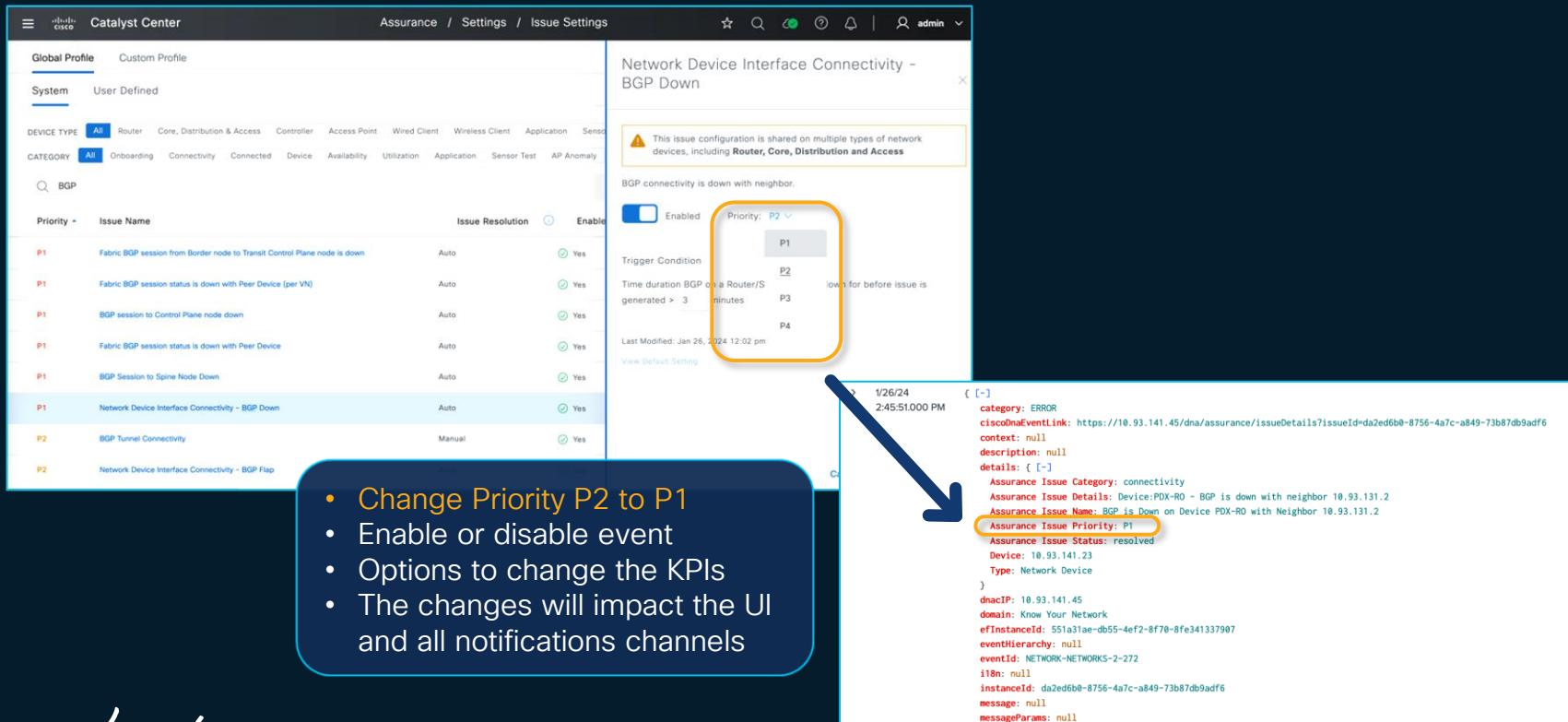


The screenshot shows the Catalyst Center Assurance Settings page. The top navigation bar includes 'Assurance / Settings / Issue Settings'. The page is divided into sections for 'Global Profile' (selected) and 'Custom Profile', and 'System' (selected) and 'User Defined'. Filter options for 'DEVICE TYPE' (All, Router, Core, Distribution & Access, Controller, Access Point, Wired Client, Wireless Client, Application, Sensor, Third Party Device) and 'CATEGORY' (All, Onboarding, Connectivity, Connected, Device, Availability, Utilization, Application, Sensor Test, AP Anomaly, System) are present. A search bar 'Search Table' is also available.

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



The screenshot shows the Cisco Catalyst Center Assurance Settings page. A modal window is open for the issue "Network Device Interface Connectivity - BGP Down". The modal displays the following configuration:

- Priority:** P2 (highlighted with an orange box)
- Trigger Condition:** Time duration BGP on a Router/S generated > 3 minutes
- Last Modified:** Jan 26, 2024 12:02 pm

A callout box on the left highlights the "Priority: P2" dropdown and the "Trigger Condition" section. A large blue arrow points from this callout to a JSON object on the right, which shows the configuration details:

```
1/26/24 2:45:51.000 PM
{
  "category": "ERROR",
  "ciscoOnEventLink": "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-R0 - BGP is down with neighbor 10.93.131.2",
    "Assurance Issue Name": "BGP is Down on Device PDX-R0 with Neighbor 10.93.131.2",
    "Assurance Issue Priority": "P1" (highlighted with an orange box),
    "Assurance Issue Status": "resolved",
    "Device": "10.93.141.23",
    "Type": "Network Device"
  },
  "dnacIP": "10.93.141.45",
  "domain": "Know Your Network",
  "eInstanceId": "551a31ae-db55-4ef2-8f70-8fe341337907",
  "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 { [-]
  category: ALERT
  ciscoDnaEventLink: https://10.93.141.45/dna/assurance/issu
  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-RO, 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
  efiInstanceId: 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: null
  device: null
  siteId: 713ab886e1-785e-410f-8480-000000000000
  a39c-36a9d45du100/17d09289-f725-4320-8000-000000000000
  }
}

> 10/29/24 { [-]
  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-RO, 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
  efiInstanceId: 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
  notes: null
  developer: null
  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

Home - Cisco Catalyst Center X ESXi-gz2.cisco.com - VMware X +

https://10.93.141.45/dna/home

110% ⭐

Cisco Systems, Inc APIs Tools LAB_Access CiscoLive Meraki Dashboard L... SFEH-NAS - Synolo... CDETS DNAcAaP SharePoint APIs and Owners - ... JIRA Engineering SJ... Catalyst Center API ...

