

Smart Licensing Commands

This module describes the commands used to configure Smart Licensing.

For detailed information about Smart Licensing concepts, configuration tasks, and examples, see the *Cisco IOS XR Licensing* webpage.

- crypto ca http-proxy, on page 2
- license smart deregister, on page 3
- license smart factory reset, on page 4
- license smart flexible-consumption, on page 5
- license smart import, on page 6
- license smart proxy, on page 7
- license smart reservation, on page 8
- license smart register idtoken, on page 9
- license smart save, on page 10
- license smart sync, on page 12
- license smart transport, on page 13
- license smart url, on page 14
- license smart trust idtoken, on page 16
- process restart plat sl client, on page 17
- process restart smartlicserver, on page 18
- show license all, on page 19
- show license rum, on page 20
- show license udi (smart), on page 24
- show license platform detail, on page 25
- show license platform summary, on page 27
- show license platform trace, on page 28
- show license status, on page 30
- show license summary, on page 32
- show license usage, on page 34

crypto ca http-proxy

To enable communication with the certification authority to retrieve the Certificate Revocation List (CRL) use the **crypto ca http-proxy** command in the XR Config mode.

	crypto ca http-proxy server-IP-Address port number			
Syntax Description	http-prox	y server-IP-address	Specifies the host IP address.	
	port numb	er	http-proxy server port number. The range is from 1-65535.	
Command Default	No default.			
Command Modes	XR Config	mode		
Command History	Release	Modification		
	Release 7.0.2	This command was introduce	ed.	
Usage Guidelines		iser group assignment is preven	group associated with a task group that includes appropriate task ting you from using a command, contact your AAA administrator	
Task ID	Task ID	Operation		
	pkg-mgmt	Read, Write, Execute		
Examples	to retrieve t	he Certificate Revocation List (

license smart deregister

To cancel device registration from Cisco Smart Software Manager (CSSM), use the **license smart deregister** command in the XR EXEC mode.

license smart deregister

Syntax Description	This comman	This command has no keywords or arguments.		
Command Default	None			
Command Modes	XR EXEC mode			
Command History	Release	Modification		
	Release 7.11.1	This command was introduced.		
Usage Guidelines	To use this co	ser group assignment is preventing	using using Policy (SLP). up associated with a task group that includes appropriate task you from using a command, contact your AAA administrator	
Task ID	Task IDCpkg-mgmtF	Dperation Execute		
Examples		ng example shows output for the lic cense smart deregister	ense smart deregister command on Cisco IOS XR:	

license smart factory reset

To clear all licensing information from the trusted store and memory, except the evaluation period count down and the Specific License Reservation (SLR) sequence number, use the **license smart factory reset** command in XR EXEC mode.

license smart factory reset

Syntax Description	reset		Clears all saved smart licensing information.
Command Default	None		
Command Modes	XR EXEC m	ode	
Command History	Release	Modification	
	Release 24.1.1	This command was introduced.	
Usage Guidelines	license server	e smart agent functions properly, yo r after executing the license smart restart smartlicserver restart plat_sl_client	ou must execute the following commands to restart the smart factory reset command:
Task ID	Task ID 0	peration	
	pkg-mgmt e	xecute	
Examples	The following XR:	g example shows output for the lic	ense smart factory reset command on Cisco IOS
	Router# lic	ense smart factory reset	

license smart flexible-consumption

To enable Flexible Consumption Model (FCM), use the **license smart flexible-consumption** command in XR Config mode.

	license smart flexible-consumption
Syntax Description	This command has no keywords or arguments.
Command Default	None
Command Modes	XR Config mode
Command History	Release Modification
	ReleaseThis command was7.3.1introduced.
Usage Guidelines	No specific guidelines impact the use of this command.
Task ID	Task ID Operation
	pkg-mgmt read, write
Examples	The following example shows how to enable FCM licensing on routers running Cisco IOS XR: Router# configure Router(config)# license smart flexible-consumption enable Router(config)# commit
	The following example shows how to verify the FCM configuration:
	Router# show running-config license smart flexible-consumption enable Wed Sep 25 01:56:05.909 UTC license smart flexible-consumption enable

license smart import

To import Smart Licensing authorization codes, policies, trust codes and other licensing elements, use the **license smart import** command in XR EXEC mode.

