

# Probleemoplossing voor Catalyst Center-gebruikscases en werkstromen voor licenties

## Inhoud

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[Inleiding](#)

[Voorwaarden](#)

[Vereisten](#)

[Gebruikte componenten](#)

[Achtergrondinformatie](#)

[Scenario's](#)

[Scenario 1: Registratie van apparaatlicenties via Cisco Catalyst Center License Manager: Verouderde methode](#)

[Scenario 2: Registratie van apparaatlicenties via Cisco Catalyst Center License Manager: CSLU Reporting Workflow](#)

[Voorwaarden](#)

[Cisco Catalyst 6500 Center](#)

[Netwerkapparaat](#)

[Scenario 3: Licentiemigratie tussen virtuele accounts](#)

[Scenario 4: Licentiemigratie tussen slimme accounts](#)

[Scenario 5: wijziging van de SSM-verbindingsmodus](#)

[Scenario 6: integratie van slimme account met Cisco Catalyst Center](#)

[Scenario 7: wijziging van het licentieniveau](#)

[Gerelateerde informatie](#)

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## Inleiding

Dit document beschrijft verschillende licentiescenario's van Cisco Catalyst Center die vaak worden aangetroffen.

## Voorwaarden

### Vereisten

Er zijn geen specifieke vereisten van toepassing op dit document.

### Gebruikte componenten

Dit document is niet beperkt tot specifieke software- en hardware-versies.

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u zorgen dat u de potentiële

impact van elke opdracht begrijpt.

## Achtergrondinformatie

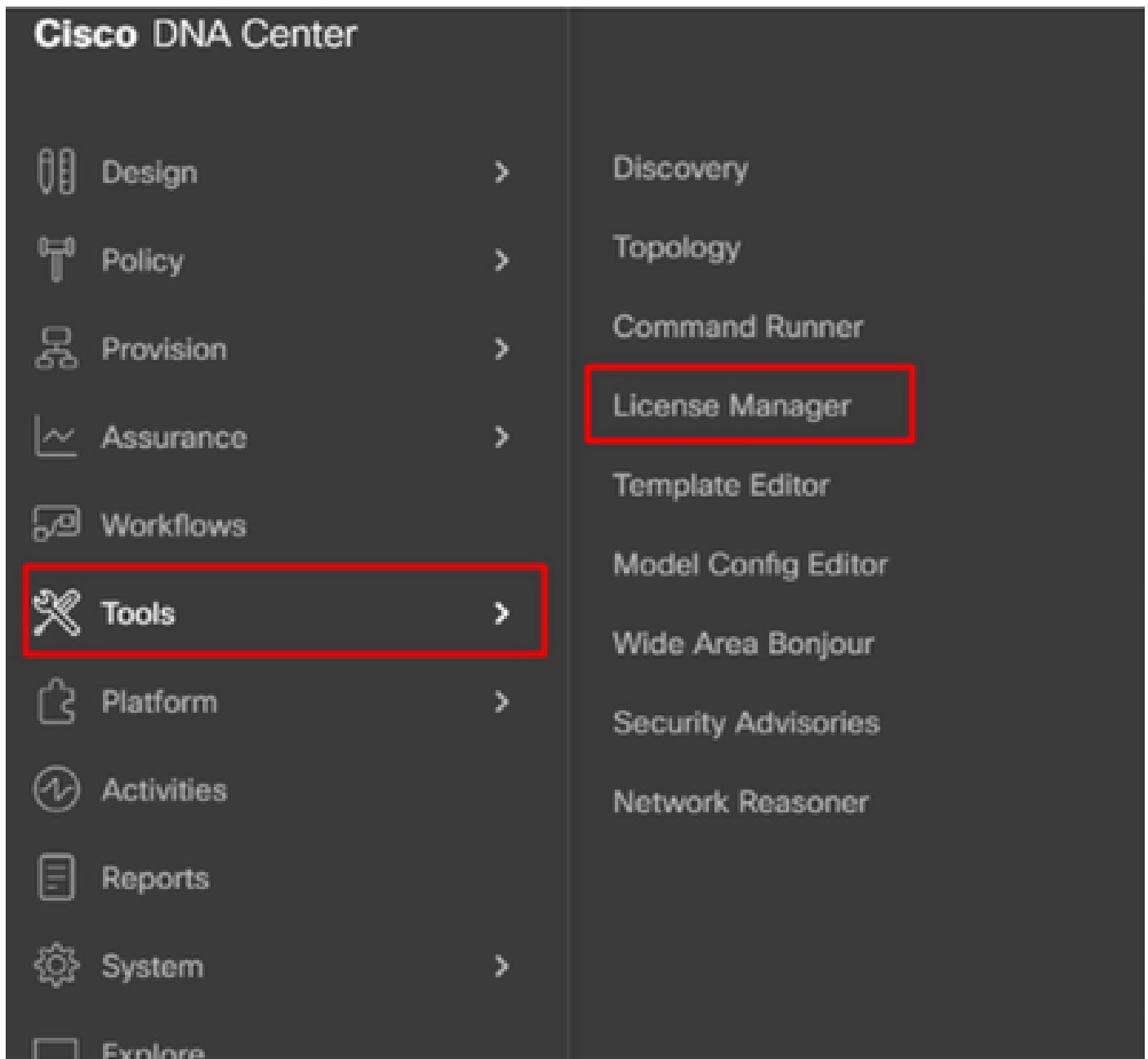
Dit document bevat de stapsgewijze details over het gebruik van de Licentiebeheer-workflow van Cisco Catalyst Center (voorheen bekend als DNA Center) voor de registratie van apparaatlicenties, licentiemigratie tussen virtuele accounts via CSM, enzovoort.

