Cisco Catalyst 9000 Lizenz-Upgrade - Offline-Methode

Inhalt

Einleitung Cisco Catalyst 9000 Lizenz-Upgrade - Offline-Methode

Einleitung

In diesem Dokument werden die erforderlichen Schritte zum Upgrade von der Evaluierungslizenz auf die DNA-Abonnementlizenz (Essentials/Advantage/Premier) beschrieben.

Cisco Catalyst 9000 Lizenz-Upgrade - Offline-Methode

Sobald ein neuer Switch online geht, startet er mit der Evaluation Network-Lizenz, die 90 Tage lang gültig ist. Während dieses Zeitraums muss der Switch mit dem Cisco Smart Software Manager (CSSM) kommunizieren. Da der CSSM-Server in der Cisco Cloud basiert, ist eine Internetverbindung erforderlich, damit der Switch die Cisco Cloud erreicht.

Dies ist jedoch in Netzwerken einiger Kunden, wie dem Finanz- und Bankensektor, oder in sicheren Umgebungen einiger Kunden, die keinen Zugang zum Internet haben (AirGap-Umgebung), nicht zulässig.

In solchen Fällen müssen Kunden und Partner auf Offline-Methoden zur Installation der DNA-Lizenz vertrauen.

Dieses Dokument stützt sich auf DNA Center, das als Lizenzmanager fungiert. Es ist wichtig, dass DNA Center mit dem Internet verbunden ist, damit es Informationen über ALLE Lizenzen sammeln kann, die der Kunde über seinen SMART ACCOUNT/VIRTUAL ACCOUNT erworben hat. Sobald DNA Center über diese Informationen verfügt, können sie offline geschaltet werden, und der Rest der Schritte kann ohne die Verbindung von DNA Center und Switches mit dem Internet erfolgen.

1. DNA Center wurde mit dem Internet verbunden und kommunizierte mit dem CSSM-Server, um Informationen über die Lizenzen des Kunden zu sammeln. Der Kunde verfügt über 53 Lizenzen (48 Essential- und 5 Advantage-Lizenzen).



A You have license(s) expiring on 1 device(s) in next 90 days View

Navigieren Sie in der App "License Management" des DNA Center zu Alle Lizenzen. Sie erhalten eine Zusammenfassung aller von DNA Center verwalteten Geräte und deren Lizenzstatus. Die Felder **Registrierungsstatus** und **Autorisierungsstatus** zeigen den Status der DNA-Lizenz an, unabhängig davon, ob das Gerät im Eval-Modus oder im DNA-Abonnementmodus ausgeführt wird. Sie müssen den im Bild gezeigten **Registered-SLR**- und **Authorized**-Status der Geräte sehen.

Ciso	Cisco DNA Center License Management							<	Q	==	¢		
Y Filte	7 Filter Actions 🖂 🖄 Upload CSV										ΞO	Find	
	Device Name	Device Family	IP Address	Device Series	DNA License 🔺	DNA License Expiry	License Mode	Network License	Registration status	Authoriz status	ation	Res Sta	ervation tus
	Switch	Switches and Hubs	10.1.100.10	Cisco Catalyst 9200 Series Switches	Essentials	Mar 22, 2021 🛆 55 Days	SL	Essentials	Unregistered	Evaluatio Mode	n	Req cod gen	juest le ierated
	Switch	Switches and Hubs	10.1.100.11	Cisco Catalyst 9200 Series Switches	Essentials	NA	SL	Essentials	Registered - SLR	Authorize Reserved	id - I	Inst	alled

2. Damit der Switch vom DNA Center verwaltet werden kann, muss der Switch in der Inventarliste des DNA Centers aufgeführt sein. Ist er nicht bereits vorhanden, so kann dies bis 1 erreicht werden. Plug-and-Play-Prozess, der über DHCP durchgeführt wird. Oder 2. Konfigurieren Sie den Switch manuell mit einer IP-Adresse, aktivieren Sie ein Kennwort und einen lokalen Benutzernamen bzw. ein lokales Kennwort. Das DNA Center verwendet diese Informationen beim Erkennungsprozess, um den neu konfigurierten Switch zu lokalisieren.