license smart import *filepath_filename*

Syntax Description	filepath_filename		Specifies the complete path to a file, including the filename.
Command Default	None		
Command Modes	XR EXEC mode Release Modification		
Command History			
	Release 24.1.1	This command was introduced.	
Usage Guidelines	No specific	guidelines impact the use of this com	imand.
Task ID	Task ID	Operation	
	pkg-mgmt	execute	
Examples	The following example shows output for the license smart import command on Cisco I		-
	Kouter# li	cense smart import tftp://203.0	0.113.5/auto/titp-abc/test.txt

license smart proxy

To configure the smart licensing proxy settings, use the license smart proxy command in XR Config mode.

license smart proxy { **hostname** *ip address* | *hostname* | **port** *port-id* }

Syntax Description	hostname ip address hostname		hostname	Enter the IP Address or hostname of the proxy server.
	port port-r	number		Specifies the proxy port. Enter the proxy port number ranging from 0-65535.
Syntax Description	This comma	and has no	keywords or arguments.	
Command Default	None			
Command Modes	XR Config mode			
Command History	Release	Modif	ication	
	Release 24.1.1	This c	ommand was introduced.	
Usage Guidelines		along with	h the final destination URL (When a proxy is configured, licensing messages are sent CSSM). The proxy sends the message on to CSSM. Provide
Task ID	Task ID	Operation		
	pkg-mgmt	read, write		
Examples	The followi	ng examp	le shows output for the licen	se smart proxy command on Cisco IOS XR:
	Router# cc Router(con	-	cense smart proxy hostna	ame address

license smart reservation

To enable or disable the license reservation, use the license smart reservation command in XR Config mode.

	license smart reservation		
Syntax Description	This command has no keywords or arguments.		
Command Default	None		
Command Modes	XR Config mode		
Command History	Release Modification		
	ReleaseThis command was introduced.7.3.2		
Usage Guidelines	No specific guidelines impact the use of this command.		
Task ID	Task ID Operation		
	pkg-mgmt read, write		
Examples	The following example shows output for the license smart reservation command on Cisco IOS XR:		
	Router# configure Router(config)# license smart reservation		
	The following example shows output for the no license smart reservation command on Cisco IOS XR:		
	Router# configure Router(config)# no license smart reservation		

license smart register idtoken

To register a device with the token generated from Cisco Smart Software Manager (CSSM), use the **license** smart register idtoken command in XR EXEC mode.

license smart register idtoken token_ID { force }

Syntax Description	token_ID		Device with the token generated from CSSM.		
	force		(Optional) Forcefully registers your device irrespective of whether the device is registered or not.		
Command Default	None				
Command Modes	XR EXEC r	node			
Command History	Release	Modification			
	Release 7.11.1	This command was introduced.			
Usage Guidelines	This command is not applicable to Smart Licensing using Policy (SLP).				
	Use the existing token in place of token_ID attribute.				
	If you do not have a token, then generate a new token from the CSSM portal.				
	For information on how to generate a new token, see Generate Product Registration Token from the Portal topic in the latest release of System Management Configuration Guide for respective platform in Cisco.com				
	Use this command to register the devices in Smart Licensing.				
Task ID	Task ID	Dperation			
	pkg-mgmt	execute			
Examples	The followin IOS XR:	ng example shows output for the lice	ense smart register idtoken command on Cisco		
	Router# license smart register idtoken MjczNDMwZWYtNDAzMS00NjNmLWJmMTQtMzM1YmRhZDAxZWNmLTE3MjA10 TE3%3WVk3VzFYeDVxc0xSaEZqNjhtNERGMnc5UHZK%0AU1RMYz0%3D%0A				

license smart save

To save Smart Licensing authorization codes, policies, trust codes and other licensing elements, use the **license smart save** command in XR EXEC mode.

license smart save { usage { all | days days | rum-id rum-ID | unreported } { filepath_filename } }
+ { trust-request filepath_filename }