Catalyst Center

Explore

Welcome to Catalyst Center!

Assurance Summary

Health

Healthy as of Feb 10, 2025 3:43 PM

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

[View Details](#)

Critical Issues

Last 24 Hours

2 P1 0 P2

[View Details](#)

Trends and Insights

Last 30 Days

0 AP Performance Advisories 0 Trend Deviations

[View Details](#)

Network Snapshot

Sites

As of Feb 10, 2025 3:43 PM

16 Sites

DNS Servers : 1 NTP Servers : 1

Network Devices

As of Feb 10, 2025 3:43 PM

13 Network Devices

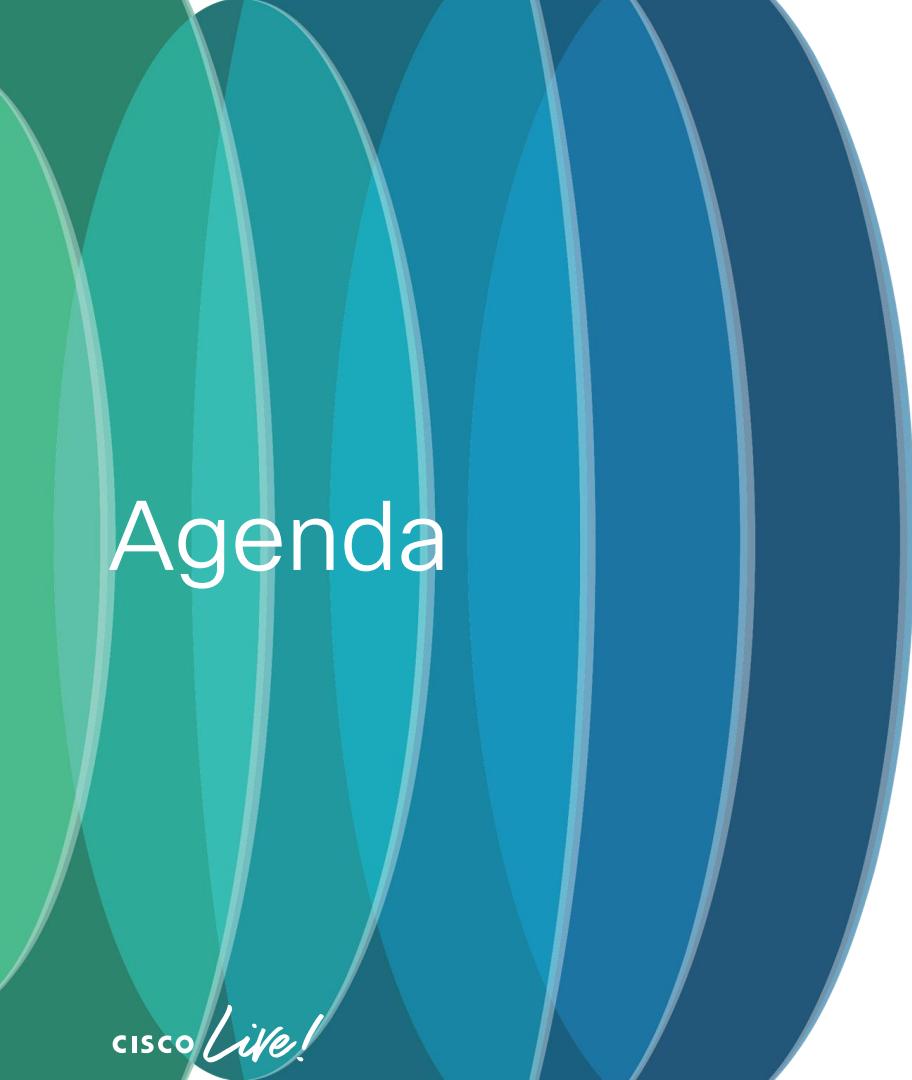
Unclaimed: 3 Unprovisioned: 1 Unreachable: 0

Application QoS Policies

As of Feb 10, 2025 3:43 PM

0 Application QoS Policies

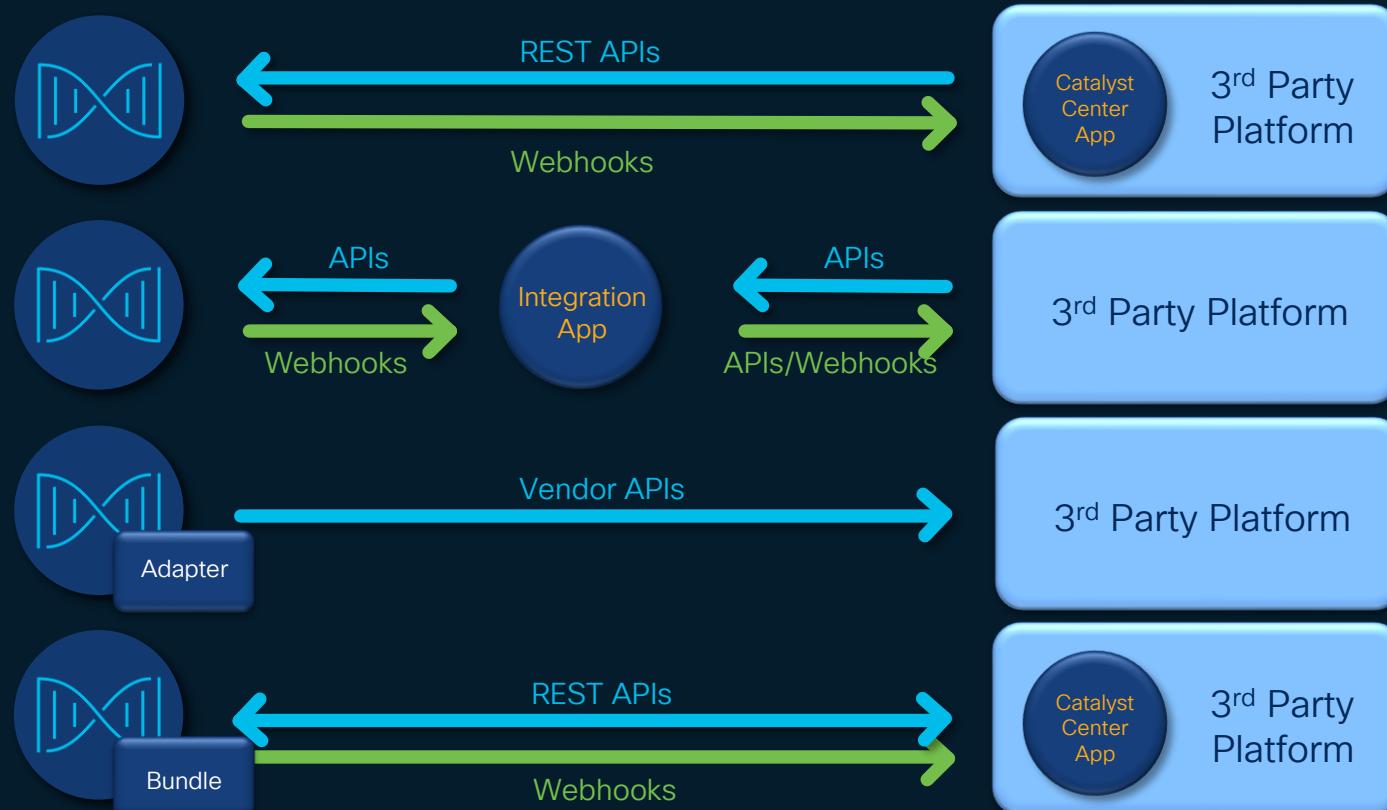
Successful Deployments: 0 Errorred Deployments: 0 Stale Policies: 0

The background of the slide features a large, stylized graphic of overlapping circles in various shades of green and blue, creating a dynamic, wave-like pattern.

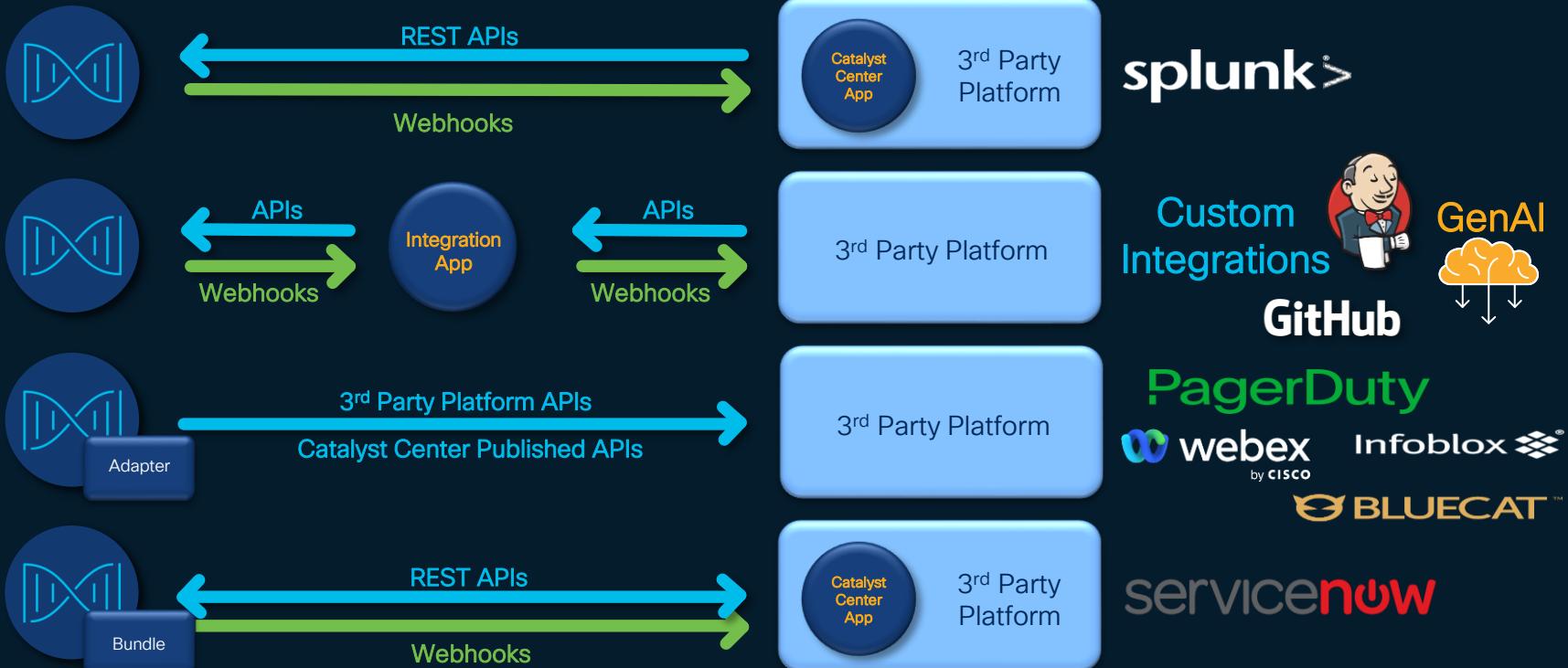
Agenda

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

Catalyst Center Integration Options

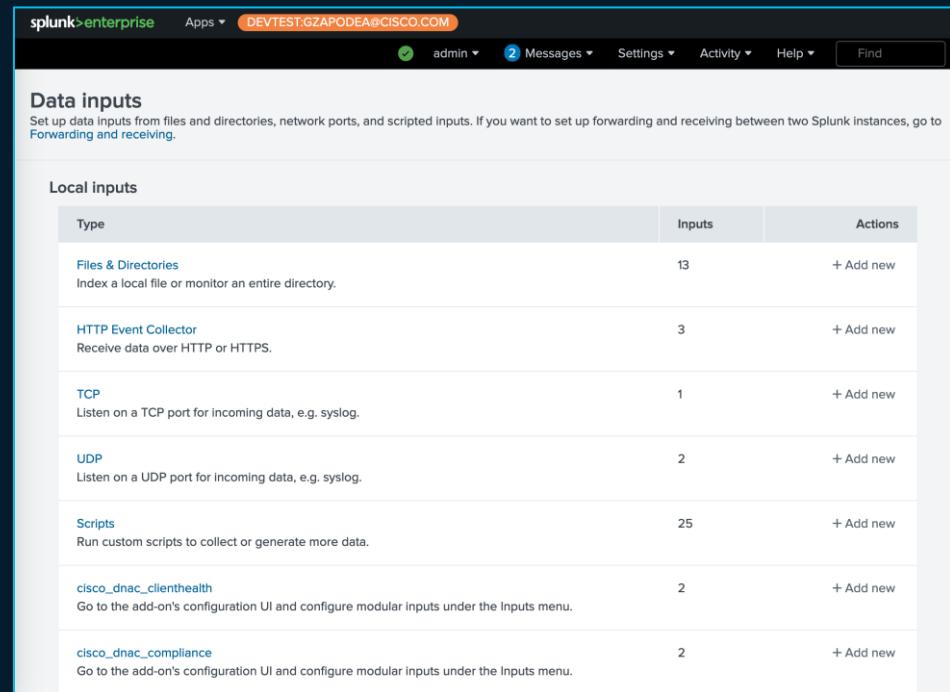


Catalyst Center Integration Options



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



The screenshot shows the Splunk Enterprise interface for managing data inputs. The top navigation bar includes 'splunk>enterprise', 'Apps', 'admin', 'Messages', 'Settings', 'Activity', 'Help', and 'Find'. The main content area is titled 'Data inputs' with the sub-section 'Local inputs'. A brief description states: '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](#)'. Below this, a table lists the following input types:

Type	Inputs	Actions
