



The bridge to possible

# Cisco DNA Center Licensing for Campus Networks

Gayathri Devi, Technical Marketing Engineer



# Agenda

- Introduction to Smart Accounts
- Smart Licensing
- Cisco DNA Essentials vs Advantage
- CSSM
- Cisco DNA Center License Manager



Gayathri Devi  
Technical Marketing Engineer  
Cisco DNA Center

# Cisco Webex App

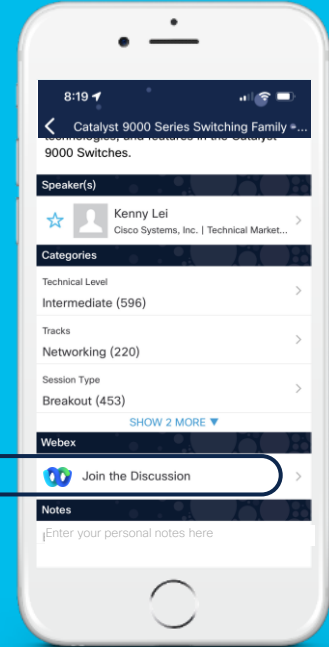
## Questions?

Use Cisco Webex App to chat with the speaker after the session

## How

- 1 Find this session in the Cisco Live 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 until February 24, 2023.



# Cisco Smart Account

## Centralized account of Cisco Smart Software Licenses

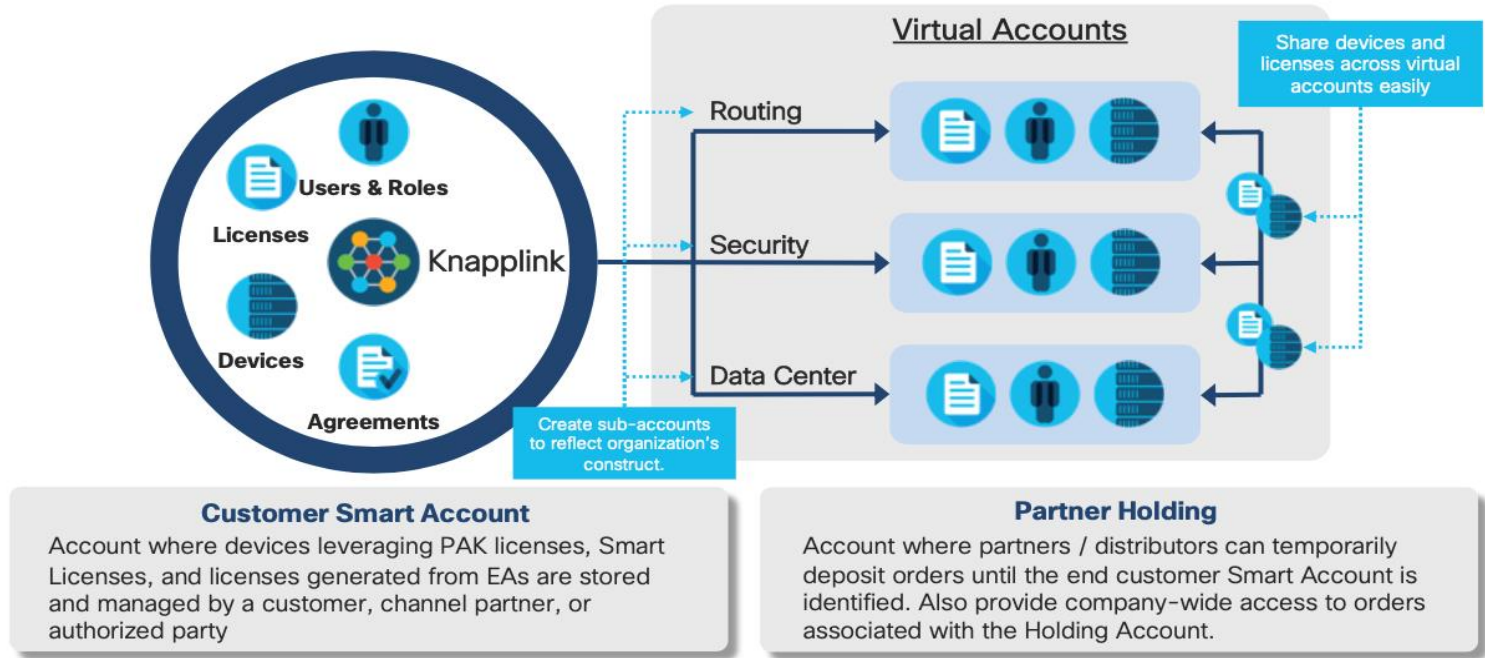
- Visibility of Assets
- Access Control

## Pools

- Devices
- User roles
- Licenses
- Agreements



# What's in a Smart Account



# Smart Account Structure

Considerations..



## LOCATION

- Single / multiple region or countries
- Limited or complex variations in legal requirements or org liability



## ORG STRUCTURE

- Level of centralization in org structure
- No. of operational divisions controlling assets



## STREAMLINING PROCESS

- Need for license management – static hardware / fluid assets
- Dedicated license manager or team