Syntax Description	<pre>license smart save { usage { all days days rum-id rum-ID unreported } { filepath_filename } }</pre>	Saves RUM reports (license usage information) in the specified location. You must specify one of these options: • all: Saves all RUM reports.		
		• days <i>days</i> : Saves RUM report for the last n number of days (excluding the current day). Enter a number. The valid range is 0 to 365.		
		For example, if you enter 3, RUM reports of the last three days are saved.		
		• rum-Id <i>rum-ID</i> : Saves a specified RUM ID. The valid value range is 0 to 18446744073709551615.		
		• unreported: Saves all unreported RUM reports.		
		• <i>filepath_filename</i> : Saves the specified usage information to a file. Specify the absolute path to the file, including the filename.		
	trust-request filepath_filename	Saves the trust code request for the active product instance in the specified location.		
		For <i>filepath_filename</i> , specify the absolute path to the file, including the filename.		
Command Default	None			
Command Modes	XR EXEC mode			

Command History	Release	Modification
Usage Guidelines	Release 24.1.1	This command was introduced.
	No specific	guidelines impact the use of this con

 Task ID
 Task ID
 Operation

 pkg-mgmt
 execute

Examples

This example shows how you can save all license usage information to a specified location: Router# license smart save usage all tftp://203.0.113.5/auto/tftp-abc/test.txt This example shows how you can save trust code request for the active product instance in the specified location:

Router# license smart save trust-request tftp://203.0.113.5/auto/tftp-abc/test.txt

license smart sync

To synchronize the Smart Licensing status, use the license smart sync command in the XR EXEC mode.

	license sma	art sync all	
Syntax Description	all		Specifies codes for all devices in HA config.
Syntax Description	This comma	and has no keywords or arguments.	
Command Default	None		
Command Modes	XR EXEC 1	mode	
Command History	Release	Modification	
	Release 24.1.1	This command was introduced.	
Usage Guidelines	mode. Norn	nally, the product instance automatic	an enter the license smart sync command in privileged EXEC cally sends this report at the scheduled time, according to the e, it sends a request for a UDI-tied trust code.
Task ID	Task ID	Operation	
	pkg-mgmt	execute	
Examples		ng example shows output for the lic .cense smart sync all	ense smart sync all command on Cisco IOS XR:

license smart transport

To configure the transport mode, use the license smart transport command in the XR Config mode.

license smart transport { callhome | cslu | off | smart }

Syntax Description	callhome		Use call home as transport.	
	cslu		Use CSLU as transport.	
	off		It disables the transport functionality.	
	smart		Use smart transport.	
Syntax Description	This comma	nd has no keywords or arguments		
Command Default	The cslu tra	The cslu transport is default only in on-premises deployments.		
Command Modes	XR Config	node		
Command History	Release	Modification	-	
	Release 24.1.1	This command was introduced.	_	
Usage Guidelines	No specific	guidelines impact the use of this c	ommand.	
Task ID	Task ID	Operation		
	pkg-mgmt	read, write		
Examples	The followin XR:	ng example shows output for the li	cense smart transport cslu command on Cisco IOS	
	Router # co Router(con	nfigure fig)# license smart transport	z cslu	

license smart url

To configure the transport URL, use the license smart url command in XR Config mode.

	license smart	url { cslu smart } <url></url>	
Syntax Description	cslu < <i>url</i> >		Set the CSLU URL.
	smart <url></url>		Set the smart transport URL.
Syntax Description	This command	has no keywords or arguments.	
Command Default	None		
Command Modes	XR Config mo	de	
Command History	Release	Modification	
	Release 24.1.1	This command was introduced.	
Usage Guidelines		eiver.cisco.com/licservice/licens	XEC mode, to check if the URL is exactly as shown in se. If it is not, reconfigure the license smart url command in
Task ID	Task ID Ope	eration	
	pkg-mgmt rea wr		
Examples	The following	example shows output for the lic	cense smart url command on Cisco IOS XR:
	Router# conf : Router(config	-	https://smartreceiver.cisco.com/licservice/license
	Verify using sh	ow license status command in 2	XR EXEC mode.
		license status 5:05:47.028 UTC	
	Utility: Status: DIS	SABLED	
	Smart Licens: Status: ENA	ng Using Policy: ABLED	
		rmation: ant: <none> count: <none></none></none>	
	Data Privacy Sending Ho:		

```
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED
Transport:
Type: cslu
Cslu address: https://smartreceiver.cisco.com/licservice/license
Proxy:
Not Configured
VRF:
```

license smart trust idtoken

To establish trust between a Smart Licensing using Policy (SLP) enabled Cisco device and the Smart Software Manager (SSM) on-premises, use the **license smart trust idtoken** *id_token_value* command in XR EXEC mode.