Files & Directories	13	+ Add new
HTTP Event Collector	3	+ Add new
TCP	1	+ Add new
UDP	2	+ Add new
Scripts	25	+ Add new
cisco_dnac_clienthealth	2	+ Add new
cisco_dnac_compliance	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](#)



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

- 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



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/>

splunkbase™ Collections Apps Submit an App Log In ▾

Discover Apps

Showing 1-2 of 2 Results for Cisco DNA

Sort by

PLATFORM

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

The image displays the Cisco DNA Center Add-on App interface, which integrates with Splunk. It includes:

- Inputs:** A table showing various data inputs with columns for Name, Interval, Index, Status, and Actions. Inputs listed include: advisories_DNAWired, advisories_L02, client_health_DNAWired, client_health_L02, compliance_DNAWired, compliance_L02, device_health_DNAWired, device_health_L02, issues_DNAWired, and issues_L02. All are set to main index and Enabled.
- Search:** A search interface showing a timeline from 01/01/24 10:00:00.000 PM to 01/02/24 12:39:00 PM. It displays 85,748 events and a sourcetype distribution. A blue arrow points to the search interface with the text "Query/Search index/input".
- Dashboards:** A dashboard showing device management statistics: 13 managed devices, 0 unmanaged devices, 2 devices with errors, 7 switches/hubs, 2 wireless controllers, 4 routers, and 2 APs. A blue arrow points to the dashboard with the text "Multi Catalyst Center clusters integrated with Splunk supported".

Demo Splunk Integration



Cisco Catalyst Center Overview

