

Smart Licensing Command Reference

This chapter describes the commands to configure smart licensing.

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license smart deregister

To cancel the registration of your device, use the license smart deregister command.

	license smart deregister			
Syntax Description	This command has no keywords or arguments.			
Command Default	None			
Command Modes	None			
Command History	Release	Modification		
	Release 6.1.32	This command was introduced.		

Usage Guidelines When your device is taken off the inventory, shipped elsewhere for redeployment or returned to Cisco for replacement using the return merchandise authorization (RMA) process, you can use this command to cancel the registration on your device. All smart licensing entitlements and certificates on the platform are removed.

The following example deregisters the NCS 4000 router :

RP/0/RP0:hostname# license smart deregister

Smart Licensing Command Reference

license smart register

To register the device instance with the Cisco licensing cloud, use the **license smart register idtoken** *token-id* **force** command.

license smart register idtoken token-id force

Syntax Description	token_id Specifies the token generated in smart manager.				
	force If the registration fails due to communication failure between the device and the porta CTC waits for 24 hours before attempting to register the device again. Use this option registration.				
Command Default	None				
Command Modes	None				
Command History	Release	Modification			
	Release 6.1.32	This command was introduced.			
Usage Guidelines	Use this con	mmand to register the device instanc	e with the Cisco licensing cloud.		
	The followi router :	ng example registers and sets the tol	ten ID required for registration of the NCS 4000		
	RP/0/RP0:	hostname# license smart regist	er token-id		

license smart renew

	To manually renew the ID certification or authorization, use the license smart renew command. license smart renew id { ID auth] }			
Syntax Description	ID ID certificates are renewed automatically after six months. In case, the renewal fails, the product instance goes into unidentified state. You can manually renew the ID certificate using this option.			
	is in a comm	n 'Authorized' or 'Out-of-complianc aand to make an on-demand manual e next registration renewal cycle, yo	Smart Licensing system every 30 days. As long as the license e' (OOC), the authorization period is renewed. Use this update of your registration. Thus, instead of waiting 30 days u can use this option to instantly find out the status of your	
	EXPI		pires and the status of the associated licenses display "AUTH athorization period renewal. If the retry is successful, a new	
Command Default	None			
Command Modes	None			
Command History	Release	Modification		
	Release 6.1.32	This command was introduced.		
Usage Guidelines	None			
		ng example manually renews the ID hostname# license smart renew	certificate for the NCS 4000 router :	
		ng example manually renews the au	thorization for the NCS 4000 router :	

show alarms

To display alarms related to the system, use the show alarms command.

	show alarm	s brief system ac	tive force		
Syntax Description	brief Disp	plays alarms in br	ief.	_	
	system Disp	plays system scope	e alarms related data		
	active Disp	plays active alarm	S.	_	
Command Default	None				
Command Modes	None				
Command History	Release	Modification			
	Release 6.1.32	This command	l was introduced.		
Usage Guidelines	IDs. If the us for assistance The followin RP/0/RP0:H Fri Jun	er group assignme e. ng example displa nostname# show 0 14:21:20.143	ent is preventing yo ys the output of the alarms brief syst UTC	associated with a task group that u from using a command, contact show alarms brief system active cem active	your AAA administrator
	Active Ala	rms			
			Group		Description
	0 redundancy	Major		06/01/2017 17:58:15 UTC	
	0/RP0 Down	Minor	Fabric	06/01/2017 18:00:13 UTC	Fabric Plane-3 is
	0 Redundancy	Major Lost	Shelf	06/01/2017 18:00:32 UTC	Fabric Card
	0/RP0 Need Upgrad	Major de Or Not In Cu	FPD_Infra rrent State	06/06/2017 09:18:38 UTC	One Or More FPDs
	0/RP1 Need Upgrad	Major de Or Not In Cu	FPD_Infra rrent State	06/06/2017 09:18:38 UTC	One Or More FPDs

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0/9 Need Upgrade Or	Major Not In Curre		06/06/2017	09:25:23	UTC	One Or More FPDs
		Controller ched With Pre-Pro			UTC	Optics0/9/0/0 -
0/9 Improper Remova	Minor 1	Controller	06/06/2017	09:25:33	UTC	Optics0/9/0/1 -
0/9 Improper Remova		Controller	06/06/2017	09:25:34	UTC	Optics0/9/0/11 -
0/RP0 Entitlements Ar 0/RP0 Failure With Ci	e Out Of Comp NotReported	liance Software	06/09/2017 06/09/2017			One Or More Communications

show license all

To view the entitlements in use, use the show license all command.