# Smart Account Structure

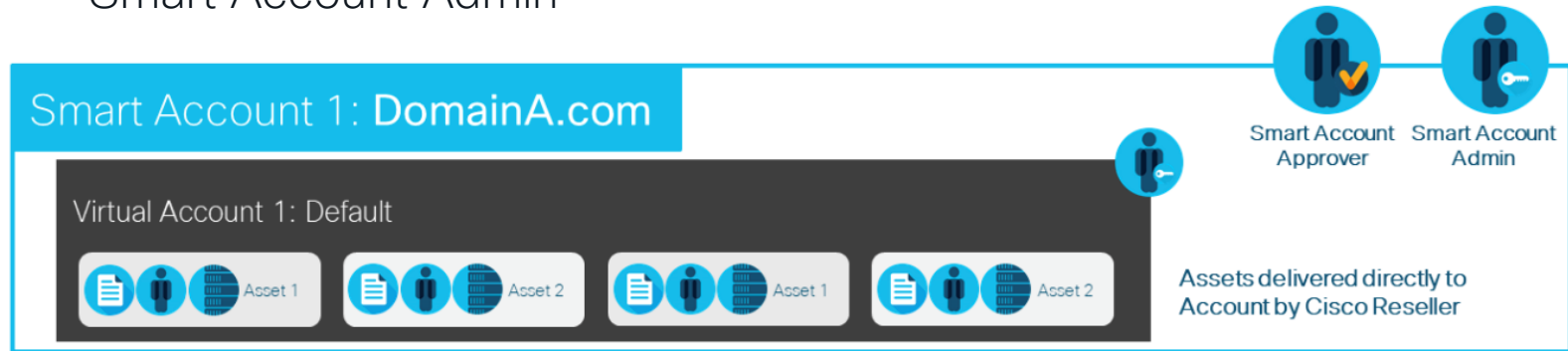
Single Domain

**Dedicated Smart Account** to keep track of

- Assets
- License usage

**One Virtual Account : 2 global roles**

- Smart Account Approver
- Smart Account Admin



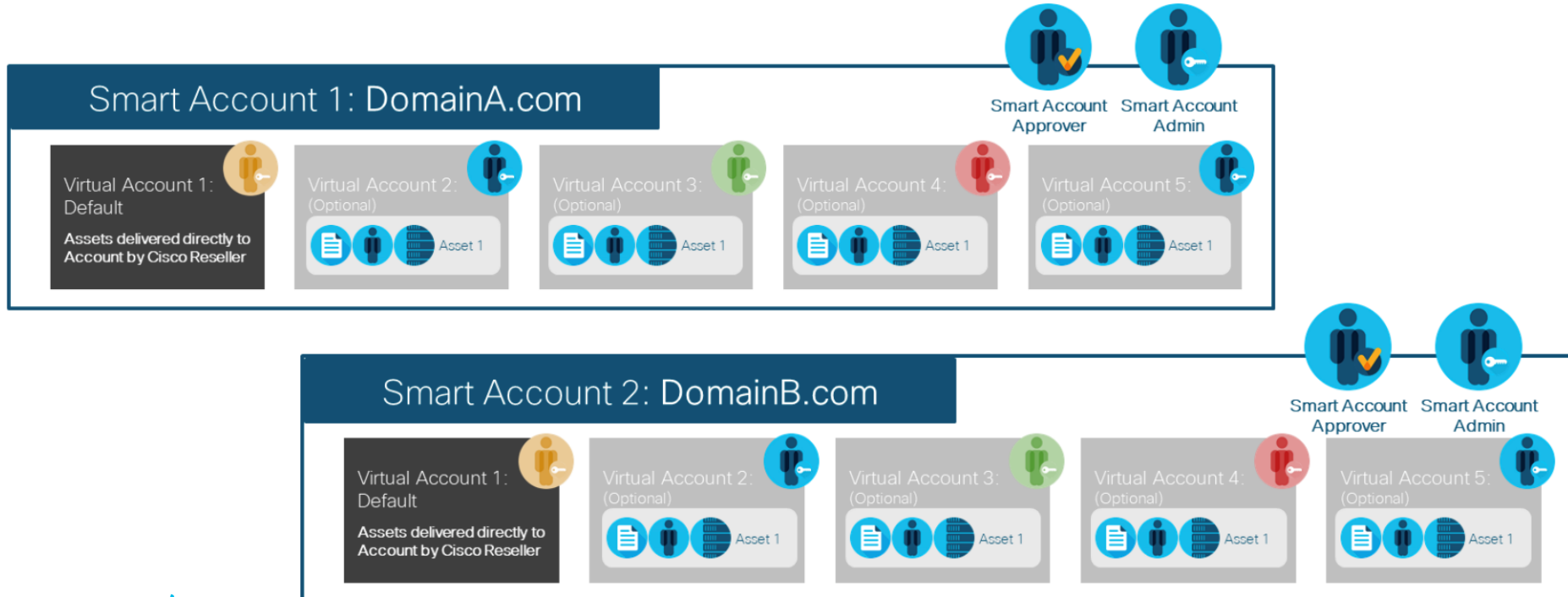




# Smart Account Structure

Multi Domain

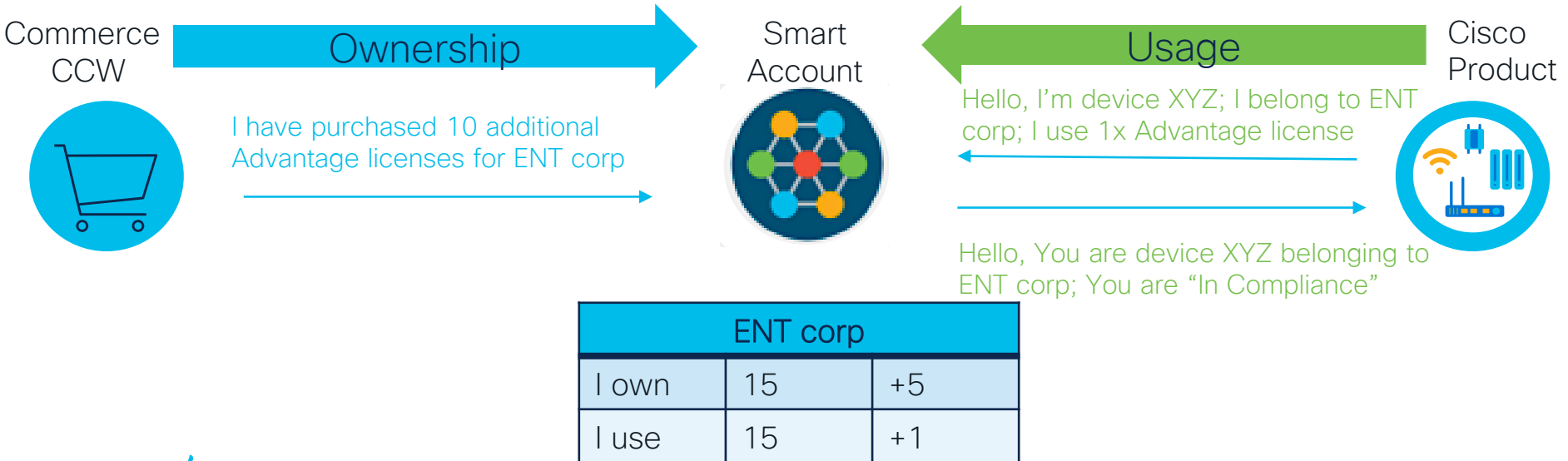
Multiple Smart Account to manage complex asset ecosystem



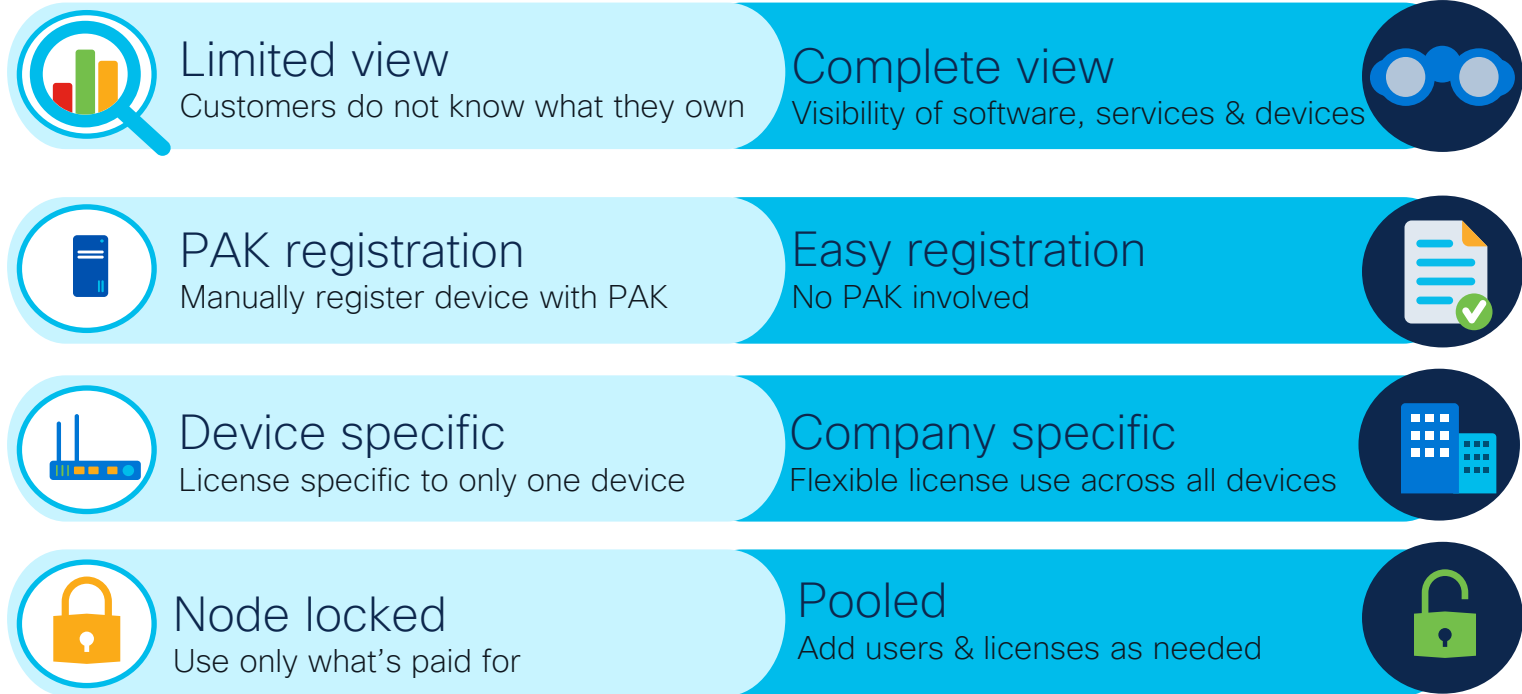
# Smart Licensing

# What is Smart Licensing

- Software Inventory Management System
- Cisco Smart Software Manager



# Transition from Traditional to Smart Licensing



# Methods of Communication

Cisco Products are configured to use Smart Licensing at install / provision

1

## Direct Cloud Access

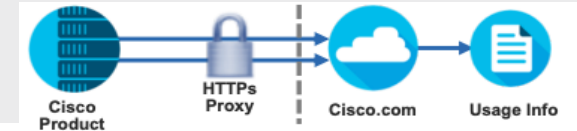
Usage information sent over internet directly; No additional component