Not Secure 10.93.141.37:8000/en-US/app/Splunk_CiscoDNAcenter/cisco_dna_center_overview?form.timeRangePicker2.earliest=-24h%40h&form.timeRangePicker2.latest=-1h%40m 120% Cisco Systems, Inc APIs Tools LAB Access CiscoLive Meraki Dashboard SFEH-NAS - Synolo CDETS DNAaaS SharePoint APIs and Owners JIRA Engineering SJ... Other Bookmarks

splunk>enterprise Apps DEVTEST:GZAPODEA@CISCO.COM admin Messages Settings Activity Help Find

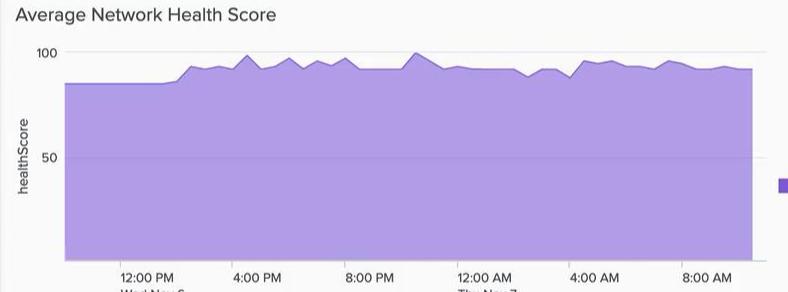
Cisco DNA Center Dashboards Search Cisco DNA Center

Cisco Catalyst Center Overview

Time Range Cisco Catalyst Center Host

Last 24 hours https://10.93.141.45 Hide Filters

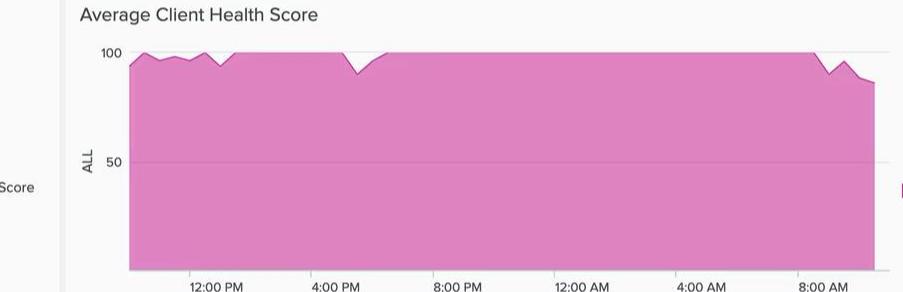
Average Network Health Score



healthScore

12:00 PM Wed Nov 6 2024 4:00 PM 8:00 PM 12:00 AM Thu Nov 7 4:00 AM 8:00 AM

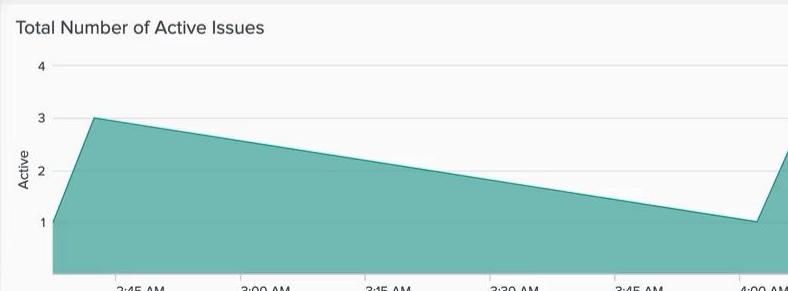
Average Client Health Score



ALL

12:00 PM Wed Nov 6 2024 4:00 PM 8:00 PM 12:00 AM Thu Nov 7 4:00 AM 8:00 AM

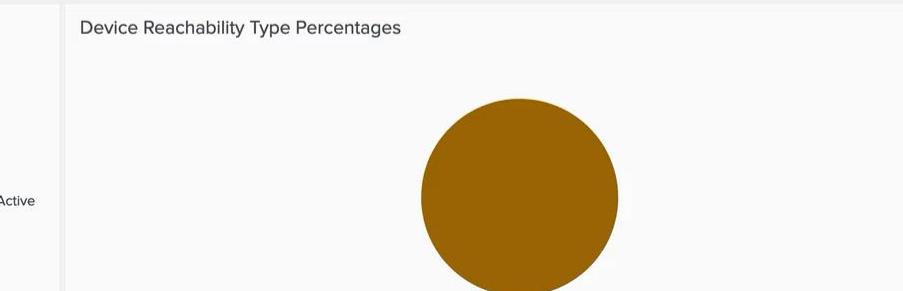
Total Number of Active Issues



Active

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

Device Reachability Type Percentages



Reachable (100.00%)

New Cisco EN Splunk Integration Apps

The screenshot shows the splunkbase website interface. At the top, there is a navigation bar with 'splunkbase' (highlighted in blue), 'Collections', 'Apps', a search bar ('Find an app'), a 'Submit an App' button, and a 'Log In' button. Below the navigation, two app cards are displayed:

Cisco Catalyst Add-on for Splunk
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
Built by Cisco EN Programmability
Splunk Rating: 0
Latest Version: 1.0.0 (September 10, 2024)
Release notes