license smart trust idtoken id_token_value all { force }

Syntax Description	id_token_va	alue	Provide id token received from backend.
	all		Establish trust with backend for all CSLU.
	force		(Optional) Force backend to re-establish trust.
Syntax Description	This comma	and has no keywords or arguments.	
Command Default	None		
Command Modes	XR EXEC n	node	
Command History	Release	Modification	
	Release 24.1.1	This command was introduced.	
Usage Guidelines	No specific	guidelines impact the use of this co	mmand.
Task ID	Task ID	Operation	
	pkg-mgmt	execute	
Examples	The followin XR:	ng example shows output for the lic	ense smart trust idtoken command on Cisco IOS
	Doutor# 1:	conce amont trust idtakon Micro	IDMwZWYtNDAzMS00NjNmLWJmMTQtMzM1YmRhZDAxZWNmLTE3MjA1

process restart plat_sl_client

To restart the platform SL client process, use the process restart plat_sl_client command in XR EXEC mode.

process restart plat_sl_client [location [node-id path | all]]

Syntax Description	location		(Optional) Specifies the node to reload.
	node-id		(Optional) The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation
	path		(Optional) Specifies the storage device and directory path.
	all		(Optional) The all keyword specifies all RP nodes.
Command Default	None		
Command Modes	XR EXEC 1	mode	
Command History	Release	Modification	-
	Release 6.0.1	This command was introduced.	-
Usage Guidelines	Execute the properly.	process restart plat_sl_client cc	ommand after a factory reset to ensure the smart agent functions
Task ID	Task ID	Operation	
	cisco-suppor	rt execute	
Examples	The followi XR:	ng example shows output for the p	process restart plat_sl_client command on Cisco IOS
	Router:Oct	cocess restart plat_sl_client 3 13:06:24.534 UTC: sysmgr 0 (con0_RSP0_C	: c_control[65814]: %OS-SYSMGR-4-PROC_RESTART_NAME :

process restart smartlicserver

To restart the smart license server process, use the **process restart smartlicserver** command in XR EXEC mode.

process restart smartlicserver [location [node-id path | all]]

location node-id path all None XR EXEC m	ode		 (Optional) Specifies the node to reload. (Optional) The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation (Optional) Specifies the storage device and directory path. (Optional) The all keyword specifies all RP nodes.
<i>path</i> all None XR EXEC m	ode		<i>rack/slot/module</i> notation(Optional) Specifies the storage device and directory path.
all None XR EXEC m	ode		path.
None XR EXEC m	ode		(Optional) The all keyword specifies all RP nodes.
XR EXEC m	ode		
	ode		
Release	Modificati	ion	-
Release 6.0.1	This comn	nand was introduced.	-
Execute the p properly.	orocess resta	art smartlicserver co	ommand after a factory reset to ensure the smart agent functions
Task ID	Operation		
cisco-support	execute		
The followin OS XR:	g example s	hows output for the J	process restart smartlicserver command on Cisco
Router:Oct	3 12:41:3	0.880 UTC: sysmgr	_control[68360]: %OS-SYSMGR-4-PROC_RESTART_NAME :
	Task ID Cisco-support The followin OS XR: outer# pro outer:0ct	Task ID Operation cisco-support execute The following example site outer# outer# process resta outer: 012:41:3	Task ID Operation Cisco-support execute The following example shows output for the post XR: outer# process restart smartlicserver

show license all

To display all entitlements in use the **show license all** command in XR EXEC mode.