3. Sobald der Schalter im DNA-Center-Inventar erscheint. Navigieren Sie zu License Manager > All Licenses (Lizenzverwaltung > Alle Lizenzen). Wählen Sie den Switch oder die Geräte aus, denen Sie die DNA-Lizenz hinzufügen müssen, wie im Bild gezeigt.

Y Filte	r Ac	tions 🗸 🕑 Uplo	ad CSV		Selected						Ξu	Pino		
	Dev Nan	Change DNA Lice Change Virtual Ac	nse count		Jevice Series	DNA License	DNA License Expiry	License Mode	Network License	Virtual Account	Site	Registration status	>	1 Expand
	Swill	Manage Smart Lic Manage License F	ense leservation	2	Disco Datalyst 9200 Series Switches	Essentials	Mar 21, 2021 A 89 Days	SL	Essentials	NA.	Unassigned	Unregistered		
	Switch	Deposit Traditiona ormulates and Habs	10.1.100.11		Disco Catalyst 9200 Series Switches	Essentials	Mar 22, 2021 🕂 th Days	SL.	Essentials	NA.	Unassigned	Reservation in Progress		

4. Navigieren Sie anschließend zu **Aktionen**, wählen Sie **Lizenzreservierung verwalten** und dann **Lizenzreservierung aktivieren** aus. Wählen Sie **Spezifische Lizenzreservierung**, klicken Sie auf **Weiter**, um den Anforderungscode wie im Bild dargestellt zu generieren.

Filte	A	tions 🗸 🕒 Upload CSV		Selected						ΞQ	Pina	
	Dev Nan	Change DNA License Change Virtual Account		Jevice Series	DNA License	DNA License Expiry	License Mode	Network License	Virtual Account	Site	Registration status	1 Famano
	Swit	Manage Smart License Manage License Reservation	2	Disco Datalyst 7200 Series Switches	Essentials	Mar 21; 2021 A 88 Days	SL	Essentials	NA.	Unassigned	Unregistered	- Copura
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Ciso	CO DN	A Center License Management	△▲	٩	ш	۰ (
		Enable License Reservation				×
T Filt	er De	Reservation Type 2 Request Code 3 Virtual Account 4 Authorization Code		5	Apply	
	Sv	Select License Reservation Type Specific License Reservation (SLR) Permanent License Reservation (PLR)				
	Sw	Note: Clicking on continue will fetch Request Code for the selected devices. Cancel Continue				
	Switc	Uisco Switches 10.1.100.12 Gatalyst Essentials NA SL Essentials NA and Hubs 10.1.100.12 9200 Series Switches	Unasa	igned	Regi	stered -

5. In diesem Stadium meldet sich das DNA-Center beim Switch an und generiert einen Anforderungscode vom Switch. Wenn der Anforderungscode generiert wurde, klicken Sie auf **CSV-Datei exportieren**.

6. Melden Sie sich mit Cisco Smart Software Manager (CSSM) an. Sie sehen alle DNS-Lizenzen, die der Kunde erworben hat. Dieses Bild zeigt ein Beispiel für den Smart Account eines Kunden, wie im Bild gezeigt.

Virtual Account: DEFAULT -

Genera	al Licenses Prod	duct Instances	Event Log					
Ava	ailable Actions 👻	Manage License	Tags	inse Reservation	₽		Sea	rch b
	License		Billing	Purchased	In Use	Substitution	Balance A	Jerts
	Aironet DNA Advantage Term Li	censes	Prepaid	3	0	-	+ 3	
	AP Perpetual Networkstack Adv	rantage	Prepaid	3	0	-	+ 3	
	C9200 DNA Essentials, 24-port	Term licenses	Prepaid	85	1 (1 Reserved)		* 84	
	C9200 Network Essentials, 24-p	ort license	Prepaid	85	1 (1 Reserved)		+ 84	
	C9200L DNA Essentials, 24-por	t Term license	Prepaid	2	0	-	+ 2	
	C9200L DNA Essentials, 48-por	t Term license	Prepaid	2	0		+ 2	
	C9200L Network Essentials, 24-	-port license	Prepaid	2	0	-	+ 2	
	C9200L Network Essentials, 48-	-port license	Prepaid	2	0	-	+ 2	
	C9300 48P DNA Advantage		Prepaid	5	0	-	+ 5	
	C9300 48P Network Advantage		Prepaid	5	0	-	+ 5	