Compatibility: Splunk Enterprise, Splunk Cloud, Platform Version: 9.3, 9.2, CIM Version: 5.X
Log in to rate this app

Cisco Enterprise Networking for Splunk Platform
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...*
Built by Cisco EN Programmability
Splunk Rating: 0
Latest Version: 1.0.0 (September 10, 2024)
Release notes
Compatibility: Splunk Enterprise, Splunk Cloud, Platform Version: 9.3, 9.2, CIM Version: 5.X
Log in to rate this app

A blue callout box highlights the following features for the Cisco Catalyst Add-on:

- 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

Agenda

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

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, Terrafrom
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

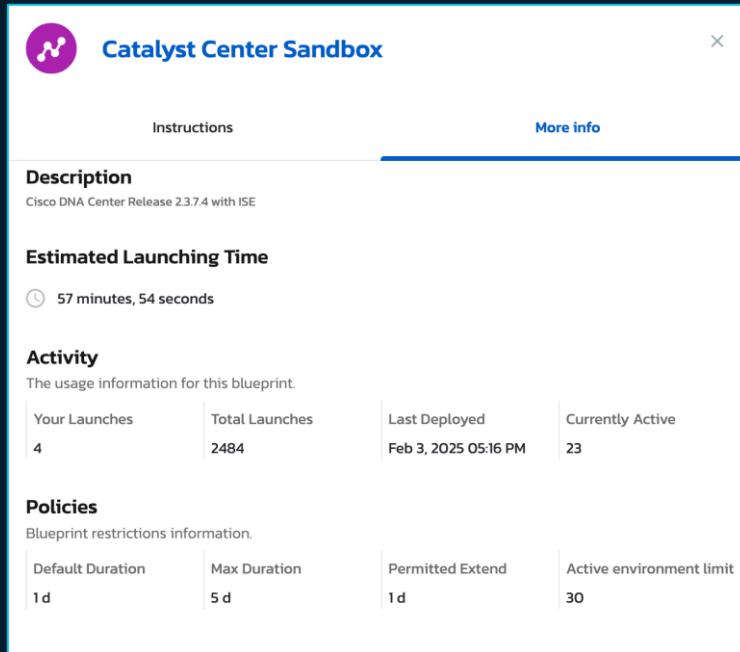
DevOps resources

- 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 a blueprint details page for the 'Catalyst Center Sandbox'. The page includes sections for Description, Estimated Launching Time, Activity, Policies, and a summary table.

Description: Cisco DNA Center Release 2.3.7.4 with ISE

Estimated Launching Time: 57 minutes, 54 seconds

Activity: The usage information for this blueprint.

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

Policies: Blueprint restrictions information.

Default Duration	Max Duration	Permitted Extend	Active environment limit
1d	5d	1d	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 a *community developed* Pythonic wrapping of the DNA Center APIs (for API versions: 2.2.2.0, 2.2.2.1, 2.2.2.2, 2.2.2.3, 2.3.7.6). The package represents all of the Cisco DNA Center API interactions via native Python tools. Making work easier and more *native* and *natural* experience.