## Scenario's

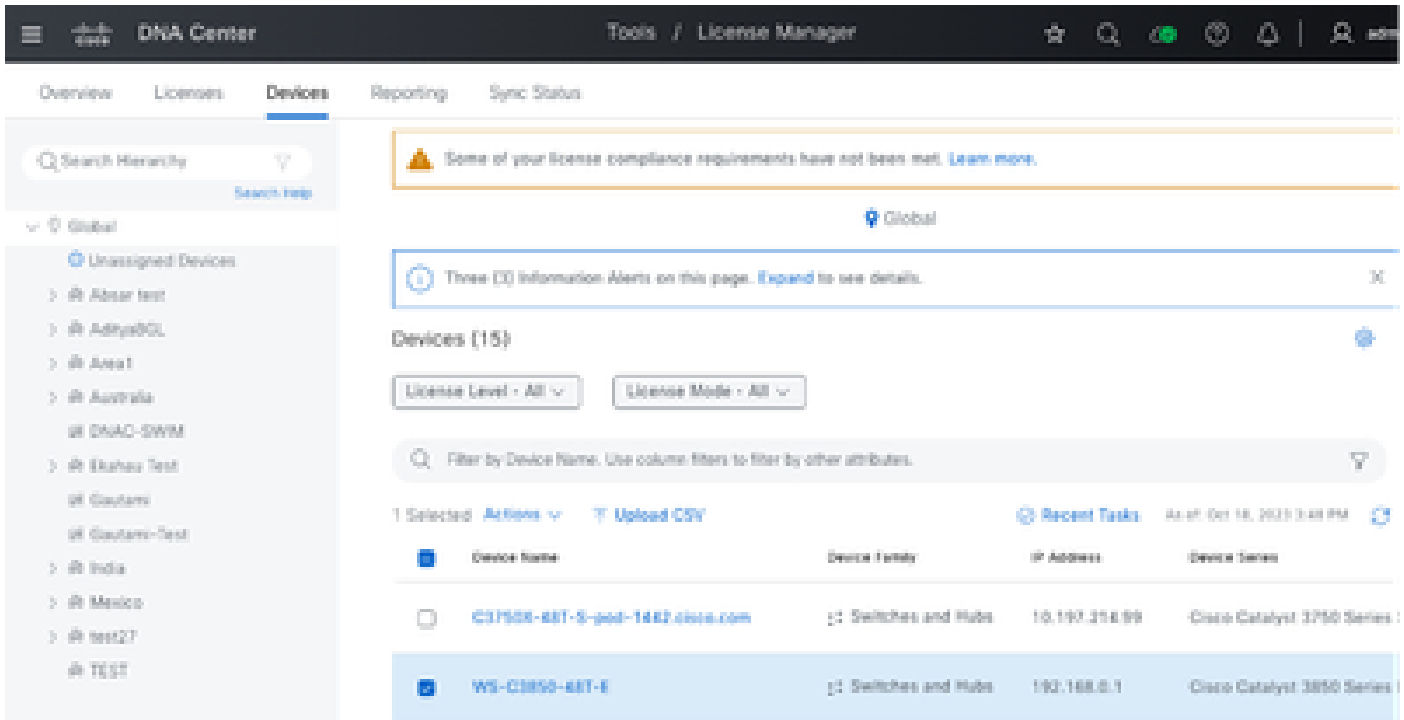
### Scenario 1: Registratie van apparaatlicenties via Cisco Catalyst Center License Manager: Verouderde methode

Stap 1. Meld u aan bij Cisco Catalyst Center via beheerdersreferenties of via een aangepaste rol met super-admin-rechten.

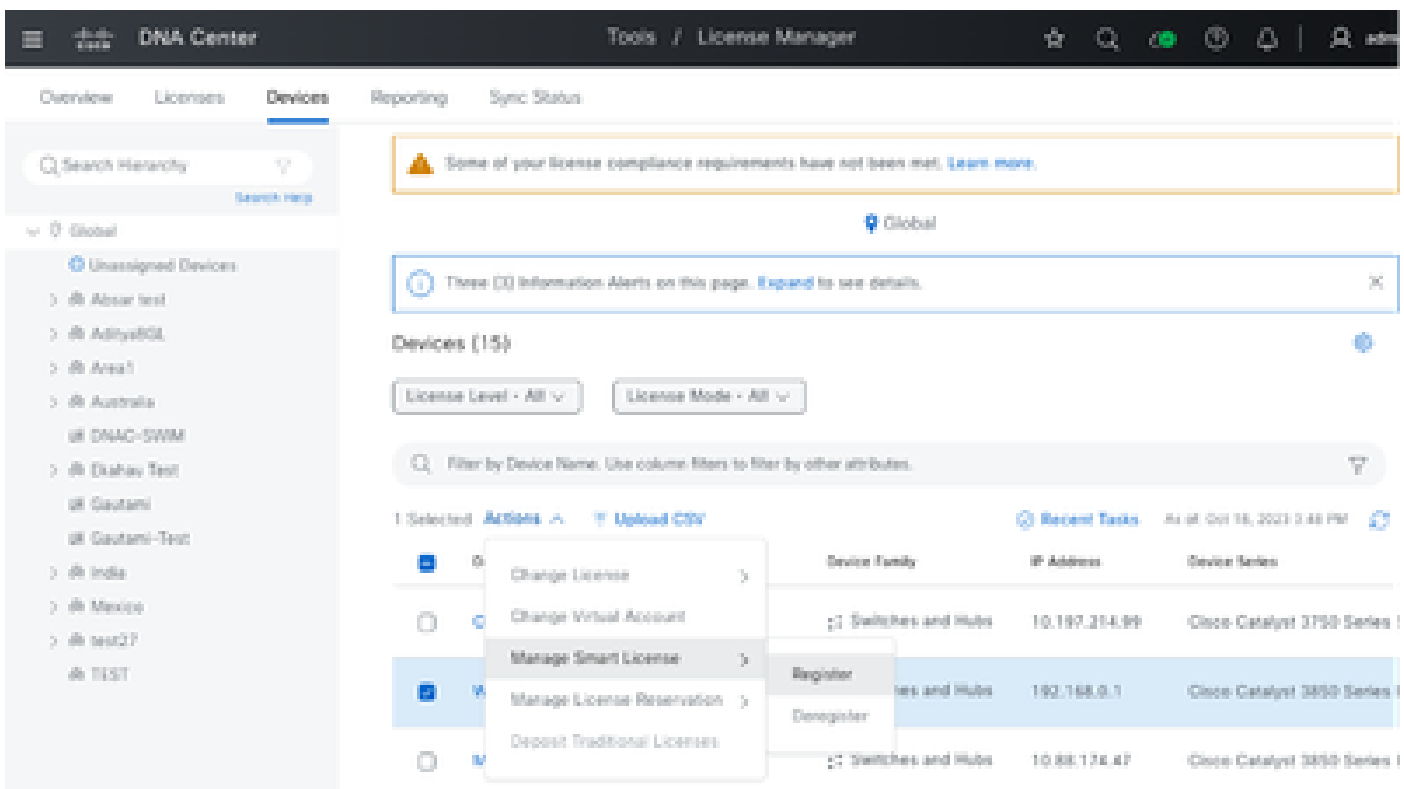
Stap 2. Ga naar Hamburger en selecteer Gereedschappen > Licentiebeheer.



