

Introduction to Cisco DNA Center

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Agenda

- What is Cisco DNA Center?
- REST API Example With DNA Center
- Postman API Demo

What is Cisco DNA Center?



- Is the network management and analytics platform for Cisco Digital Network Architecture (Cisco DNA).
- Provides rich features in the area of network management, network automation, network assurance, monitoring, analytics and security.
- Using Cisco DNA Center you can provision and configure all your network devices in minutes.



Why use Cisco DNA Center?

- Simplify network management.
- Deploy networks in minutes.
- Lower costs. Policy-driven.
- Transform your network with cloud services.

DNA Center Key Functions



Design

Model your entire network, from sites and buildings to devices and links, both physical and virtual, across campus, branch, WAN and cloud.

- Add site locations on the network
- Designate golden images for device families
- Create wireless profiles of SSIDs

Policy

Use policies to automate and simplify network management, reducing cost and risk while speeding rollout of new and enhanced services.

- Segment your network as Virtual Networks
- Create scalable groups to describe your critical assets
- Define segmentation policies to meet your policy goals

Provision

Provide new services to users with ease, speed and security across your enterprise network, regardless of network size and complexity.

- Discover Devices
- Manage Unclaimed Devices
- Set up fabric across sites

Assurance

Use proactive monitoring and insights from the network, devices, and applications to predict problems faster and ensure that policy and configuration changes achieve the business intent and the user experience you want.

- Assurance Health
- Assurance Issues



Cisco DNA Center Platform

DNA Center Platform – APIs, Adapters, SDKs

IT and Network System Adapters

servicenow | ITSM
Infoblox | IPAM
tableau | Reporting

3rd Party SDKs

Map 3rd Party Network Devices to Data Model
Level 1 Operations support
(Discovery, Inventory, Topology, Availability, Health Score)

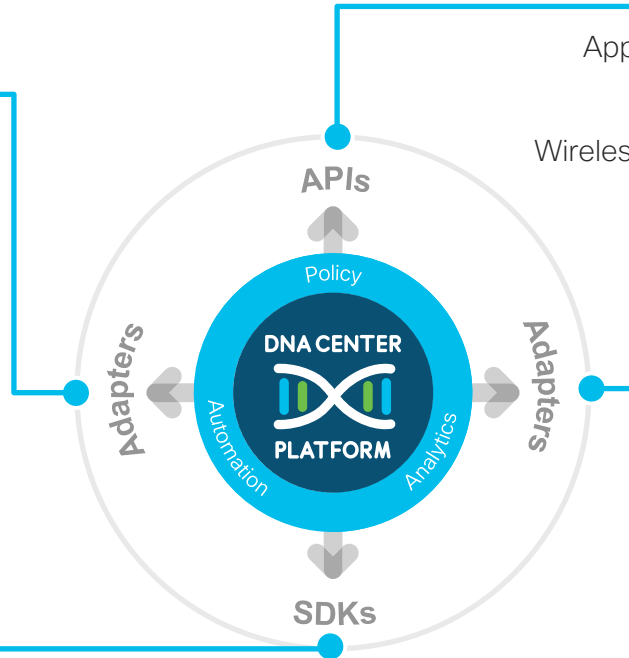
Business and Network APIs

Application Policy
Assurance
Wireless Provisioning
Plug-n-Play
Topology

Software Image Management (SWIM)
Network Inventory / Discovery
Command Runner
Template Programmer
eNFV Provisioning

X-Domain Adapters

Networking | **cisco Meraki**
Security | **cisco Stealthwatch**



Intent APIs



Network APIs

- Network Level - Features based API
- Consistent model for feature across all devices types
- All UI capabilities of Cisco DNA Center available via the API
- Example: SWIM workflow
 - Create Sites and Network Profiles
 - Create sub-pool for sites
 - Assign site to network profiles
 - Assign Claim device to site
 - Trigger Provision request for ENCS device

Business APIs

- Intent Based API for network operations
- Network capabilities abstraction
- API's aligned with business constructs
- Custom Business API from an aggregation of network APIs