2

## Proxy Cloud Access

Usage information sent over internet via Proxy server; Any off-the-shelf proxy



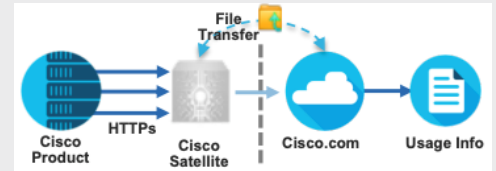
# Methods of Communication

Cisco Products are configured to use Smart Licensing at install / provision

3

## On-Prem CSSM server

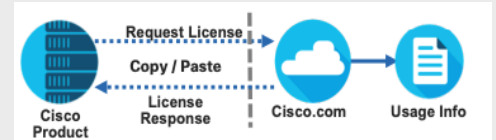
Usage information sent to locally installed satellite (periodic sync with Cisco)  
Both connected and disconnected environments



4

## Full Offline Access

Manual copy/paste of info between product & Cisco.com  
Manual license check-in / check out



# Cisco DNA Center Licenses

# Cisco DNA Licensing

In a nutshell

## Switching

### Cisco DNA Expansion Pack

Cisco Spaces, Stealthwatch, ISE, ThousandEyes

### Cisco DNA Advantage

SD-Access, Assurance, Analytics, Security, IoT, Telemetry, Visibility, Cisco DNA Essentials, Cisco Prime Infrastructure

### Cisco DNA Essentials

Base Automation, management and monitoring

## Routing & SD-WAN

### Cisco DNA Premier

Cisco Umbrella Plus, Cisco ThreatGrid, Cisco DNA Advantage

### Cisco DNA Advantage

Cloud OnRamp for IaaS & SaaS, vAnalytics, Cisco Advanced Malware Protection, Cisco DNA Essentials

### Cisco DNA Essentials

Simplified management and security protection, up to 50 devices overlay

## Wireless

### Cisco DNA Expansion Pack

Cisco Spaces, Stealthwatch, ISE, ThousandEyes

### Cisco DNA Advantage

Assurance, Analytics, Advanced Automation, aWIPS, Cisco Spaces See, Cisco Spaces Extend, Cisco DNA Essentials

### Cisco DNA Essentials

Base automation and management, Cisco Prime Infrastructure



# Cisco Smart Software Manager

# CSSM On-Prem

Source of “truth” for air-gaped networks



## Accounts

Local Account 1

Local Account 2

Local Account 3

Virtual Account

Virtual Account

Virtual Account

BigU.edu

SmallU.edu

software.cisco.com

# Cisco DNA Center License Manager

# Show of Hands



How many of you have traditional network licenses?



Have you tried conversion to smart licenses?



Do you manage smart licenses using Cisco DNA Center?



# Pre-req Check - 1

## Access privilege

- SUPER-ADMIN-ROLE permissions and appropriate RBAC scope defined in Cisco DNA Center

## Credentials

- Collect Cisco user ID and password for your Smart Account

## Reachability

- Cisco DNA Center must have reachability to tools.cisco.com to register with Smart Account



# Pre-req Check - 2

## Manage Device

- Devices must be managed under Inventory, assigned to site, and must have reachability to tools.cisco.com for Cisco DNA Center to apply license

## Min. required Software Version for Smart License

- Switches 16.9.1 or above & Routers IOS16.10 or above

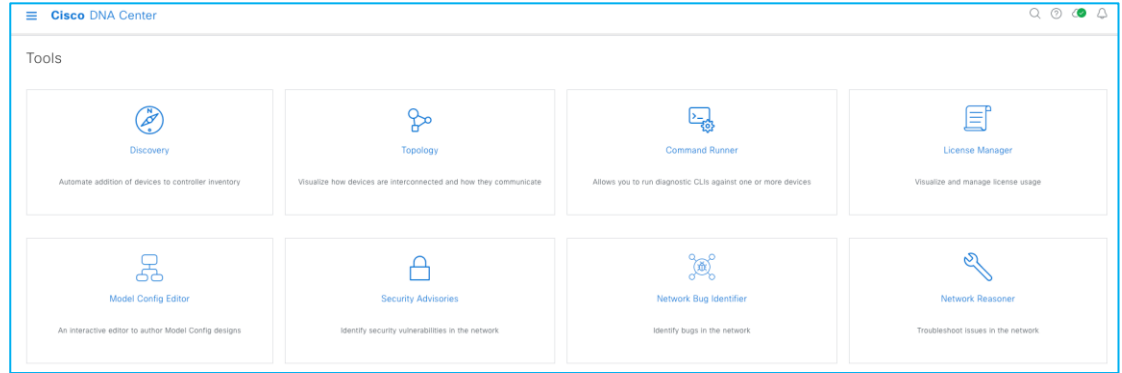
## Security

- Required ports, FQDN, URL to be permitted

# Cisco DNA Center License Manager

## Manage Cisco DNA Licenses

- Register Smart license
- Change license level
- Change Virtual Account Mapping
- License Reservation



## View Cisco DNA Licenses

- Purchased and Used license count
- License Timeline and Expiry
- Device license details & License history

# Prep 1 - Configure Smart Account

**Cisco DNA Center** System / Settings

Search Settings

Settings / Cisco Accounts

## Smart Account

Some of your license compliance requirements have not been met. [Learn more.](#)

Cisco Smart Account credentials are used for connecting to your Smart Licensing account. The License Manager tool will use the details and licenses information from this Smart Account for entitlement and license management.

Selected Smart Account User **Not linked**

Selected Smart Account Name **Not linked** [Change](#)

[View all virtual accounts](#)

### Smart Account Credentials (0)

Username	Password	Actions
No data to display		

[Add](#) [Delete historical information](#)

As of: Jan 11, 2023 9:01 PM [Refresh](#)

### Add Smart Account Credentials

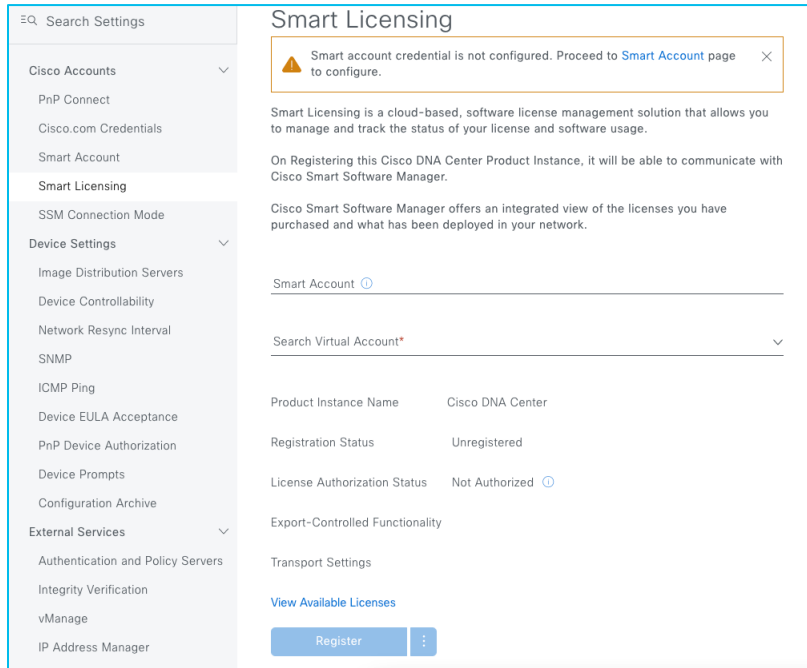
Username [Info](#)

Password

[Cancel](#) [Save](#)



# Prep 2 – Register Smart Account



Smart Licensing

Smart account credential is not configured. Proceed to [Smart Account](#) page to configure.