Stap 3. Selecteer het tabblad Apparaten en gebruik de optie Filter of blader door de tabel om de apparaten te vinden waarvan u de licenties wilt registreren.



Stap 4. Selecteer het aanvinkvakje naast elk apparaat waarvan u de licentie wilt registreren en kies vervolgens Acties > Slimme licentie beheren > Registreren.



Stap 5. Kies de virtuele account waar de betreffende licentie is gedeponeerd en klik op Doorgaan.

# Register Smart License

## SMART ACCOUNT

Name Cisco Systems, TAC Domain tac.cisco.com

Search Table

	Name	Cisco DNA License Count	Description
<input type="radio"/>	Bangalore DNAC TAC	0	DNAC TAC-POD's Device Licenses are deposited here.
<input type="radio"/>	NMS	0	

Showing 2 of 2

Cancel

Continue

Stap 6. Cisco Catalyst Center vraagt of de wijziging onmiddellijk of later moet worden toegepast. Kies de gewenste optie en klik op Bevestigen.

# Register Smart License

Registering 1 device(s) to **Bangalore DNAC TAC**

Now  Later

Task Name\*

License mode update

Cancel

Confirm

## Scenario 2: Registratie van apparaatlicenties via Cisco Catalyst Center License Manager: CSLU Reporting Workflow

- On DNA Center release 2.2.1.0 and devices running 17.3.2 or higher:
  - Devices are no longer required to get registered with CSSM
  - License usage information will be stored in a secured location on the device
    - RUM or Usage Reports
  - Now, Cisco DNA Center is going to pull the reports and upload it to CSSM
  - Uploads can be done periodically or on demand basis
  - CSSM go through reports and make the respective updates on Virtual Account
  - After that, CSSM is going to sent and Acknowledge to DNAC if report is good
  - Finally, Cisco DNA Center is going to update the license status on GUI and on the Device itself
  - Cisco DNA Center can generate PDF reports for users

### Voorwaarden

#### Cisco Catalyst 6500 Center

- Cisco Catalyst Center moet op release 2.2.1.0 en hoger worden uitgevoerd.
- Cisco Catalyst Center moet kunnen communiceren met het CSM-portal en in staat zijn om tools.cisco.com te bereiken.
- Op Catalyst Center moet de juiste SSM-verbindingsmodus worden gekozen. CSLU-workflow is niet van toepassing voor On-Prem CSM (Satellite Server) vanaf Catalyst Center release 2.3.5.5.
- CSLU-workflow is niet van toepassing voor AireOS draadloze controllers (modellen: 3504, 5520, 8540).

#### Netwerkapparaat

- Het apparaat moet op Cisco IOS® XE 17.3.2 of hoger worden uitgevoerd en moet voldoende ruimte in de flitser hebben voor het Rum-rapport.
- Apparaat moet netconf-yang-model hebben geconfigureerd en Cisco Catalyst Center moet met het apparaat kunnen communiceren via Netconf-poort 830.

#### Valideren:

```
show run | sec netconf-yang
```

- i. Tijdens apparaatdetectie in Cisco Catalyst Center moet de NetConf-parameter onder het gedeelte Credentials worden ingeschakeld.

## Provide Credentials

Next, enter the following credentials that Cisco DNA Center will configure for the devices it discovers. At least one CLI credential and one SNMP credential are required. You can have a maximum of five global credentials and one job-specific credential for each type.

CLI    SNMPv2(s) Read    SNMPv2(s) Write    SNMPv3    HTTP(S) Read    HTTP(S) Write    **NETCONF**

If your network contains IOS XE-based wireless controllers, please enter the port that should be used for discovery and the enabling of wireless services on these controllers. Select from existing ports or add new ones. You can also enter a job-specific port or a global port.

We recommend using port number 830. See also standard ports like 22, 80, 8080.

EXISTING GLOBAL NETCONF PORT

830

- ii. Als de NetConf-parameter niet was ingeschakeld op het moment van apparaatdetectie, gebruikt u de optie Apparaat bewerken in de inventaris van Cisco Catalyst Center om deze optie in te schakelen.

### Edit Device ✕

Credentials
Management IP
Resync Interval
Device Role

> SNMP\*

---

> SNMP Retries and Timeout\*

---

> HTTP(S)

---

▼ NETCONF

Port  
**830**

---

Hint

• NETCONF with user privilege 15 is mandatory for enabling Wireless Services on Wireless capable devices such as Catalyst 9000 series Switches and C9800 Series Wireless Controllers. The NETCONF credentials are required to connect to C9800 Series Wireless Controllers as the majority of data-collection is done using NETCONF for these Devices.

- Op het apparaat moet sdn-network-infra-iwan trustpoint zijn geïnstalleerd. Dit wordt gedaan door het Cisco Catalyst Center.

Valideren:

toon crypto pki trustpoint sdn-netwerk-infra-iwan (om te controleren trustpoint)

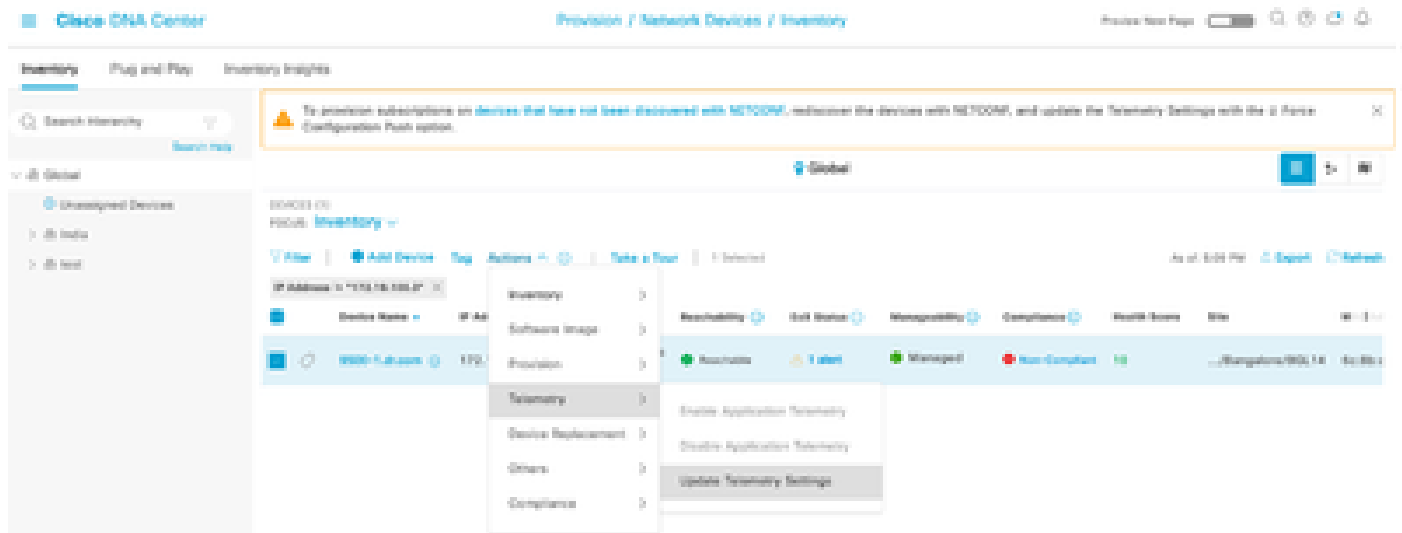
tonen crypto pki certificaten breedbase sdn-netwerk-infra-iwan (om te controleren de trustpoint in detail)