	show license all				
Syntax Description	This command has no keywords or arguments.				
Command Default	None				
Command Modes	XR EXEC mode				
Command History	Release	Modification			
	Release 5.2.0	This command was introduced.			
Usage Guidelines	No specific	guidelines impact the use of this command.			
Examples	This example displays the use of the show license all command.				
	Router# show license all				
	Thu May 9 09:41:05.800 UTC				
	Smart Licensing Status				
	Smart Licensing is ENABLED				
	License Conversion: Automatic Conversion Enabled: True				
	Export Authorization Key: Features Authorized: <none></none>				
	Utility: Status:	DISABLED			
	Smart Lice Status:	ensing Using Policy: ENABLED			
	Smart Ac	nformation: ccount: <none> Account: <none></none></none>			

show license rum

To display information about Resource Utilization Measurement reports (RUM report) available on the product instance, including report IDs, the current processing state of a report, error information (if any), and to save the detailed or summarized view that is displayed, use the **show license rum** command in the XR EXEC mode.

show license rum id all [detail]

Syntax Description	id		Displays RUM report information based on the license name.			
	all detail		Specify a particular license name to display all RUM reports for that license, or use the all keyword to display all RUM reports available on the product instance. Displays detailed RUM report information.			
			You can use this to display detailed information by license name and detailed information by RUM report ID.			
Command Default	None					
Command Modes	XR EXEC r	node				
Command History	Release	Modification				
	Release 24.1.1	This command was introduced.				
Usage Guidelines	A RUM report is a license usage report, which the product instance generates, to fulfil reporting requirements as specified by the policy. An acknowledgement (ACK) is a response from CSSM and provides information about the status of a RUM report. Once the ACK for a report is available on the product instance, it indicates that the corresponding RUM report is no longer required and can be deleted. You can use the show license rum command to:					
	Display information about the available RUM reports on the product instance - filtered by ID or license name.					
	Display a short summary of the information or display a detailed view of the information.					
	Track a RUM report throughout its lifecycle (from the time it is first generated until its acknowledgement from CSSM). By displaying the current processing state and condition of a report you can ascertain if and when there is a problem in the reporting workflow.					
	Save the displayed information. The CLI displays information about up to 200 reports. If there are more than 200 reports on the product instance and you want to view information about all of them, save the displayed info in a .txt file and export to the desired location to view.					
	To display a statistical view of RUM report information (the total number of reports on the product instance, the number of reports that have a corresponding ACK, the number of reports waiting for an ACK etc.) refer					

to the Usage Report Summary: section of the show license all and show license tech privileged EXEC commands.

The show license tech command also provides RUM report related information that the Cisco technical support team can use to troubleshoot, if there are problems with RUM reporting.

Task ID Task ID Operation

pkg-mgmt Execute

Examples

The following example shows output for the **show license rum id all** command on Cisco IOS XR:

```
Router# show license rum id all
Tue Jun 18 00:27:40.389 UTC
Smart Licensing Usage Report:
```

			=
Report Id,	State,	Flag,	Feature Name
1718664968	ACK	Ν	8KSW B SIA
1718664969	ACK	Ν	8KSW C SIA
1718664970	ACK	Ν	8KSW D SIA
1718664971	ACK	Ν	8KE PRM 100G RTU
1718664972	ACK	Ν	8KSW B SIA
1718664973	ACK	Ν	8KSW C SIA
1718664974	ACK	Ν	8KSW D SIA
1718664975	ACK	Ν	8KE PRM 100G RTU
1718664976	ACK	Ν	8KE ADN 100G RTU
1718664977	ACK	Ν	8KSW B SIA
1718664978	ACK	Ν	8KSW C SIA
1718664979	ACK	Ν	8KSW D SIA
1718664980	ACK	Ν	8KE ADN 100G RTU
1718664981	ACK	Ν	8KSW B SIA
1718664982	ACK	Ν	8KSW C SIA
1718664983	ACK	Ν	8KSW D SIA
1718664984	ACK	N	8KE_ESS_100G_RTU
1718664985	ACK	Ν	8KE ADN 100G RTU
1718664986	OPEN	Ν	8KSW B SIA
1718664987	OPEN	N	8KSW_C_SIA
1718664988	OPEN	Ν	8KSW_D_SIA
1718664989	OPEN	N	8KE_ADN_100G_RTU