Smart Licensing is a cloud-based, software license management solution that allows you to manage and track the status of your license and software usage.

On Registering this Cisco DNA Center Product Instance, it will be able to communicate with Cisco Smart Software Manager.

Cisco Smart Software Manager offers an integrated view of the licenses you have purchased and what has been deployed in your network.

Smart Account ⓘ

Search Virtual Account\*

Product Instance Name Cisco DNA Center

Registration Status Unregistered

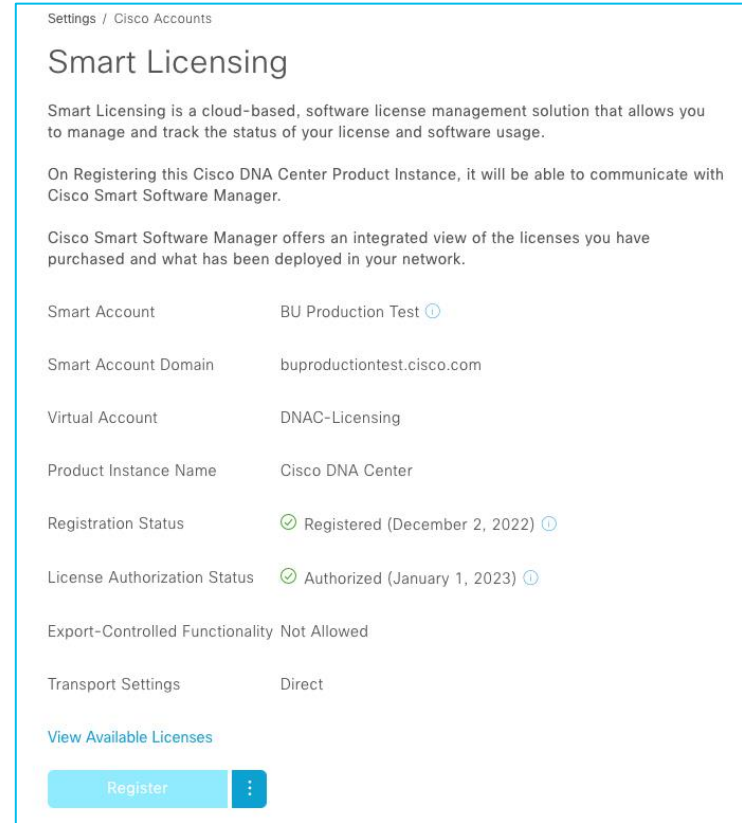
License Authorization Status Not Authorized ⓘ

Export-Controlled Functionality

Transport Settings

[View Available Licenses](#)

Register



Settings / Cisco Accounts

## Smart Licensing

Smart Licensing is a cloud-based, software license management solution that allows you to manage and track the status of your license and software usage.

On Registering this Cisco DNA Center Product Instance, it will be able to communicate with Cisco Smart Software Manager.

Cisco Smart Software Manager offers an integrated view of the licenses you have purchased and what has been deployed in your network.

Smart Account	BU Production Test ⓘ
Smart Account Domain	buproductiontest.cisco.com
Virtual Account	DNAC-Licensing
Product Instance Name	Cisco DNA Center
Registration Status	✓ Registered (December 2, 2022) ⓘ
License Authorization Status	✓ Authorized (January 1, 2023) ⓘ
Export-Controlled Functionality	Not Allowed
Transport Settings	Direct

[View Available Licenses](#)

Register

# Prep 3 – CSSM Connection Mode

☰ Cisco DNA Center

System / Settings

🔍 Search Settings

Cisco Accounts ▾

PnP Connect

Cisco.com Credentials

Smart Account

Smart Licensing

SSM Connection Mode

Device Settings ▾

Device Controllability

Network Resync Interval

SNMP

ICMP Ping

Image Distribution Servers

Device EULA Acceptance

PnP Device Authorization

Settings / Cisco Accounts

## SSM Connection Mode

**Direct connection mode** requires all smart-enabled devices in your network to have direct internet access to the Cisco SSM cloud.

**On-Prem Cisco Smart Software Manager (formerly known as Cisco Smart Software Manager satellite) connection mode** offers near real-time visibility and reporting of the Cisco licenses you purchase and consume. If your organization is security-sensitive, you can access a subset of Cisco SSM functionality without using a direct internet connection to manage your licenses with the Cisco SSM cloud.

**With smart proxy connection mode**, smart-enabled devices in your network don't need direct internet access; only the product instance requires direct internet access to the Cisco SSM cloud. This option is not applicable for registering Cisco DNA Center.

☒ Direct ☐ On-Prem CSSM ☐ Smart proxy

Smart Call Home Server URL

<https://tools.cisco.com/its/service/oddce/services/DDCEService>

Save

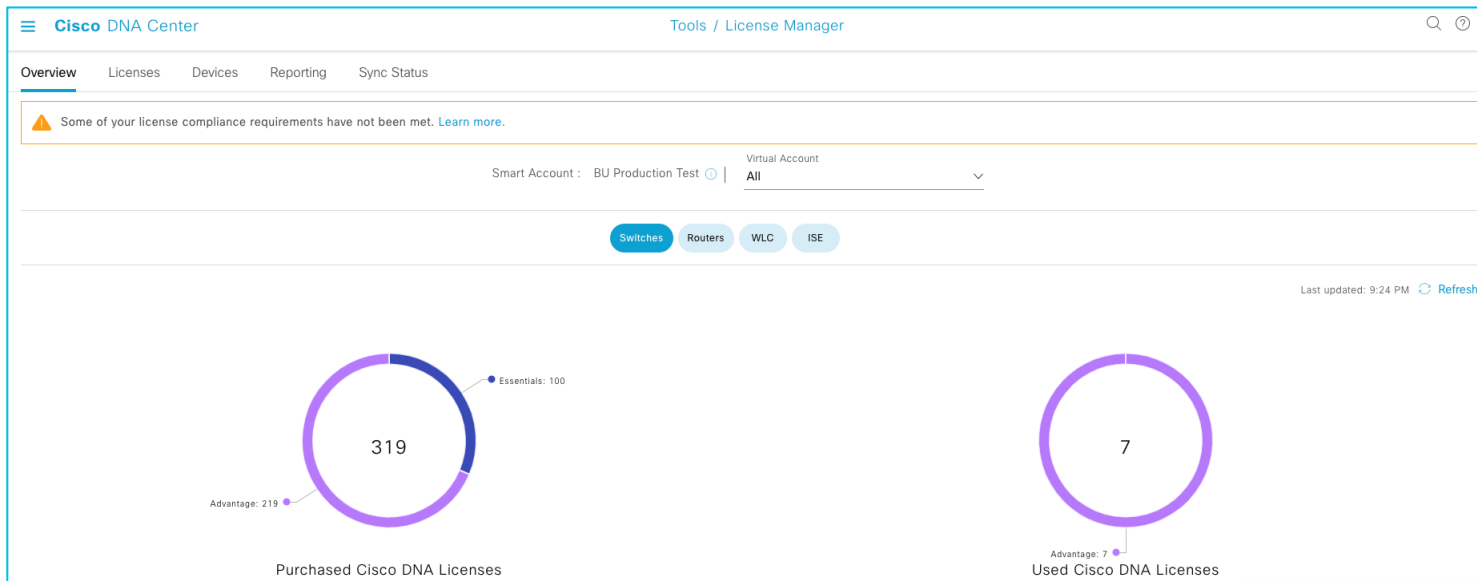
# Prep Check- Cisco DNA License Manager

- 1 Configure Smart Account for Cisco DNA Center
- 2 Register Smart Account with CSSM
- 3 CSSM Connection Mode
- 4 Auto-register smart-enabled devices