- Als het sdn-netwerk-infra-iwan trustpoint niet is geïnstalleerd, voert u de volgende stappen uit:

Stap 1. Meld u aan bij Cisco Catalyst Center via beheerdersreferenties of via een aangepaste rol met super-admin-rechten.

Stap 2. Ga naar Hamburger en selecteer Provision > Inventory.

Stap 3. Selecteer het apparaat waarop u het trustpoint wilt installeren, klik op Acties > Telemetrie > Telemetrie bijwerken.



Stap 4. Selecteer Force Configuration Push en klik op Volgende



## Update Telemetry Settings



Force Configuration Push ⓘ

GLOBAL/INDIA/BANGALORE/ISGL14

9500-1.dr.com

9500-1.dr.com

The following settings will be deployed during assignment to site.

Syslog Server	Cisco DNA Center
Netflow Collector	Cisco DNA Center
Cisco TrustSec (CTS) Credentials	Yes
Wireless Streaming Telemetry	Yes
SNMP Trap Receiver	Cisco DNA Center
DTLS Ciphersuite	Skipped
AP Impersonation	Enabled
Cisco TrustSec (CTS) Credentials	Yes
Syslog Level	6 - Information Messages
Controller Certificates	Yes

Cancel

Next

Stap 5. Selecteer Nu en klik op Toepassen. Dit heeft geen invloed op de productie.

## Update Telemetry Settings ✕

Now  Later

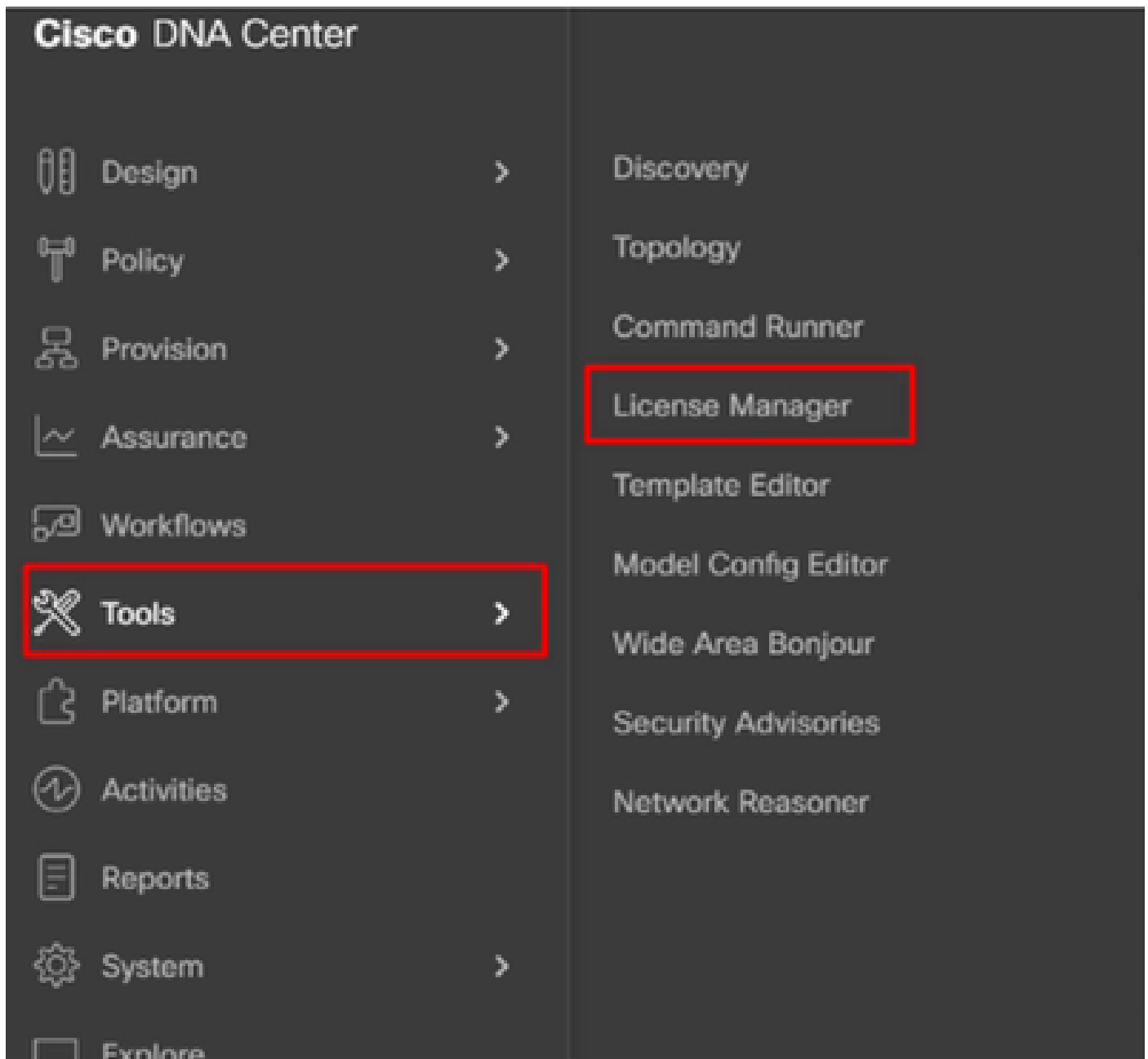
Generate configuration preview  
Creates preview which can be later used to deploy on selected devices. View status in [Work Items](#)

Task Name\*  
Update Telemetry Settings Task

[Cancel](#) [Back](#) [Apply](#)

Als aan alle voorwaarden is voldaan, voert u de volgende stappen uit om het Rapportagewerkschema uit te voeren:

Stap 1. Meld u aan bij Cisco Catalyst Center via beheerdersreferenties of via een aangepaste rol met super-admin-rechten.