The following example shows output for the **show license rum id all detail** command on Cisco IOS XR:

Router# show license rum id all detail Tue Jun 18 00:28:01.307 UTC Smart Licensing Usage Report Detail: _____ Report Id: 1718664968 Metric Name: ENTITLEMENT Feature Name: 8KSW B SIA Metric Value: regid.2024-03.com.cisco.8KSW B SIA,1.0 dda2a110-f0be-453c-8f82-6362ea7fde74 UDI: PID:8808, SN:FOX2412PNUY Previous Report Id: 0, Next Report Id: 1718664972 Version: 2.0 State: ACK, State Change Reason: ACKED Close Reason: SMART Start Time: Jun 17 2024 22:56:55 UTC, End Time: Jun 17 2024 23:05:32 UTC Storage State: DELETED, Storage State Change Reason: PROCESSED Transaction ID: 0 () Transaction Message: <none> Report Size: 1320(0)

Report Id: 1718664969 Metric Name: ENTITLEMENT Feature Name: 8KSW C SIA Metric Value: regid.2024-03.com.cisco.8KSW C SIA,1.0 aaf74680-e8ed-4293-8794-352952cdf64f UDI: PID:8808, SN:FOX2412PNUY Previous Report Id: 0, Next Report Id: 1718664973 Version: 2.0 State: ACK, State Change Reason: ACKED Close Reason: SMART Start Time: Jun 17 2024 22:56:57 UTC, End Time: Jun 17 2024 23:05:33 UTC Storage State: DELETED, Storage State Change Reason: PROCESSED Transaction ID: 0 () Transaction Message: <none> Report Size: 1320(0) Report Id: 1718664970 Metric Name: ENTITLEMENT Feature Name: 8KSW D SIA Metric Value: regid.2024-03.com.cisco.8KSW D SIA,1.0 601a512c-6644-4d4b-8e8b-9d5414d7d196 UDI: PID:8808, SN:FOX2412PNUY Next Report Id: 1718664974 Previous Report Id: 0, Version: 2.0 State Change Reason: ACKED State: ACK, Close Reason: SMART Start Time: Jun 17 2024 22:56:58 UTC, End Time: Jun 17 2024 23:05:33 UTC Storage State: DELETED, Storage State Change Reason: PROCESSED Transaction ID: 0 () Transaction Message: <none> Report Size: 1320(0) Report Id: 1718664971 Metric Name: ENTITLEMENT Feature Name: 8KE PRM 100G RTU Metric Value: regid.2023-05.com.cisco.8KE PRM 100G RTU,1.0 b3e036df-810f-41a8-9c44-1ec757967f66 UDI: PID:8808, SN:FOX2412PNUY Previous Report Id: 0, Next Report Id: 1718664975 Version: 2.0 State: ACK, State Change Reason: ACKED Close Reason: SMART Start Time: Jun 17 2024 23:05:34 UTC, End Time: Jun 17 2024 23:05:35 UTC Storage State: DELETED, Storage State Change Reason: PROCESSED Transaction ID: 0 () Transaction Message: <none> Report Size: 1153(0) Report Id: 1718664972 Metric Name: ENTITLEMENT Feature Name: 8KSW B SIA Metric Value: regid.2024-03.com.cisco.8KSW B SIA,1.0 dda2a110-f0be-453c-8f82-6362ea7fde74 UDI: PID:8808, SN:FOX2412PNUY Previous Report Id: 1718664968, Next Report Id: 1718664977 Version: 2.0 State: ACK, State Change Reason: ACKED Close Reason: SMART Start Time: Jun 17 2024 23:05:32 UTC, End Time: Jun 17 2024 23:18:40 UTC Storage State: DELETED, Storage State Change Reason: PROCESSED Transaction ID: 0 () Transaction Message: <none> Report Size: 1218(0)