# View Cisco DNA Licenses



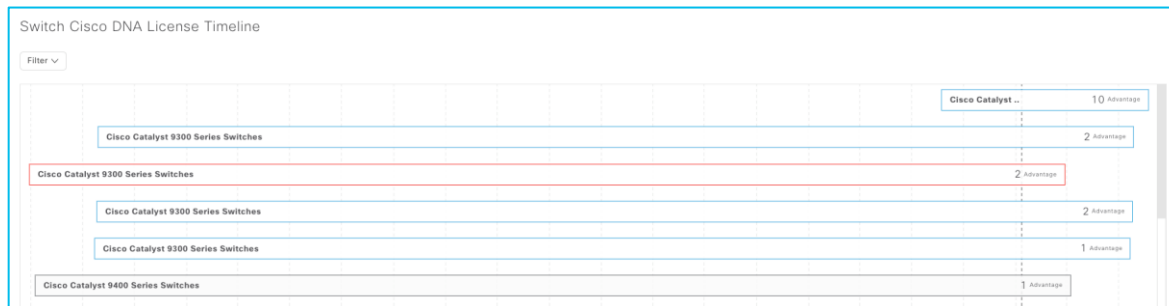
# License Manager Dashboard - Overview



- Aggregate purchased and used DNA licenses from Smart Account
- License details for Switches, Routers, Controllers and ISE
- Purchased and used licenses by device family

# License Manager Dashboard - Overview

Device Series ^	Total Devices	Cisco DNA Licenses Purchased/Used/Available	Network/Legacy Licenses Purchased/Used/Available
Cisco Catalyst 1000 Series Switches	1	0/0/0	0/0/0 Legacy
Cisco Catalyst 3850 Series Ethernet Stackable Switch	1	50/1/49	0/1/1 Legacy
Cisco Catalyst 4500 Series Switches	1	0/0/0	0/0/0 Legacy
Cisco Catalyst 6800 Series Switches	1	0/0/0	0/0/0 Legacy
Cisco Catalyst 9200 Series Switches	0	35/0/35	85/0/85 Network



- License breakdown by device type
- License Timeline by device type

# Breakdown by device type

Switch License Usage		
Device Series ▾	Total Devices	Cisco DNA Licenses Purchased/Used/Available
Cisco Catalyst 1000 Series Switches	1	0/0/0
Cisco Catalyst 3850 Series Ethernet Stackable Switch	1	50/1/49
Cisco Catalyst 4500 Series Switches	1	0/0/0
Cisco Catalyst 6800 Series Switches	1	0/0/0
Cisco Catalyst 9200 Series Switches	0	35/0/35
Cisco Catalyst 9300 Series Switches	3	120/4/116

SWITCHES

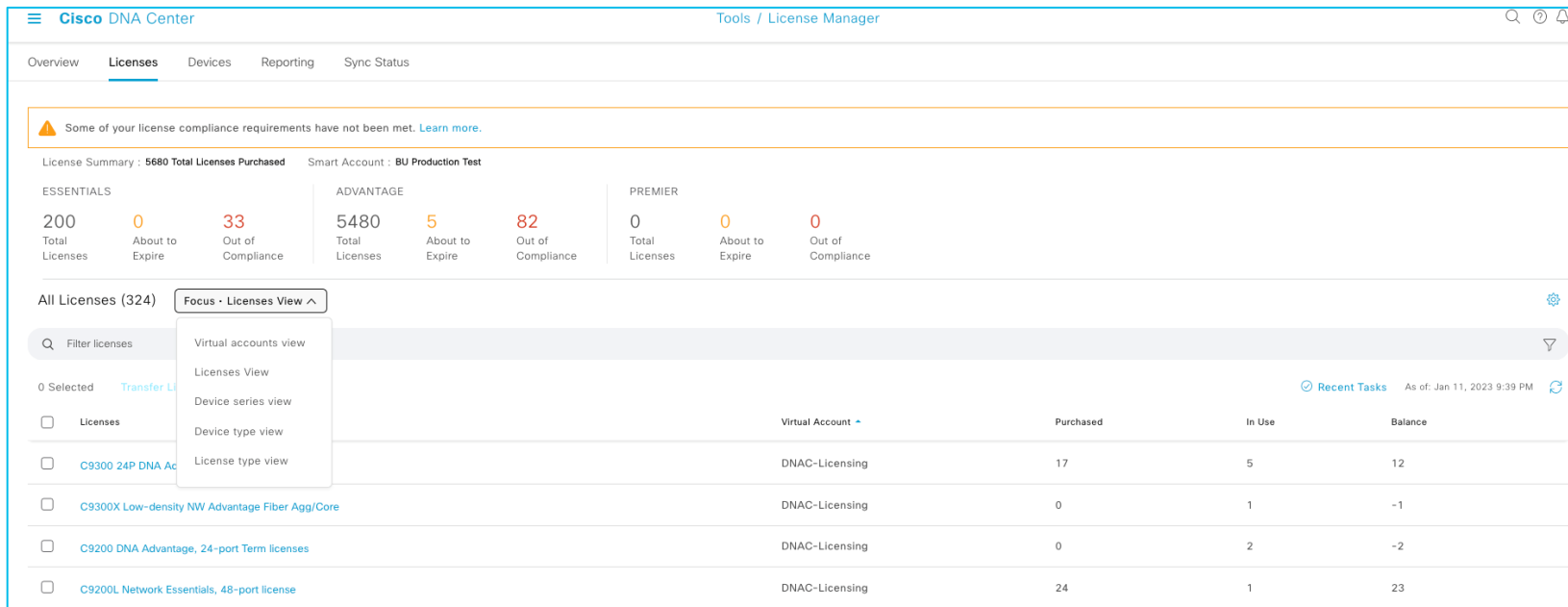
Cisco Catalyst 3850 Series Ethernet Stackable Switch

Total Devices: 1

PURCHASED LICENSES			
Cisco DNA	50	Legacy	0
Essentials	0	-	
Advantage	50	-	
Premier	0	-	

USED LICENSES			
49 Purchased Cisco DNA license(s) available			
Cisco DNA	1	Legacy	1
Essentials	0	-	
Advantage	1	-	
Premier	0	-	