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

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 API code

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

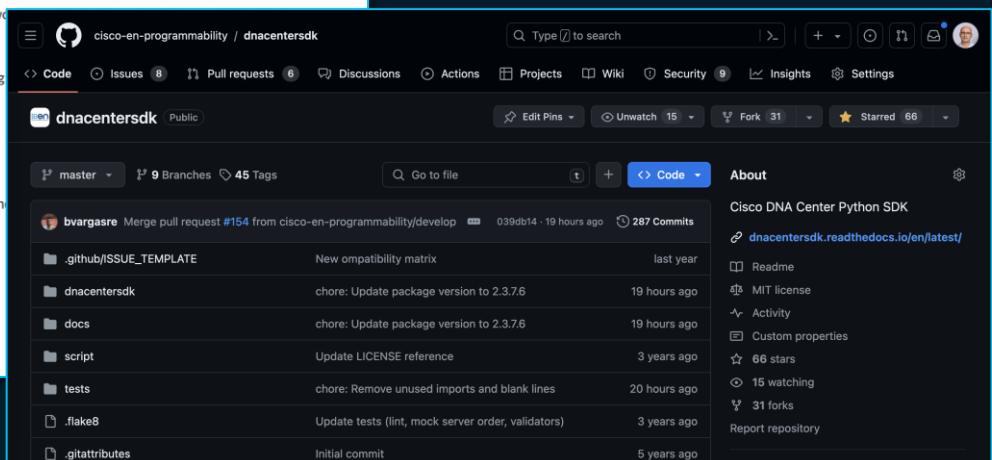
The User Guide

- [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+



The screenshot shows the GitHub repository page for `cisco-en-programmability/dnacentersdk`. The repository has 9 branches and 45 tags. The README is visible on the right side of the page.

Code | **Issues** 8 | **Pull requests** 6 | **Discussions** | **Actions** | **Projects** | **Wiki** | **Security** 9 | **Insights** | **Settings**

dnacentersdk [Public]

master | 9 Branches | 45 Tags

Activity

Commits

Issues

Pull Requests

Wiki

Security

Insights

Settings

About

Cisco DNA Center Python SDK

[dnacentersdk.readthedocs.io/en/latest/](#)

Readme

MIT license

Activity

Custom properties

66 stars

15 watching

31 forks

Report repository

Initial commit | 5 years ago

Update tests (lint, mock server order, validators) | 3 years ago

Update LICENSE reference | 3 years ago

chore: Remove unused imports and blank lines | 20 hours ago

chore: Update package version to 2.3.7.6 | 19 hours ago

chore: Update package version to 2.3.7.6 | 19 hours ago

New compatibility matrix | last year

[.github/ISSUE_TEMPLATE](#)

[dnacentersdk](#)

[docs](#)

[script](#)

[tests](#)

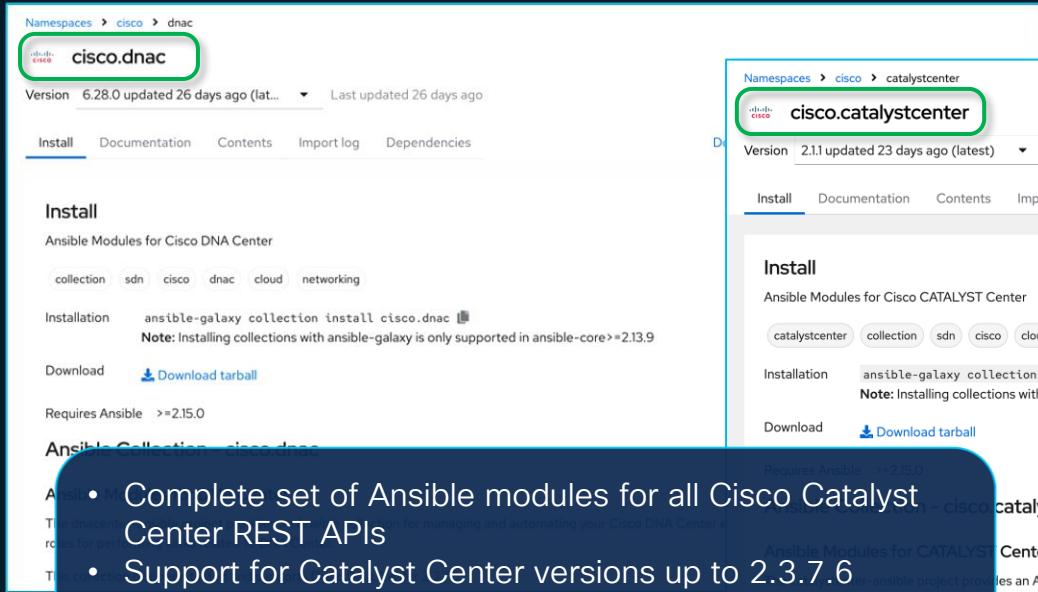
[.flake8](#)

[.gitattributes](#)

<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 (latest) 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

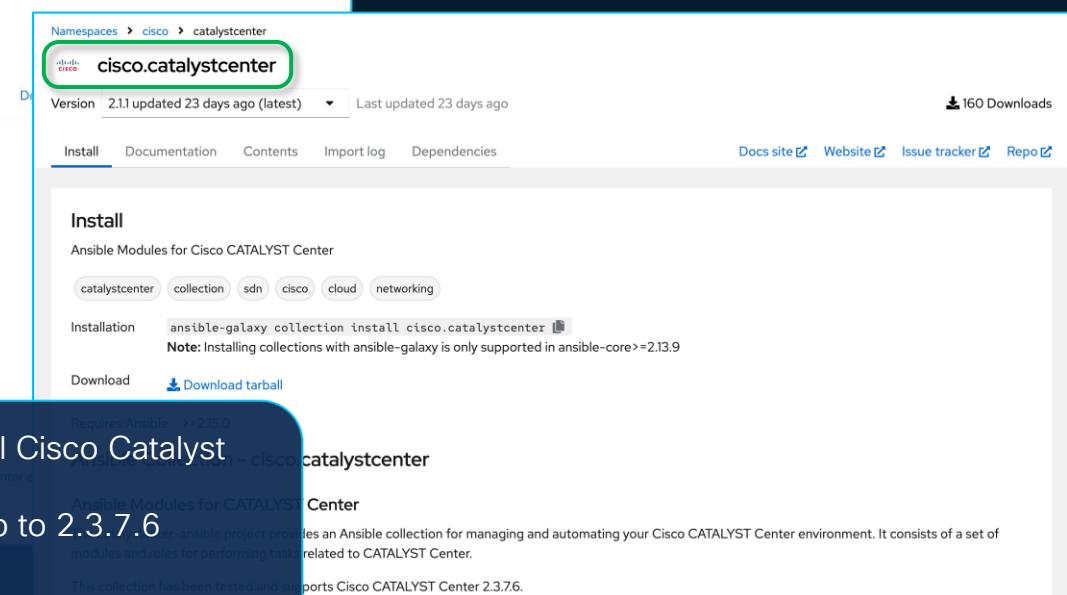
This collection provides an Ansible collection for managing and automating your Cisco DNA Center environment. It consists of a set of modules and roles for performing tasks related to DNA Center.