7. Mit der Verwendung der zuvor generierten **CSV-Datei** von DNA Center, generieren Sie einen Autorisierungscode aus dem CSSM. Dieser Autorisierungscode ermöglicht die Verwendung einer permanenten DNA-Lizenz auf einem Gerät ohne Internetzugang.

General Licenses Product Instances	Event Log				
Available Actions 👻 Manage License	a Tags	nse Reservation	<u>C</u>		Search b
License	Billing	Purchased	In Use	Substitution	Balance Alerts
Alronet DNA Advantage Term Licenses	Prepaid	3	0		+ 3
AP Perpetual Networkstack Advantage	Prepaid	3	0		+ 3
C9200 DNA Essentials, 24-port Term licenses	Prepaid	85	1 (1 Reserved)		* 84
C9200 Network Essentials, 24-port license	Prepaid	85	1 (1 Reserved)	-	+ 84
C9200L DNA Essentials, 24-port Term license	Prepaid	2	0		+ 2
C9200L DNA Essentials, 48-port Term license	Prepaid	2	0		* 2
C9200L Network Essentials, 24-port license	Prepaid	2	0		+ 2
C9200L Network Essentials, 48-port license	Prepaid	2	0		+ 2
C9300 48P DNA Advantage	Prepaid	5	0		+ 5
C9300 48P Network Advantage	Prepaid	5	0	-	+ 5

Virtual Account: DEFAULT -

STEP 1	STEP 2	STEP 3	STEP 2	4				
Enter Request Code	Select Licenses	Review and confirm	Authorizat	ion Code				
You can reserve licenses for produ You will begin by generating a Res To learn how to generate this code Once you have generated the cod	uct instances that cannot connect to th ervation Request Code from the prod b, see the configuration guide for the p e:	e Internet for security reasons. uct instance. roduct being licensed.						^
1) Enter the Reservation Requ	est Code below							
2) Select the licenses to be res	served							
3) Generate a Reservation Aut	horization Code							- R
Enter the Reservation Author	orization Code on the product instance	to activate the features						- F
 Reservation Request Code: 								
CB-ZC9200-24T	22							
		Br	owse Upload					
To learn how to enter this code, s	ee the configuration guide for the prod	luct being licensed						~
							_	_
							Cancel	Next
STEP 1 🗸	STEP 2	STEP 3	STEP /					
Enter Request Code	Select Licenses	Review and confirm	Authorizatio	n Code				
Product instance Details	,							^
Product Type:	C9200							
UDI PID:	C9200-24T							
UDI Cadal Number								
obi senai Number:	A CONTRACT OF							
Licenses to Reserve								
In order to continue, ensure that yo	ou have a surplus of the licenses you w	vant to reserve in the Virtual Acco	unt.					
Reserve a specific license								
License		Expir	es	Purchased	Available	Reserve		
Level 2 Supports substitution								
C9200 Network Essentials, 2	M-port license	-nev	er-	85	83	1		
CIRCO MENOX Essentars, 24-port I	Nerse					_		
C9200 DNA Essentials, 24-port Terr	ort Term licenses 1 Joenses	mult	pie terms	85	84	1		
								~
							Cancel	Next

STEP 1 ~	STEP 2 ✓ Select Licenses	STEP 3 Review and confirm	STEP 4. Authorization Code	
Product Instance Details				
Product Type:	C9200			
UDI PID:	C9200-24T			
UDI Serial Number:				
Licenses to Reserve				
License			Expires	Quantity to Reserve
Level 2				
C9200 Network Essentials, 24- C9200 Network Essentials, 24-port lice	port license		-never-	1
C9200 DNA Essentials, 24-por	t Term licenses			1
C9200 DNA Essentiaris, 24-port Term Ix	censes			
				Cancel Back Generate Authorization Code

Nachdem die Autorisierungscodes generiert wurden, können Sie sie entweder als **Datei** herunterladen oder **in die Zwischenablage kopieren**.