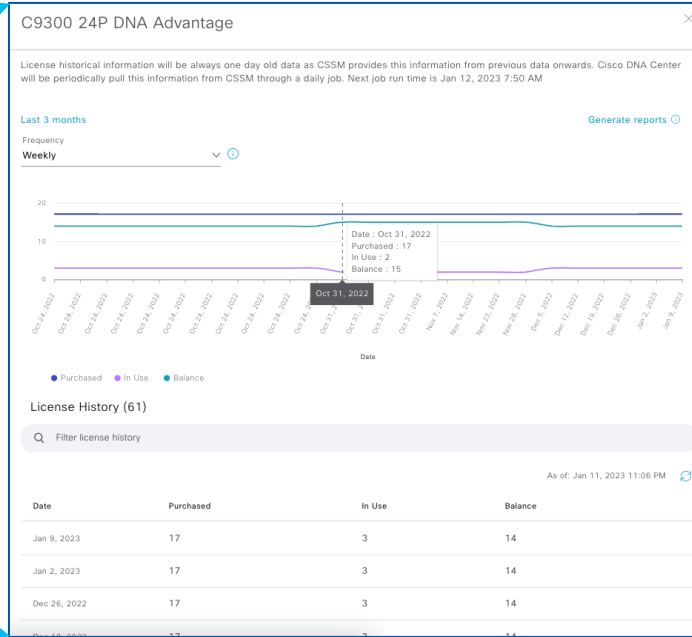
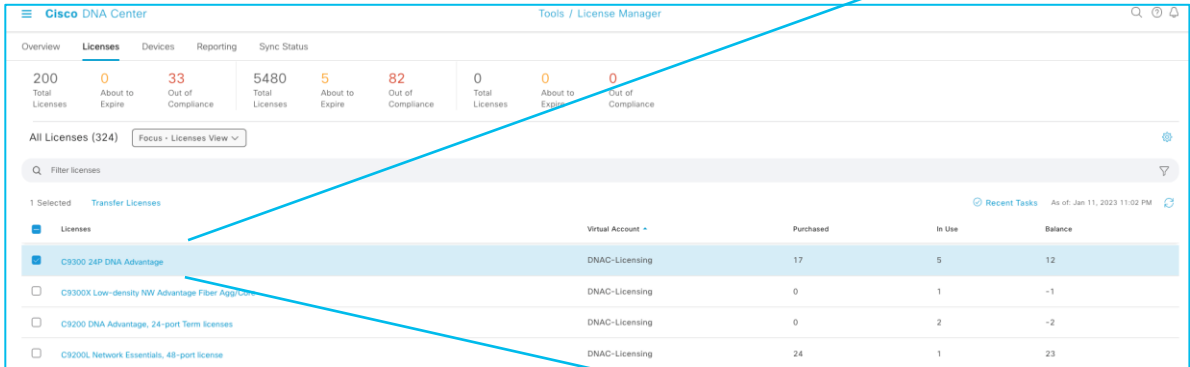
# License Manager Dashboard



- Aggregate count of DNA license types with expiry and compliance info
- License Timeline by device type



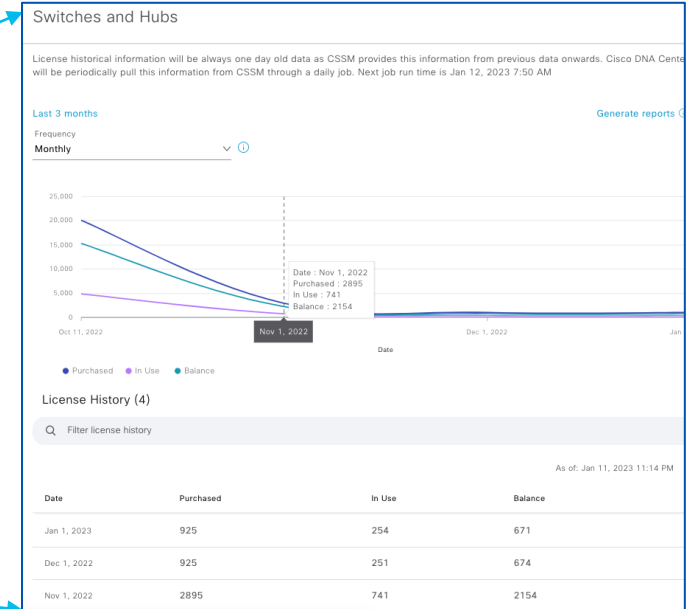
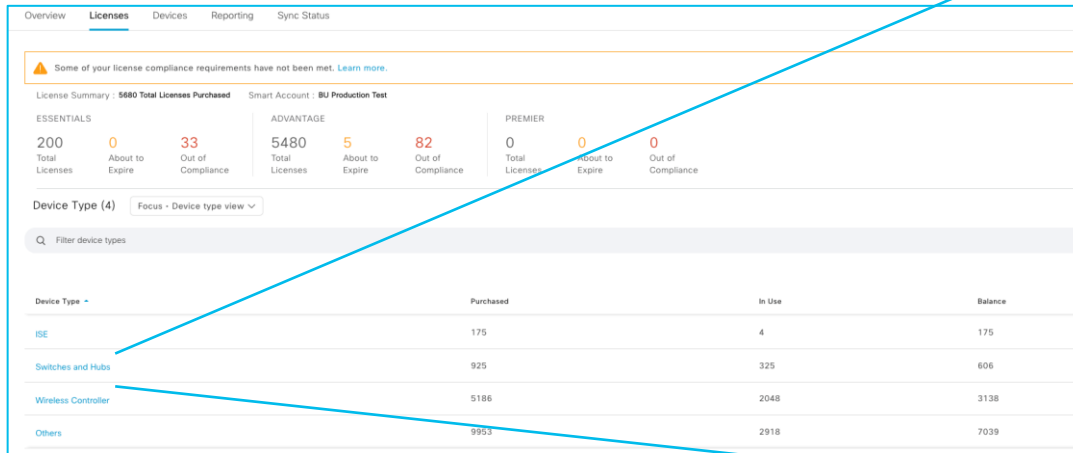
# Historical License Info – License View



- License historical info\* – Daily, weekly, monthly frequency
- Timeline graph – Purchased, In Use, Balance Info

\*License historical information is always one day old data

# Historical License Info – Device View



- License historical info\* – Daily, weekly, monthly frequency
- Timeline graph – Purchased, In Use, Balance Info

\*License historical information is always one day old data

# Manage Cisco DNA Licenses



# Register Smart License

- Select device to register
- Auto-register smart enabled devices

The screenshot shows the Cisco Smart License Management Center (SLM) interface. The 'Devices' tab is active, displaying a list of 14 devices. A context menu is open for the selected device, showing options: Change License, Change Virtual Account, Manage Smart License, Manage License Reservation, and Deposit Traditional Licenses. The 'Manage Smart License' option is highlighted, and its sub-menu is open, showing 'Register' and 'Deregister' options. The 'Register' option is highlighted.

Devices (14)

Filter by Device Name. Use column filters to filter by other attributes.

DNA License: All Essentials Advantage Premier License Mode: All RTU SL

1 Selected Actions Upload CSV Export Recent Tasks As of: Jan 11, 2023 11:28 PM

	Family	IP Address	Device Series	Cisco DNA License	Cisco DNA License Expiry	License Mode	Network License	Virtual Account
<input type="checkbox"/>	Switches and Hubs	10.5.40.5	Cisco Catalyst 1000 Series Switches	NA	NA	RTU	NA	NA
<input type="checkbox"/>	Switches and Hubs	10.5.34.1	Cisco 4000 Series Integrated Services Routers	NA	NA	SL	NA	NA
<input type="checkbox"/>	Switches and Hubs	10.4.111.14	Cisco Catalyst 9400 Series Switches	NA	NA	SL	Advantage	NA
<input type="checkbox"/>	Switches and Hubs	10.4.40.254	Cisco Catalyst 6800 Series Switches	NA	NA	RTU	NA	NA
<input type="checkbox"/>	Switches and Hubs	10.4.79.5	Cisco Catalyst 4500 Series Switches	NA	NA	RTU	Legacy	NA
<input checked="" type="checkbox"/>	Wireless Controller	10.4.174.32	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA
<input type="checkbox"/>	Switches and Hubs	10.4.15.9	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA

# Change Cisco DNA License Level

- Select device to change license level
- Upgrade or downgrade DNA subscription licenses

The screenshot shows the Cisco DNA Center interface, specifically the 'Tools / License Manager' section. The 'Devices' tab is selected, displaying a list of devices. A context menu is open for the device 'WLC-9800-2.cisco.local', showing options like 'Change License', 'Change Virtual Account', and 'Change Performance License'. The table below lists various devices and their associated licenses.