	show license all				
Syntax Description	This command has no keywords or arguments.				
Command Default	None				
Command Modes	None				
Command History	Release Modification				
	ReleaseThis command was introduced.6.1.32				
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.				
	The following example displays all entitlements in use. It can also be used to check if Smart Licensing is enabled. Additionally, it shows associated licensing certificates, compliance status, UDI, and other details for the NCS 4000 router:				
	RP/0/RP0:hostname# show license all Wed Jun 7 11:18:35.953 UTC				
	Smart Licensing Status				
	Smart Licensing is ENABLED				
	Registration: Status: REGISTERED Smart Account: NCS4K Virtual Account: Default Initial Registration: SUCCEEDED on Fri Jun 02 2017 14:27:19 UTC Last Renewal Attempt: SUCCEEDED on Fri Jun 02 2017 14:56:40 UTC Failure reason: Next Renewal Attempt: Wed Nov 29 2017 14:56:41 UTC Registration Expires: Sat Jun 02 2018 09:29:55 UTC				
	License Authorization: Status: AUTHORIZED on Tue Jun 06 2017 09:53:03 UTC Last Communication Attempt: FAILED on Tue Jun 06 2017 09:53:03 UTC Failure reason: Fail to send out Call Home HTTP message Next Communication Attempt: Thu Jul 06 2017 04:16:31 UTC Communication Deadline: Mon Sep 04 2017 04:16:31 UTC				
	License Usage				
	NCS 4000 400G Packet/OTN/WDM - QSFP28/CFP2 - Lic. 100G OTN (NCS4K-4H-OPW-LO): Description: NCS 4000 400G Packet/OTN/WDM - QSFP28/CFP2 - Lic. 100G OTN				

```
Count: 1
 Version: 1.0
 Status: PENDING
NCS4K 100G Bandwidth Licenses (S-NCS4K-100G-LIC):
 Description: NCS4K 100G Bandwidth Licenses
 Count: 2
 Version: 1.0
 Status: PENDING
 SW License for WDM CFP2 Pluggable port (S-CFP2-WDM-LIC):
 Description: SW License for WDM CFP2 Pluggable port
 Count: 1
 Version: 1.0
 Status: PENDING
Product Information
_____
UDI: SN:SAL1834Z18D,UUID:default-sdr
HA UDI List:
   Active:SN:SAL1834Z18D,UUID:default-sdr
   Standby:SN:SAL1834Z18D,UUID:default-sdr
Agent Version
_____
Smart Agent for Licensing: 2.2.0_rel/30
```

show license status

To display the registration details, status of license, and authorization details of license, use the **show license status** command.

show license status

Syntax Description	This command has no keywords or arguments.		
Command Default	None		
Command Modes	None		
Command History	mand History Release Modification		
	Release 6.1.32	This command was introduced.	

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The following example displays the output of the show license status command:

```
RP/0/RP0:hostname# show license status
Wed Jun 7 05:42:22.392 UTC
Smart Licensing is ENABLED
Initial Registration: SUCCEEDED on Wed Jun 07 2017 12:06:50 UTC
Last Renewal Attempt: None
Next Renewal Attempt: Mon Dec 04 2017 12:07:10 UTC
Registration Expires: Thu Jun 07 2018 06:40:34 UTC
License Authorization:
Status: AUTHORIZED on Wed Jun 07 2017 12:07:50 UTC
Last Communication Attempt: SUCCEEDED on Wed Jun 07 2017 12:07:50 UTC
Next Communication Attempt: Fri Jul 07 2017 12:07:49 UTC
Communication Deadline: Tue Sep 05 2017 06:41:16 UTC
```

show license summary

To display the license summary, use the show license summary command.

	show licens	se summary	
Syntax Description	This comm	and has no keywords or arguments.	
Command Default	None		
Command Modes	None		
Command History	Release	Modification	
	Release 6.1.32	This command was introduced.	
Usage Guidelines		command, you must be in a user group associated with a task gr user group assignment is preventing you from using a command ce.	
	RP/0/RP0: Fri Jun	ng example displays the output of the show license summary c hostname# show license summary 9 15:53:53.301 UTC ensing is ENABLED	ommand:
	Smart Ac Virtual Last Ren Next Ren License Au	REGISTERED ccount: NCS4K Account: NCS4K-VIRTUAL-AC newal Attempt: None newal Attempt: Wed Dec 06 2017 15:51:48 UTC uthorization:	
	Last Com	OUT OF COMPLIANCE on Fri Jun 09 2017 15:53:08 UTC munication Attempt: SUCCEEDED munication Attempt: Sat Jun 10 2017 03:53:08 UTC sage:	
	OUT OF C NCS4K 10	Entitlement tag Count Status 0 400G Packet/OTN/WDM - QSFP28/CFP2 - Lic. 100G OTN(N COMPLIANCE 00G Bandwidth Licenses(S-NCS4K-100G-LIC) 2 10se for WDM CFP2 Pluggable port(S-CFP2-WDM-LIC)	NCS4K-4H-OPW-LO) 1 OUT OF COMPLIANCE 1 OUT OF COMPLIANCE