STEP	STEP 2	STEP 3	STEP 1	
Enter Request Code	Select Licenses	Review and confirm	Authorization Code	
The Reservation Authorizativ Enter this code into the Sma	on Code below has been generated in Licensing settings for the product	for this product instance. t, to enable the licensed features.		
Product Instance Details				
Product Type:	C8200			
UDI PID:	C8200-24T			
UDI Serial Number:				
Authorization Code:				
<specificplr><authorizationcod <entitlement><tag>regid_2018_05 <dicensetype>PERPETUALlicense<tagdescription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription></subscription><subscription></subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscription><subscri< td=""><td>e>-flag>A<flag> com.cisco. 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9. Klicken Sie auf **Download Template (Vorlage herunterladen**) und laden Sie die Vorlage für die Lizenzreservierung herunter, wie im Bild gezeigt.



Aktualisieren Sie die Informationen für die Felder DeviceName, Seriennummer, RequestCode (aus Schritt 5.) und Autorisierungscode, die zuvor kopiert wurden (Schritt 8.), wie im Bild dargestellt.

1	А	В	с	D	E	F	G	н	1
1	IPAddress	DeviceName	SerialNumber	RequestCode	Authoriza	tionCode			
2	10.1.	DNASW001.	ABCDEF12345	CB-ZC9200-24T:LhGz	MEUCIQD	NMGgBh3	0N2tamddi	Ht3GtFKKql	P30rPWDZ2
3									

10. Wenn die CSV-Datei fertig ist, klicken Sie auf **CSV hochladen**, um den Autorisierungscode auf das Gerät hochzuladen. Dadurch wird die SLR-Lizenz auf dem Gerät installiert, und die Lizenz ist die jeweilige DNA-Lizenz, die wie im Bild gezeigt auf dem Gerät ausgeführt werden darf.

	Upload License	Reservation File	\times
Sel	ect CSV file	🛓 Download Template	~
1	🗋 licenseReservati	ionTemplate.csv 💼	
0	Click continue button to import the CS	V file from your client machine.	~
1	Cancel	Continue	

Upload License Reservation File

 \times

License Reservation will be applied on 1 devices.

Device Name	IP Address/DNS Name	Serial Number	Request Code		Authorization Code
Switch	10.1.100.11		CB-ZC9200-24T: A4T2LhGzf-22		Available
				1	
		Showing	1 of 1		
		Cancel	Confirm		



Der Registrierungsstatus sollte in "Registriert" (SLR) geändert werden.

Cisco DNA Center				License Management						4	•	Q,		٥	0	
								Last updated:	1:09 pm	C Refres	h	Ô Đ	xport	0 R	ecent	
Y Filter Actions ✓ 🖄 Upload CSV												ΞC) Find			
	Device Name	Device Family	IP Address	Device Series	DNA License	DNA License Expiry	License Mode	Network License	Virtual Accourt	nt Si	te		Re	Registration status		
	Switch	Switches and Hubs	10.1.100.10	Cisco Catalyst 9200 Series Switches	Essentials	Mar 21, 2021 🛆 88 Days	SL.	Essentials	NA	U	nassij	gned	Un	Unregistered		
	Switch	Switches and Hubs	10.1.100.11	Cisco Catalyst 9200 Series Switches	Essentials	NA	SL	Essentials	NA	U	Unassigned			Registered - SLR		
	Switch	Switches and Hubs	10.1.100.12	Cisco Catalyst 9200 Series Switches	Essentials	NA	SL	Essentials	NA	U	nassi	gned	Re SU	pistered R		

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