DNA License	License Mode	Device Series	Cisco DNA License	Cisco DNA License Expiry	License Mode	Network License	Virtual Account
RTU	SL	Cisco Catalyst 1000 Series Switches	NA	NA	RTU	NA	NA
SL	SL	Cisco 4000 Series Integrated Services Routers	NA	NA	SL	NA	NA
SL	SL	Cisco Catalyst 9400 Series Switches	NA	NA	SL	Advantage	NA
RTU	RTU	Cisco Catalyst 6800 Series Switches	NA	NA	RTU	NA	NA
RTU	RTU	Cisco Catalyst 4500 Series Switches	NA	NA	RTU	Legacy	NA
Advantage	SL	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA

# Change Cisco DNA License Level

- Select desired subscription license
- On-demand or scheduled
- Reboot on update for changes to be in effect

Change Cisco DNA License Level

✓ Device Family

✓ License Level

✓ Confirm

Change Cisco DNA License Level to:

☐ Remove

☒ Essentials

☐ Advantage

Back

Continue

Change Cisco DNA License Level

✓ Device Family

✓ License Level

3 Confirm

**Cisco DNA License for 1 device(s) will be activated to Essentials.**

Note: Network license may be downgraded to Essentials for applicable devices.  
License change will take effect only after the device rebooted. Some devices like CAT3560-CX, AireOS controllers will not reboot even after selecting this checkbox.

☐ Reboot device on update

☒ Now

☐ Later

Task Name\*

License update

Back

Confirm

CISCO *Live!*

BRKOPS-2109

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

38

# Change Virtual Account

- Devices are managed with mapped Virtual Accounts
- Option to change VA

DNA License										
All		Essentials	Advantage	Premier	License Mode		All	RTU	SL	
1 Selected		Actions	Upload CSV				Export	Recent Tasks	As of: Jan 12, 2023 1:11 AM	
	Device Name	Device Family	IP Address	Device Series	Cisco DNA License	Cisco DNA License Expiry	License Mode	Network License	Virtual Account	Registration Status
<input type="checkbox"/>	RS4-C1000-24FP.cisco.local	Switches and Hubs	10.5.40.5	Cisco Catalyst 1000 Series Switches	NA	NA	RTU	NA	NA	Unknown
<input type="checkbox"/>	RS1-4431.cisco.local	Routers	10.5.34.1	Cisco 4000 Series Integrated Services Routers	NA	NA	SL	NA	NA	Unregistered
<input type="checkbox"/>	AD4-9404.cisco.local	Switches and Hubs	10.4.111.14	Cisco Catalyst 9400 Series Switches	NA	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	C-6807-1.cisco.local	Switches and Hubs	10.4.40.254	Cisco Catalyst 6800 Series Switches	NA	NA	RTU	NA	NA	Unknown
<input type="checkbox"/>	AD2-4503.cisco.local	Switches and Hubs	10.4.79.5	Cisco Catalyst 4500 Series Switches	NA	NA	RTU	Legacy	NA	Unknown
<input type="checkbox"/>	WLC-9800-2.cisco.local 3 APs	Wireless Controller	10.4.174.32	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	AD1-C9300.cisco.local	Switches and Hubs	10.4.15.9	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	AD4-9300-5.cisco.local	Switches and Hubs	10.4.111.25	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	AD4-9300-1	Switches and Hubs	10.4.111.10	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	Unregistered
<input type="checkbox"/>	C9800-CL-2024.cisco.local 4 APs	Wireless Controller	10.4.174.54	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	WLC-9800-1.cisco.local 2 APs	Wireless Controller	10.4.174.34	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA
<input checked="" type="checkbox"/>	RS1-A3850.cisco.local	Switches and Hubs	10.5.34.5	Cisco Catalyst 3850 Series Ethernet Stackable Switch	Advantage	NA	SL	Legacy	DNAC-Licensing	Registered

# Change Virtual Account

- Desired VA selection
- On-demand or scheduled change

Select Destination Virtual Account

SMART ACCOUNT

Name

BU Production Test

Domain

buproductiontest.cisco.com

Q

Search Table

	Name	Cisco DNA License Count	Description
<input type="radio"/>	DNAC-Licensing 1 Device(s)	56	
<input type="radio"/>	DNAC-Licensing- Bangalore-Lab	5139	
<input type="radio"/>	dnac-smartlic	163	for dnac
<input type="radio"/>	Prime Infrastructure		

Showing 4 of 4

Cancel

Continue

Select Destination Virtual Account

Migrating 1 device(s) to **DNAC-Licensing-Bangalore-Lab**

☐ Now ☒ Later

Task Name\*

Virtual Account Migration

Start Date/Time

Jan 12, 2023

1:13

AM

▼

Time Zone

Asia/Calcutta

▼

Back

Confirm



# Change Virtual Account

- Devices mapped to target Virtual Accounts

DNA License											
All		Essentials	Advantage	Premier	License Mode	All	RTU	SL			
1 Selected		Actions	Upload CSV				Export	Recent Tasks	As of: Jan 12, 2023 1:16 AM		
	Device Name	Device Family	IP Address	Device Series	Cisco DNA License	Cisco DNA License Expiry	License Mode	Network License	Virtual Account	Registration Status	
<input type="checkbox"/>	RS4-C1000-24FP.cisco.local	Switches and Hubs	10.5.40.5	Cisco Catalyst 1000 Series Switches	NA	NA	RTU	NA	NA	Unknown	
<input type="checkbox"/>	RS1-4431.cisco.local	Routers	10.5.34.1	Cisco 4000 Series Integrated Services Routers	NA	NA	SL	NA	NA	Unregistered	
<input type="checkbox"/>	AD4-9404.cisco.local	Switches and Hubs	10.4.111.14	Cisco Catalyst 9400 Series Switches	NA	NA	SL	Advantage	NA	NA	
<input type="checkbox"/>	C-6807-1.cisco.local	Switches and Hubs	10.4.40.254	Cisco Catalyst 6800 Series Switches	NA	NA	RTU	NA	NA	Unknown	
<input type="checkbox"/>	AD2-4503.cisco.local	Switches and Hubs	10.4.79.5	Cisco Catalyst 4500 Series Switches	NA	NA	RTU	Legacy	NA	Unknown	
<input type="checkbox"/>	WLC-9800-2.cisco.local 3 APs	Wireless Controller	10.4.174.32	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA	
<input type="checkbox"/>	AD1-C9300.cisco.local	Switches and Hubs	10.4.15.9	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	NA	
<input type="checkbox"/>	AD4-9300-5.cisco.local	Switches and Hubs	10.4.111.25	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	NA	
<input type="checkbox"/>	AD4-9300-1	Switches and Hubs	10.4.111.10	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	Unregistered	
<input type="checkbox"/>	C9800-CL-2024.cisco.local 4 APs	Wireless Controller	10.4.174.54	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA	
<input type="checkbox"/>	WLC-9800-1.cisco.local 2 APs	Wireless Controller	10.4.174.34	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA	
<input checked="" type="checkbox"/>	RS1-A3850.cisco.local	Switches and Hubs	10.5.34.5	Cisco Catalyst 3850 Series Ethernet Stackable Switch	Advantage	NA	SL	Legacy	DNAC-Licensing-Bangalore-Lab In-progress	Registered	

# Smart License Deregister

- Device registered to Smart Account

DNA License										
All		Essentials	Advantage	Premier	License Mode		All	RTU	SL	
1 Selected		Actions	Upload CSV				Export	Recent Tasks	As of: Jan 12, 2023 1:19 AM	
	Device Name	Device Family	IP Address	Device Series	Cisco DNA License	Cisco DNA License Expiry	License Mode	Network License	Virtual Account	Registration Status
<input type="checkbox"/>	RS4-C1000-24FP.cisco.local	Switches and Hubs	10.5.40.5	Cisco Catalyst 1000 Series Switches	NA	NA	RTU	NA	NA	Unknown
<input type="checkbox"/>	RS1-4431.cisco.local	Routers	10.5.34.1	Cisco 4000 Series Integrated Services Routers	NA	NA	SL	NA	NA	Unregistered
<input type="checkbox"/>	AD4-9404.cisco.local	Switches and Hubs	10.4.111.14	Cisco Catalyst 9400 Series Switches	NA	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	C-6807-1.cisco.local	Switches and Hubs	10.4.40.254	Cisco Catalyst 6800 Series Switches	NA	NA	RTU	NA	NA	Unknown
<input type="checkbox"/>	AD2-4503.cisco.local	Switches and Hubs	10.4.79.5	Cisco Catalyst 4500 Series Switches	NA	NA	RTU	Legacy	NA	Unknown
<input type="checkbox"/>	WLC-9800-2.cisco.local 3 APs	Wireless Controller	10.4.174.32	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	AD1-C9300.cisco.local	Switches and Hubs	10.4.15.9	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	AD4-9300-5.cisco.local	Switches and Hubs	10.4.111.25	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	AD4-9300-1	Switches and Hubs	10.4.111.10	Cisco Catalyst 9300 Series Switches	Advantage	NA	SL	Advantage	NA	Unregistered
<input type="checkbox"/>	C9800-CL-2024.cisco.local 4 APs	Wireless Controller	10.4.174.54	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	WLC-9800-1.cisco.local 2 APs	Wireless Controller	10.4.174.34	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	NA	SL	Advantage	NA	NA
<input checked="" type="checkbox"/>	RS1-A3850.cisco.local	Switches and Hubs	10.5.34.5	Cisco Catalyst 3850 Series Ethernet Stackable Switch	Advantage	NA	SL	Legacy	DNAC-Licensing-Bangalore-Lab	Registered