Stap 2. Ga naar Hamburger en selecteer Gereedschappen > Licentiebeheer.

Stap 3. Selecteer het tabblad Rapportage en lokaliseer het dashlet Smart License Compliance; klik op het dashlet om de workflow te starten.

Overview Licenses Devices **Reporting** Sync Status

Search Hierarchy

Search Help

Global

Unassigned Devices

India

test

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

Available Workflows **Recent Workflows**



### Smart License Compliance

5 device(s) are ready right now for streamlined licensing updates.

Stap 4. Selecteer de Smart Account en Virtual Account waar de apparaatlicenties zijn opgeslagen en klik op Volgende.

Cisco DNA Center Smart License Compliance

### Select Smart Account

Choose the Smart account or Virtual Account which these Network Devices will be associated with. If multiple accounts need to be utilized, you may associate devices by site or by selection later.

Workflow Name  
Started on December 12th 2020, 4:10:51 PM

Smart Account	
Smart Account Cisco Systems, TAC	✔
Virtual Account	
Virtual Account Bengaluru (PRAC) TAC	✔

Save All changes saved Next

Stap 5. Kies het apparaat waarvan u het licentieverbruik wilt melden.

Cisco DNA Center Smart License Compliance

## Choose Sites and Devices

There are 6 network device(s) across several sites which are running IOS 17.3.2 or greater. You can choose to list all of them right now, or just a subset. If you don't list with the Cisco Smart Software Manager role, you may list at any time later.

Search Results

Device Name	Device Family	Device Series	IP Address	Software Version	Cisco PAK License	Last Report
9500-1-lab.com	Switches and Hubs	Cisco Catalyst 9500 Series Switches	172.16.100.3	17.3.1	Advantage	December 8, 2023 4:27 PM
9500-1-lab.com	Routers	Cisco 4000 Series Integrated Services Routers	172.16.100.2	17.3.1	NA	November 16, 2023 6:06 AM
9500-2-lab.com	Routers	Cisco 4000 Series Integrated Services Routers	172.16.100.10	17.3.4	NA	NA
9500-1000-2-lab.com	Switches and Hubs	Cisco Catalyst 9500 Series Switches	172.16.100.8	17.3.0	Advantage	NA
9500-1000-2-lab.com	Switches and Hubs	Cisco Catalyst 9500 Series Switches	172.16.100.7	17.3.1	Advantage	NA
9500-lab.com (p.01)	Wireless Controller	Cisco Catalyst 9500 Series Wireless Controllers	172.160.200.1	17.3.3	Advantage	NA

1 Results

Back Next

Stap 6. Wijzig indien nodig het Rapportageinterval.

Cisco DNA Center Smart License Compliance

## Modify Policy

The policy defines how often the network device(s) will report their feature usage. It overrides the default policy which enables only the core functionality on each device.

POLICY SETTINGS

Policy Name

Policy Description NA

Policy Version

Smart Account Cisco Systems, TAC

Reporting Interval 30 Days [Modify](#)

CSSM POLICY

Licenses	First Report Within	Report Usage Every	Report After Usage Change
No data to display			

Stap 7. Bekijk de samenvatting van apparaten en klik op Volgende om rapportage te activeren.

Cisco DNA Center Smart License Compliance

## Sync Data with Cisco

When you click "Next" Cisco DNA Center is going to retrieve the usage data from the device(s) and then send the data to CSSM. A report will be generated once that completes.

Submitting Devices

Device Name	Device Family	Device Series	IP Address	Software Version	Cisco PAK License
9500-1-lab.com	Switches and Hubs	Cisco Catalyst 9500 Series Switches	172.16.100.3	17.3.1	Advantage

## Summary

These are the following operations performed in this flow.

### Syncing Data

Sending device license usage data to CSSM. The time taken to sync this data depends on the size of usage data and number of requests queued for processing on CSSM.

Overall Sync Progress



#### Fetching Usage Report

Device	Status
9500-1.dn.com(172.19.180.3)	Usage consumption report collected from device successfully

## Summary

These are the following operations performed in this flow.

### Syncing Data

Sending device license usage data to CSSM. The time taken to sync this data depends on the size of usage data and number of requests queued for processing on CSSM.

Overall Sync Progress



#### Fetching Usage Report

#### Uploading Usage Report

Device	Status
9500-1.dn.com(172.19.180.3)	Usage consumption report uploaded to Cisco SSM cloud, waiting for acknowledgement

## Summary

These are the following operations performed in this flow.

### Syncing Data

Sending device license usage data to CSSM. The time taken to sync this data depends on the size of usage data and number of requests queued for processing on CSSM.

Overall Sync Progress



1. Fetching Usage Report
2. Uploading Usage Report
3. Provisioning Acknowledgement

## Scenario 3: Licentiemigratie tussen virtuele accounts

Stap 1. Meld u aan bij Cisco Catalyst Center via beheerdersreferenties of via een aangepaste rol met super-admin-rechten.

Stap 2. Log in op [software.cisco.com](https://software.cisco.com) en selecteer Licenties beheren.

The screenshot shows the Cisco Software Central website. At the top, there is a navigation bar with the Cisco logo and search, user, and help icons. Below the navigation bar is a large banner with the text "Cisco Software Central" and "Access everything you need to activate and manage your Cisco Smart Licenses." Below the banner, there are three main sections: "Smart Software Manager" (with a "Manage licenses" link), "Download and Upgrade" (with an "Access downloads" link), and "Traditional Licenses" (with an "Access LRP" link).

Stap 3. Navigeer naar Inventaris en selecteer de virtuele bronaccount.

# Smart Software Licensing

[Alerts](#) | [Inventory](#) | [Convert to Smart Licensing](#) | [Reports](#) | [Preferences](#) | [On-Prem Accounts](#) | [Activity](#)

Virtual Account: **TAC Cisco Systems, Inc....** ▾

On-Prem Virtual Account

**General** | Licent...

**Virtual Account**

Description:

Virtual Account Type:

**Product Instances**

Because this...

teelite™, all product instance registration tokens must be g

	By Name	By Tag
6 node cluster	335	38 2
AMM-ARCH-ONPREM	2	3
Bangalore DNAC TAC	11	2
deleted3		
RTP-CX2	2	1
sdwan-lab		3
sindhrao		1
<b>TAC Cisco Systems, Inc....</b>	<b>1</b>	<b>3</b>

TAC Cisco Systems, Inc....