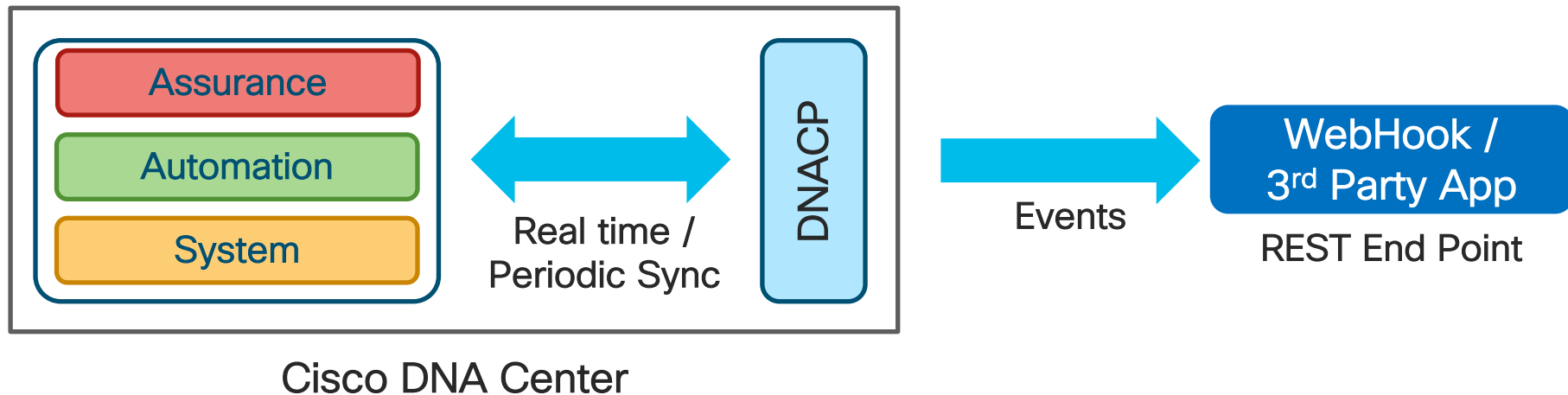
Example of Business Intent API: SSID Creation

- Create Dynamic Interface
- Create SSID
- Create Wireless Network Profile
- Associate device physical location
- Associate managed AP locations
- Provision WLC

➤ **Create and Provision SSID**

Cisco DNA Center Platform

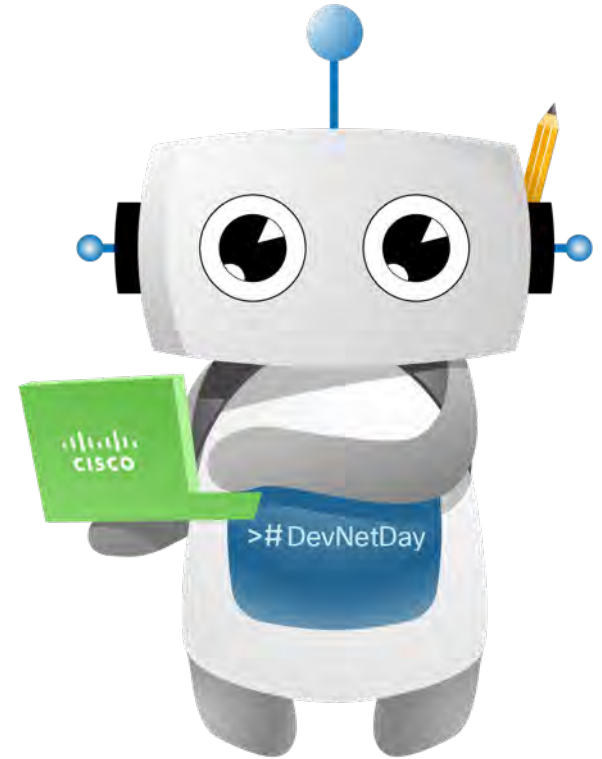
Events & Notifications



Le Tour du Monde

Explore More

- [Getting Started with Cisco DNA-Center APIs](#)
- [Cisco DNA Center on Code Exchange](#)
- [Cisco DNA Center on Automation Exchange](#)
- [Cisco DNA Center collection on Postman hub](#)



Thank you