# Smart license Deregister

The screenshot shows the Cisco Smart License management interface. A modal dialog titled "Deregister Smart License" is open, allowing the user to deregister a selected device. The background shows a table of 14 devices, with the last device, "RS1-A3850.cisco.local", selected.

**Deregister Smart License Dialog:**

- 1 device(s) will be deregistered from smart licensing.
- ☐ Now ☒ Later
- Task Name\*
- Deregister License
- Start Date/Time: Jan 12, 2023
- Time: 1:20 AM
- Time Zone: Asia/Calcutta
- Buttons: Cancel, Continue

**Device List (Selected: RS1-A3850.cisco.local):**

Device Name	Device Family	IP Address	Device	License Mode	Network License	Virtual Account	Registration Status
RS4-C1000-24FP.cisco.local	Switches and Hubs	10.5.40.5	Cisco	Advantage	NA	NA	Unknown
RS1-4431.cisco.local	Routers	10.5.34.1	Cisco	Advantage	NA	NA	Unregistered
AD4-9404.cisco.local	Switches and Hubs	10.4.111.14	Cisco	Advantage	NA	NA	Unknown
C-6807-1.cisco.local	Switches and Hubs	10.4.40.254	Cisco	Advantage	NA	NA	Unknown
AD2-4503.cisco.local	Switches and Hubs	10.4.79.5	Cisco	Advantage	Legacy	NA	Unknown
WLC-9800-2.cisco.local 3 APs	Wireless Controller	10.4.174.32	Cisco	Advantage	Advantage	NA	NA
AD1-C9300.cisco.local	Switches and Hubs	10.4.15.9	Cisco	Advantage	Advantage	NA	NA
AD4-9300-5.cisco.local	Switches and Hubs	10.4.111.25	Cisco Catalyst 9300 Series Switches	Advantage	Advantage	NA	NA
AD4-9300-1	Switches and Hubs	10.4.111.10	Cisco Catalyst 9300 Series Switches	Advantage	Advantage	NA	Unregistered
C9800-CL-2024.cisco.local 4 APs	Wireless Controller	10.4.174.54	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	Advantage	NA	NA
WLC-9800-1.cisco.local 2 APs	Wireless Controller	10.4.174.34	Cisco Catalyst 9800 Series Wireless Controllers	Advantage	Advantage	NA	NA
RS1-A3850.cisco.local	Switches and Hubs	10.5.34.5	Cisco Catalyst 3850 Series Ethernet Stackable Switch	Advantage	Legacy	DNAC-Licensing-Bangalore-Lab	Registered

# Smart License Deregister

Overview Licenses **Devices** Reporting Sync Status

📍 Global

⚠️ One (1) Warning Alert and Three (3) Information Alerts on this page. [Expand](#) to see detail.

**Devices (14)** ⚙️

🔍 Filter by Device Name. Use column filters to filter by other attributes. ⌵

DNA License All Essentials Advantage Premier

License Mode All RTU SL

1 Selected Actions 📄 Upload CSV 📄 Export 🕒 Recent Tasks As of: Jan 12, 2023 1:20 AM 🔄

<input type="checkbox"/>	Device Name	Device Family	IP Address	Device Series	Cisco DNA License	Cisco DNA License Expiry	License Mode	Network License	Virtual Account	Registration Status
<input type="checkbox"/>	<a href="#">RS4-C1000-24FP.cisco.local</a>	Switches and Hubs	10.5.40.5	Cisco Catalyst 1000 Series Switches	NA	NA	RTU	NA	NA	Unknown
<input checked="" type="checkbox"/>	<a href="#">RS1-4431.cisco.local</a>	Routers	10.5.34.1	Cisco 4000 Series Integrated Services Routers	NA	NA	SL	NA	NA	Unregistered
<input type="checkbox"/>	<a href="#">AD4-9404.cisco.local</a>	Switches and Hubs	10.4.111.14	Cisco Catalyst 9400 Series Switches	NA	NA	SL	Advantage	NA	NA
<input type="checkbox"/>	<a href="#">C-6807-1.cisco.local</a>	Switches and Hubs	10.4.40.254	Cisco Catalyst 6800 Series Switches	NA	NA	RTU	NA	NA	Unknown
<input type="checkbox"/>	<a href="#">AD2-4503.cisco.local</a>	Switches and Hubs	10.4.79.5	Cisco Catalyst 4500 Series Switches	NA	NA	RTU	Legacy	NA	Unknown

# License Reservation

# License Reservation

- In highly secure networks with limited internet access and cannot regularly sync with CSSM
- Specific License Reservation (SLR) and Permanent License Reservation (PLR)
- Securely reserve licenses from CSSM using an API-based workflow
- Requires one-time connectivity to CSSM
- If no connectivity to CSSM ( Air-Gapped network), follow manual SLR/PLR workflow in CSSM

# License Reservation

- Specific License Reservation
  - Install a node-locked license file (SLR authorization code) on a product instance
  - Enable individual licenses
- Permanent License Reservation
  - Install authorization code that enables all licensed features on product
- Supported Platforms: Catalyst IE 3400, 3650, 3850, 9300, 9400 , 9500 series switches and 9800 wireless controllers in SL unregistered mode or SLR/PLR is active

# Demo



Questions?



# Complete your Session Survey

We'd love to hear from you!

- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (open from Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Session Catalog and clicking the "Attendee Dashboard" at <https://www.ciscolive.com/emea/learn/sessions/session-catalog.html>



# Cisco Learning and Certifications

From technology training and team development to Cisco certifications and learning plans, let us help you empower your business and career. [www.cisco.com/go/certs](http://www.cisco.com/go/certs)

## Pay for Learning with Cisco Learning Credits

(CLCs) are prepaid training vouchers redeemed directly with Cisco.



## Learn

### Cisco U.

IT learning hub that guides teams and learners toward their goals

### Cisco Digital Learning

Subscription-based product, technology, and certification training

### Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

### Cisco Learning Network

Resource community portal for certifications and learning



## Train

### Cisco Training Bootcamps

Intensive team & individual automation and technology training programs

### Cisco Learning Partner Program

Authorized training partners supporting Cisco technology and career certifications

### Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses



## Certify

### Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

### Cisco Guided Study Groups

180-day certification prep program with learning and support

### Cisco Continuing Education Program

Recertification training options for Cisco certified individuals

Here at the event? Visit us at The Learning and Certifications lounge at the World of Solutions

# Continue Your Education



Visit the Cisco Showcase for related demos.



Book your one-on-one Meet the Engineer meeting.



Attend any of the related sessions at the DevNet, Capture the Flag, and Walk-in Labs zones.



Visit the On-Demand Library for more sessions at [ciscolive.com/on-demand](https://ciscolive.com/on-demand).



The bridge to possible

# Thank you

CISCO *Live!*

ALL IN