Stap 4. Selecteer het tabblad Licentie en kies de virtuele doelaccount.



# Smart Software Licensing

Virtual Account: **TAC Cisco Systems, Inc....** ▼

🔍 On-Prem Virtual Account (cats-satellite)

General Licenses Product Instances Event Log

### Transfer Licenses Between Virtual Accounts

Transfer To Virtual Account: **Select Virtual Account** ▼

License Balance

By Name By Tag

- 6 node cluster
- AMM-ARCH-ONPREM
- Bangalore DNAC TAC**
- deleted3
- RTP-CX2
- sdwan-lab
- sindhrao
- Yazan Bikawi

Transfer Show Preview Cancel

Stap 5. Selecteer de licentie die u wilt overdragen en klik op Acties en selecteer Overdracht.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity

Virtual Account: **TAC Cisco Systems, Inc....** ▼

🔍 On-Prem Virtual Account (cats-satellite)

General Licenses Product Instances Event Log

Available Actions Manage License Tags Show License Transactions Search by License

License	Billing	Available to Use	In Use	Substitution	Balance	Alerts	Actions
🔍 Cisco Network Advantage	Prepaid	0	1	-	-1	🔴 Insufficient Licenses	Actions
🔍 Cisco - Base	Prepaid	10	0	-	+10		Actions

Transfer

Stap 6. Kies het aantal licenties dat u wilt overdragen en klik op Overdragen.

General Licenses Product Instances Event Log

### Transfer Licenses Between Virtual Accounts

Transfer To Virtual Account: **Bangalore DRAC TAC**

License	Billing	Purchased	In Use	Balance	Transfer
CML - Base	Prepaid	10	0	10	1

Source: Manual Entry  
Subscription ID: NA

SKU: CML-ENT-BASE  
Family: Learning at Cisco Software Products  
Start Date: 2023-Jul-03  
Expires: 2024-Jul-03

Transfer Show Preview Cancel

## Scenario 4: Licentiemigratie tussen slimme accounts

De migratie van licenties tussen verschillende slimme accounts kan worden uitgevoerd door het Cisco-licentieteam. Raadpleeg deze volgende stappen om de case bij het betreffende team aan de orde te stellen.

Stap 1. Log in op <https://mycase.cloudapps.cisco.com/case?swl> met Cisco-referenties.

Stap 2. Klik op Open New Case en selecteer Software Licensing > Expand License Management > Selecteer Move Licences. Selecteer vervolgens Licenties opnieuw toewijzen tussen SA en klik op Case openen.

## Support Case Manager

Create and manage Support cases for Akirshan Mehra (akimishr@cisco.com)

Open New Case

- Products & Services
- Wireless
- Software Licensing
- Partnership / CUMM
- Trial Offer Support

### Open a New Case for Software Licensing Support

Search Categories

- Smart Account Administration
- License Delivery
- License Management**
  - Move Licenses
  - Obtain temporary/demo/extend licenses
  - View Enterprise Agreement licenses in cloud dashboard
  - Generate License
  - Upgrade licenses through version upgrade
  - View More Categories
- Device Management

### Select a sub-category

- Reassign licenses between SA, including HA**
- Move licenses between devices in License Registration Portal due to device failure/RMA
- Move licenses between devices in License Registration Portal

Open Case

Stap 3. Selecteer het betreffende product (bijvoorbeeld draadloos, switching, enzovoort), vul het

formulier in en dien het verzoek in.

The screenshot shows the 'Support Case Manager' interface. At the top, it says 'Support Case Manager' and 'Create and manage Support cases for Cisco/Avaya/Mobira (adminstrn@csccs.com)'. Below this, there's a breadcrumb trail: 'Home > Open New CASE > Software Licensing'. On the right, there's a 'Need help with your case?' section with a 'Chat Now' button. The main form has several sections:

- Category:** 'Reassign licenses between SA, including FSA' with a 'change' link.
- Product:** A dropdown menu with 'Select a Product' highlighted.
- Title:** A text input field.
- Problem Description:** A text area with a placeholder 'Describe the issue you are experiencing...'. Below it, there's a note: 'This category is for LICENSING related requests ONLY. For technical issues, please click 'change' above and open a case by using the 'Products & Services' category. Otherwise please provide the details of your LICENSING request below and include the necessary information (Sales/Res Order, PAK, License Details (SKU/STK/MLC), etc.) and Smart Account/Virtual Account (SA/VA)'.
- Smart Account Domain ID:** A text input field.












At the bottom left, there's a note: 'Note: Files can be uploaded after case is created.'

## Scenario 5: wijziging van de SSM-verbindingsmodus

Stap 1. Meld u aan bij Cisco Catalyst Center via admin-referenties of aangepaste rol met super-admin-rechten.

Stap 2. Navigeer naar Hamburger en selecteer Systeem > Instellingen.

## Cisco DNA Center

-  Design >
-  Policy >
-  Provision >
-  Assurance >
-  Workflows
-  Tools >
-  Platform >
-  Activities
-  Reports
-  System >
-  Explore

System 360

**Settings**

**Settings**  
Data Platform

System Health

Users & Roles

Backup & Restore

Software Management

Disaster Recovery

Stap 3. Selecteer de SSM-verbindingmodus en kies de gewenste optie (Direct/Smart Proxy/On-Prem). Klik op Save (Opslaan).

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 CSRM  Smart proxy

[Save](#)

## Scenario 6: integratie van slimme account met Cisco Catalyst Center

Stap 1. Meld u aan bij Cisco Catalyst Center via beheerdersreferenties of via een aangepaste rol met super-admin-rechten.

Stap 2. Navigeer naar Hamburger en selecteer Systeem > Instellingen.

## Cisco DNA Center

 Design >

 Policy >

 Provision >

 Assurance >

 Workflows

 Tools >

 Platform >

 Activities

 Reports

 System >

 Explore

System 360

**Settings**

 Data Platform

System Health

Users & Roles

Backup & Restore

Software Management

Disaster Recovery

Stap 3. Klik onder Smart Account op Add.