This collection has been tested and supports Cisco DNA 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>

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



Namespaces > cisco > catalystcenter

cisco.catalystcenter

Version 2.11 updated 23 days ago (latest) Last updated 23 days ago

Install Documentation Contents Import log Dependencies

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

This collection 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.

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

x

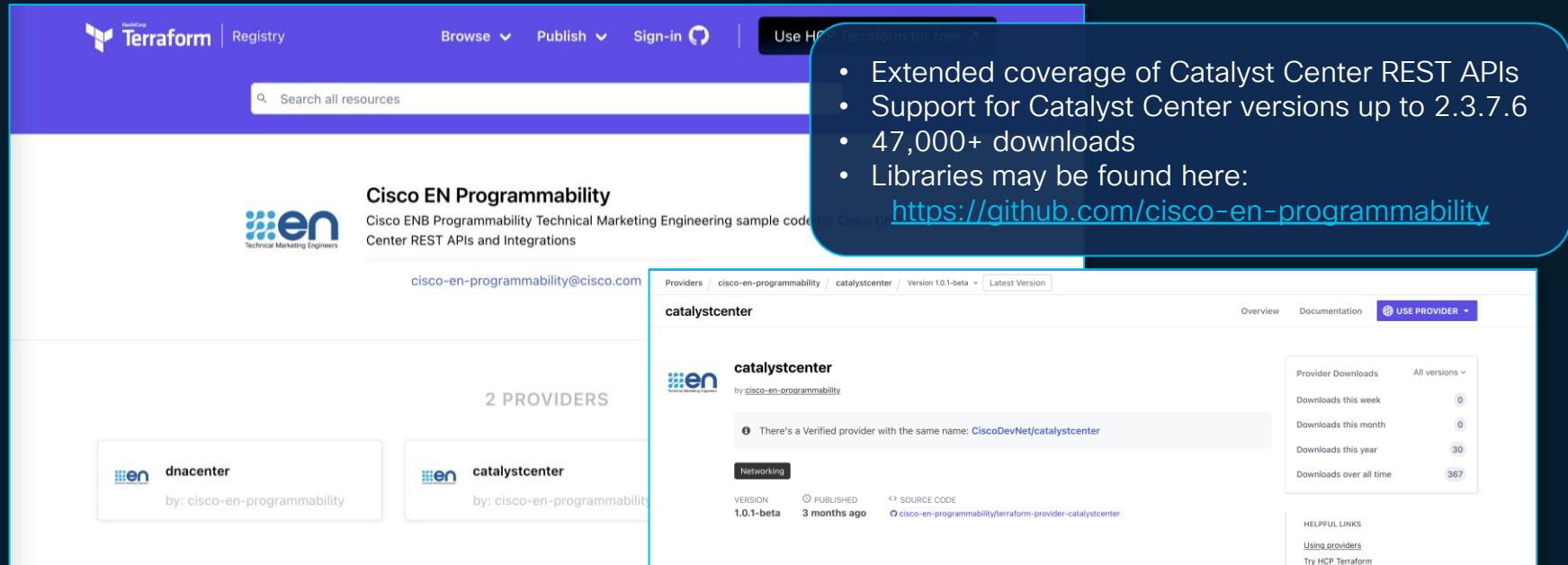
Showing: All (37) **Playbook (13)** **Module (23)** Module_utils (0) Action (0) Doc_fragments (1)

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 shows the Terraform Registry interface. At the top, there are navigation links for 'Browse', 'Publish', 'Sign-in', and a 'Use HCL Terraform for free' button. Below the header is a search bar with the placeholder 'Search all resources'. The main content area features a purple header for 'Cisco EN Programmability' with the Cisco EN logo and a brief description: 'Cisco ENB Programmability Technical Marketing sample code for Cisco Data Center REST APIs and Integrations'. Below this, there are two provider cards: 'dnacenter' and 'catalystcenter', both by 'cisco-en-programmability'. The 'dnacenter' card includes a 'View provider' button. The 'catalystcenter' card includes a 'View provider' button and a note: 'There's a Verified provider with the same name: [CiscoDevNet/catalystcenter](#)'. The bottom right of the page contains a 'Provider Downloads' table with the following data:

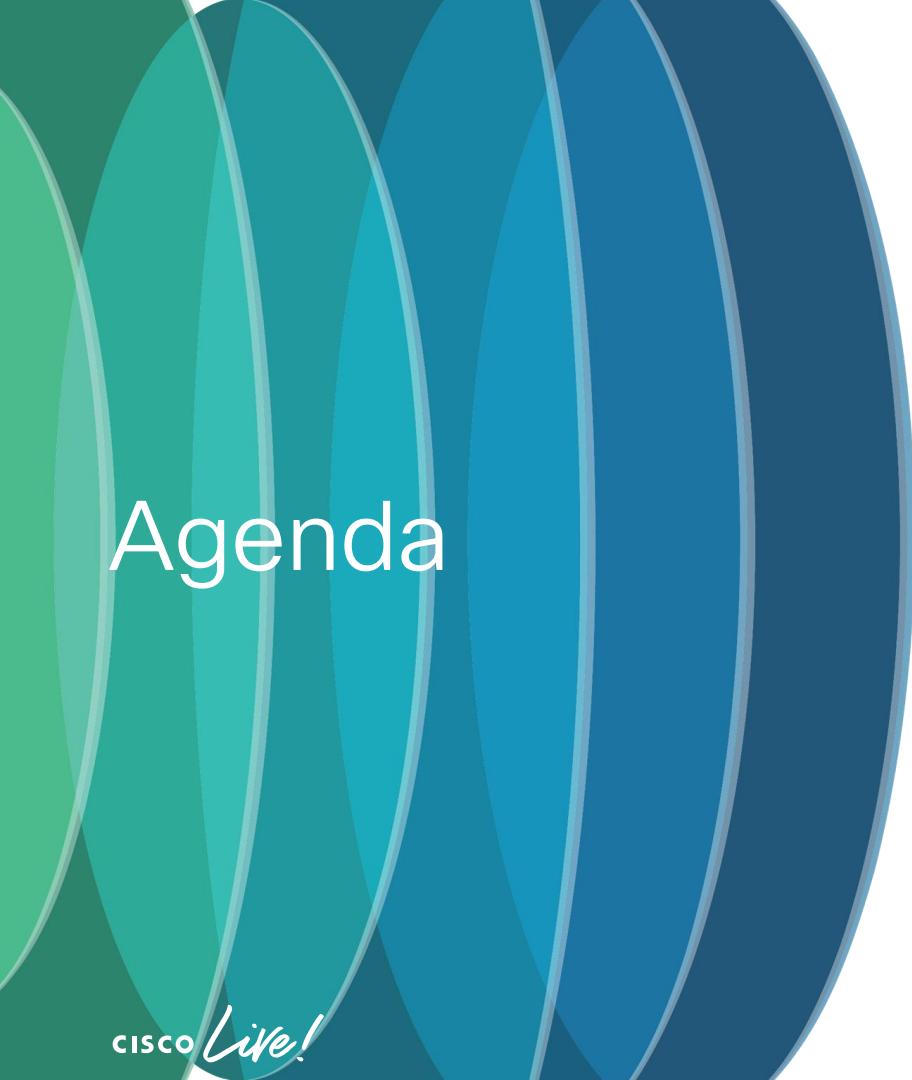
Downloads this week	0
Downloads this month	0
Downloads this year	30
Downloads over all time	367

On the right side of the page, there is a sidebar with 'HELPFUL LINKS' including 'Using providers', 'Try HCL 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/>