Class DNA Center System / Settings

Search Settings

- Class Accounts
- WiFi Control
- Classroom Credentials
- Smart Account
- Smart Learning
- WiFi Connection Mode
- Device Settings
- Device Connectivity
- Network Monitor Interface
- Smart
- Smart Plug
- Usage Distribution System
- Device OSA Acceptance
- WiFi Device Authentication

### Smart Account

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

Class Smart Account credentials are used for connecting to your Smart Learning product. The License Manager tool will use the device and license information from the Smart Account for activation and license management.

Selected Smart Account user: **admin@dc**

Selected Smart Account name: **Class Systems, Ltd** [Change](#)

[Auto-register smart license enabled devices](#)

[View all smart accounts](#)

Smart Account Credentials (2) [Add](#) [Delete historical information](#)

Stap 4. Voer de gebruikersnaam en het wachtwoord voor Smart Account in en klik op Opslaan.

## Add Smart Account Credentials



Username

akimishr



Info

Password

\*\*\*\*\*

Show

Cancel

Save

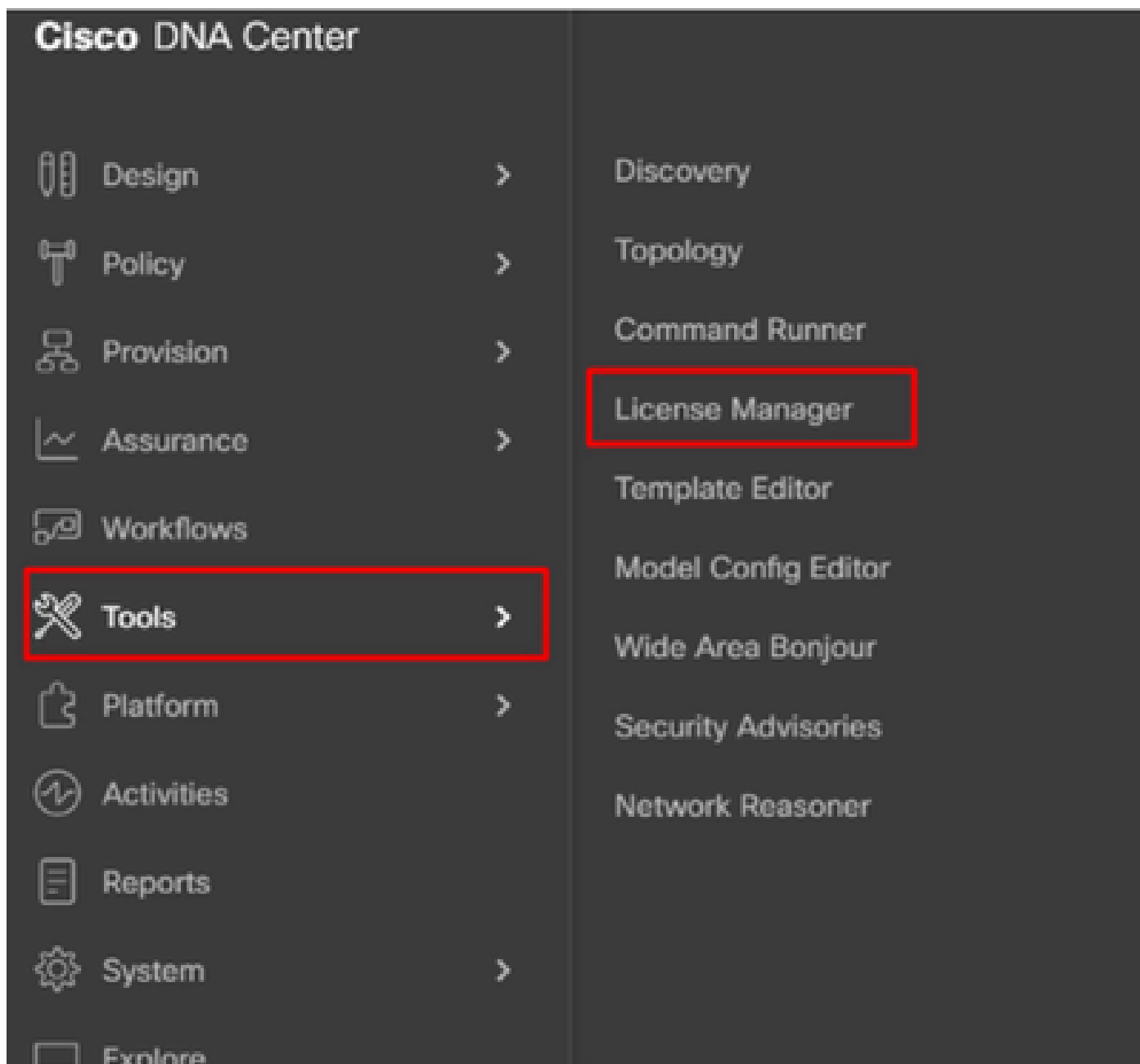


: als je meerdere slimme accounts hebt, kies dan één account als standaard. De Licentiebeheer gebruikt de standaardaccount voor visualiserings- en licentiebewerkingen.

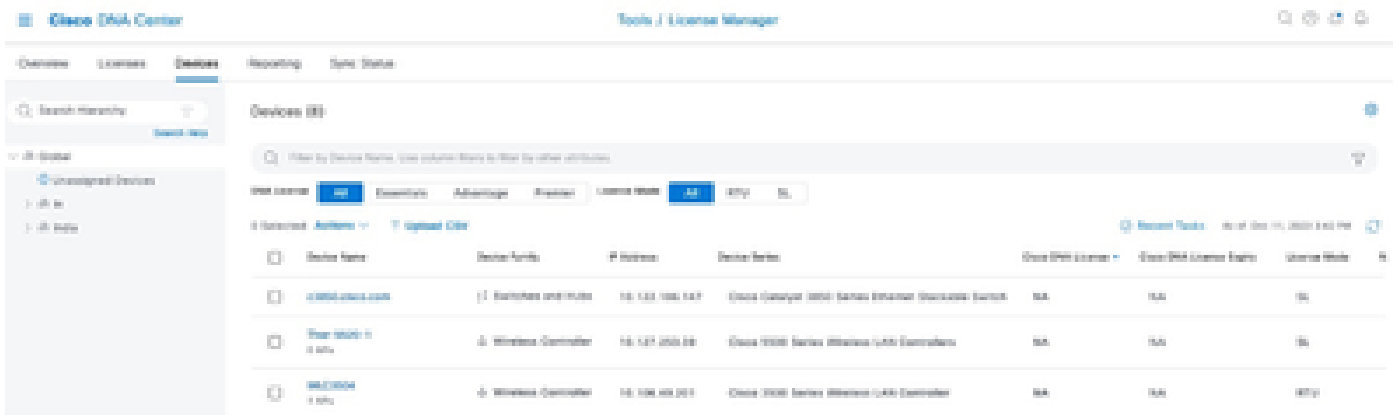
## Scenario 7: wijziging van het licentieniveau

Stap 1. Meld u aan bij Cisco Catalyst Center via beheerdersreferenties of via een aangepaste rol met super-admin-rechten.

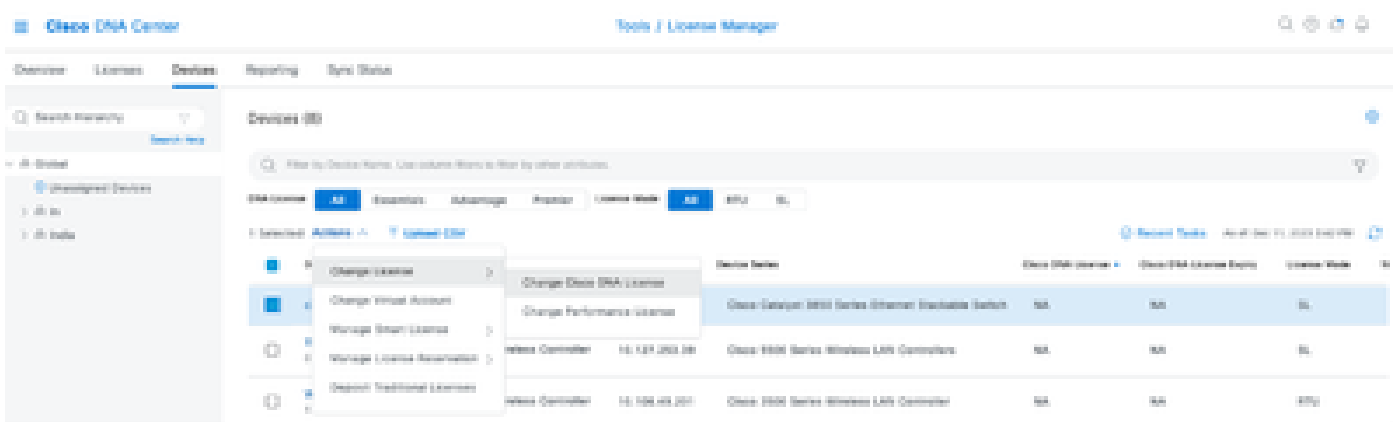
Stap 2. Ga naar Hamburger en selecteer Gereedschappen > Licentiebeheer.



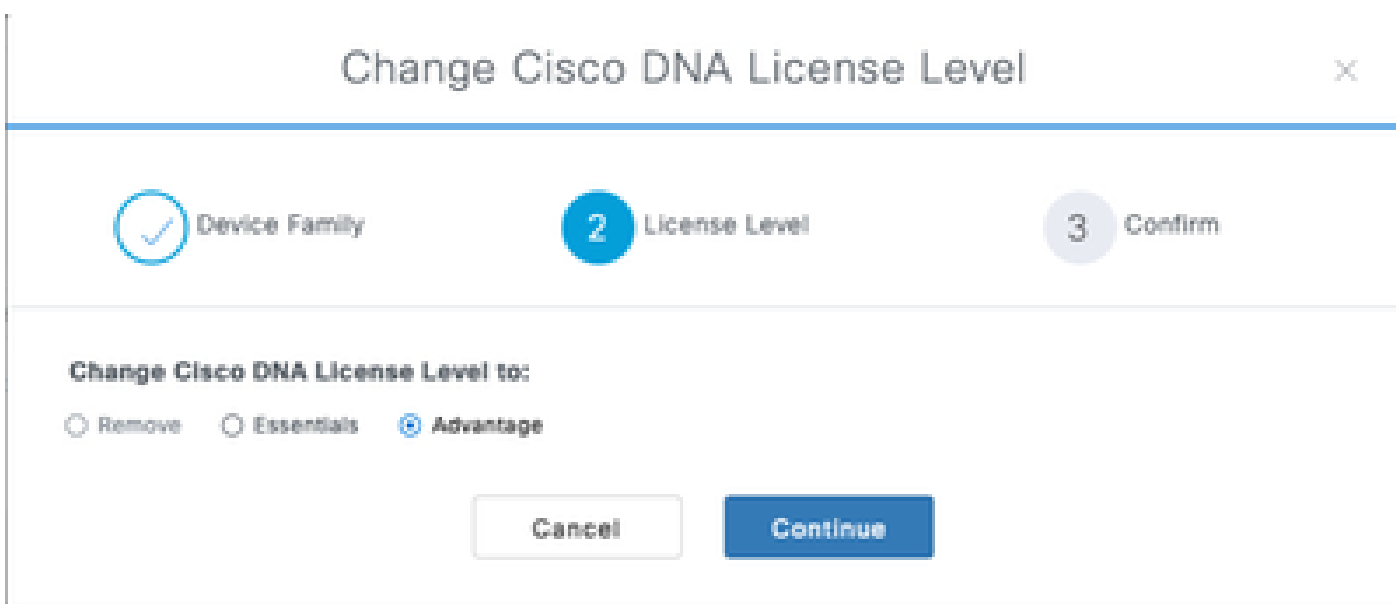
Stap 3. Selecteer het tabblad Apparaten en gebruik Zoeken of door de tabel bladeren om de apparaten te vinden waarvan u het licentieniveau wilt wijzigen.



Stap 4. Schakel het aanvinkvakje in naast elk apparaat waarvan u het licentieniveau wilt wijzigen en kies vervolgens Acties > Cisco DNA-licentie wijzigen.



Stap 5. Klik op het licentieniveau voor de apparaten Essentials of Advantage. Klik vervolgens op Doorgaan.



Stap 6. Cisco Catalyst Center vraagt of de wijziging onmiddellijk of later moet worden toegepast. Kies de gewenste optie en klik op Bevestigen.

# Change Cisco DNA License Level



Device Family



License Level



Confirm

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

Note: Network license may be upgraded to Advantage 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



Opmerking: U moet ook de optie Reboot apparaat op update kiezen voor wijzigingen om van kracht te worden. Ook moet deze activiteit in downtime worden uitgevoerd.

---

## Gerelateerde informatie

- [Cisco Technical Support en downloads](#)

## Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document ([link](#)) te raadplegen.