CISCO Live!

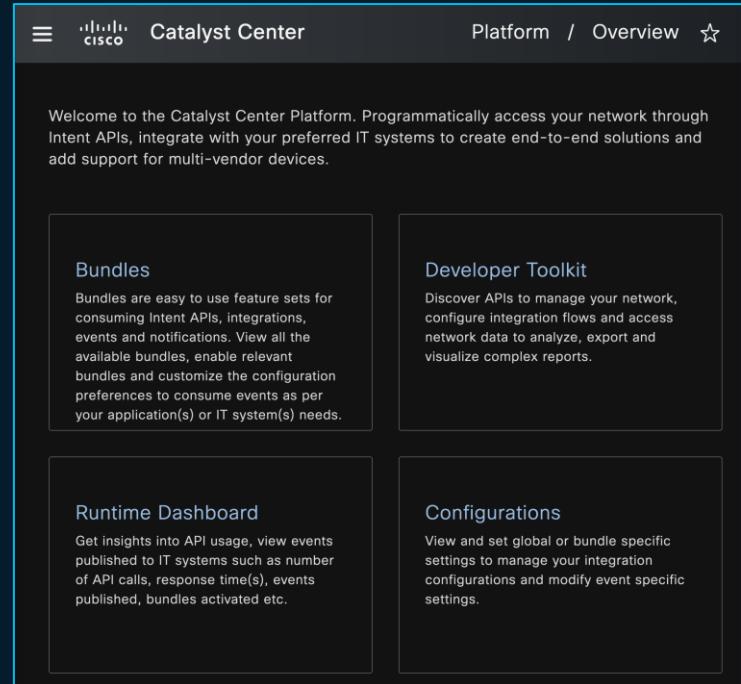
The background of the slide features a large, stylized graphic of overlapping circles in shades of green, teal, and blue, resembling a globe or a stylized 'C' shape. In the bottom left corner, the 'CISCO Live!' logo is visible, with 'CISCO' in a small sans-serif font and 'Live!' in a larger, italicized, cursive font.

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



The screenshot shows the Catalyst Center Platform Overview page. The top navigation bar includes the Cisco logo, the title 'Catalyst Center', and links for 'Platform / Overview' and a star icon. The main content area has a welcome message: '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.' Below this are four cards: 'Bundles' (describing feature sets for consuming Intent APIs), 'Developer Toolkit' (describing APIs for managing the network and analyzing data), 'Runtime Dashboard' (describing insights into API usage and events), and 'Configurations' (describing global and bundle-specific settings for integration configurations).

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

Fill Out Your Session Surveys



Participants who fill out a minimum of 4 session surveys and the overall event survey will get a unique Cisco Live t-shirt.

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



All surveys can be taken in the Cisco Events mobile app or by logging in to the Session Catalog and clicking the 'Participant Dashboard'



Content Catalog

A dark blue background featuring a series of overlapping, semi-transparent blue wave-like shapes that create a sense of depth and motion.

Continue your education

CISCO *Live!*

- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at [ciscolive.com/on-demand](https://cisco.com/ciscolive.com/on-demand). Sessions from this event will be available from March 3.



Thank you

cisco *Live!*



GO BEYOND