Report Id: 1718664973 Metric Name: ENTITLEMENT Feature Name: 8KSW C SIA Metric Value: regid.2024-03.com.cisco.8KSW_C_SIA,1.0_aaf74680-e8ed-4293-8794-352952cdf64f UDI: PID:8808, SN:FOX2412PNUY Previous Report Id: 1718664969, Next Report Id: 1718664978 Version: 2.0 State Change Reason: ACKED State: ACK, Close Reason: SMART Start Time: Jun 17 2024 23:05:33 UTC, End Time: Jun 17 2024 23:18:41 UTC Storage State: DELETED, Storage State Change Reason: PROCESSED Transaction ID: 0 () Transaction Message: <none> Report Size: 1218(0)

show license udi (smart)

To display the Smart Licensing UDI, use the show license udi command in XR EXEC mode.

	show licen	se udi	
Syntax Description	This comm	hand has no keywords or arguments	
Command Default	None		
Command Modes	- XR EXEC	mode	
Command History	Release	Modification	
	Release 5.2.0	This command was introduced.	
Usage Guidelines		user group assignment is preventin	oup associated with a task group that includes appropriate task g you from using a command, contact your AAA administrator
Task ID	Task ID	Operation	
	pkg-mgmt	Read	
Examples	Router# s UDI:	ple shows you how to use the show how license udi 001, sn:FOC1741NC0Z	license udi command, and a sample output.

show license platform detail

To display smart license detail, use the show license platform detail command in the XR EXEC mode.

	show license platform detail				
Syntax Description	This command has no keywords or arguments.				
Command Default	None				
Command Modes	XR EXEC mode				
Command History	Release Modification				
	ReleaseThis command was introduced.7.11.1				
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.				
Task ID	Task ID Operation				
	pkg-mgmt Read				
Examples	The following example shows output for the show license platform detail command on Cisco IOS XR:				
	Router# show license platform detail Wed May 8 06:29:33.782 UTC Collection: LAST: Wed May 08 2024 06:27:38 UTC NEXT: Wed May 08 2024 07:27:38 UTC Reporting: LAST: Wed May 08 2024 06:27:38 UTC NEXT: Thu May 09 2024 06:27:38 UTC SIA Status: In Compliance Parameters: Collection interval: 60 minute(s) Reporting interval: 1440 minute(s) Throughput gauge: 1000000 Kbps				
	Feature/Area system Name: System Status: ACTIVE Flags: CONFIG				
	 [1] Name: Product: ASR9K 8x100GE-CM Right to Use Entitlement Tag: regid.2015-06.com.cisco.A9K-8X100GE-CM,1.0_f05eb271-27f3-4169-b143-0b468072f8f7 Count: Last reported: 0 Next report: 0 [2] Name: Product: ASR99 8x100GE-CM Right to Use Entitlement Tag: 				

regid.2016-02.com.cisco.A99-8X100GE-CM,1.0_dc4a177b-2992-42d3-b004-885f9b969839 Count: Last reported: 0

show license platform summary

To display smart license summary, use the **show license platform summary** command in the XR EXEC mode.

show license platform summary

Syntax Description	This comma	and has no keywords or argument	ts.
Command Default	None		
Command Modes	- XR EXEC 1	mode	
Command History	Release	Modification	
	Release 7.11.1	This command was introduced	ed.
Usage Guidelines		iser group assignment is preventin	group associated with a task group that includes appropriate task ng you from using a command, contact your AAA administrator
Task ID	Task ID	Operation	
	pkg-mgmt	Read	
Examples	The followi	ng example shows output for the	show license platform summary command on Cisco
	IOS XR:		
	Router# sh	now license platform summary	
	Router# sh Wed May 8	06:29:12.376 UTC 1: LAST: Wed May 08 2024 06:2	27:38 UTC
	Router# sh Wed May 8 Collection	<pre>8 06:29:12.376 UTC 1: LAST: Wed May 08 2024 06:2 NEXT: Wed May 08 2024 07:2 LAST: Wed May 08 2024 06:2</pre>	27:38 UTC 27:38 UTC 27:38 UTC
	Router# sh Wed May 8 Collection Reporting:	<pre>8 06:29:12.376 UTC 1: LAST: Wed May 08 2024 06:2 NEXT: Wed May 08 2024 07:2</pre>	27:38 UTC 27:38 UTC 27:38 UTC

show license platform trace

To display trace logs for platform-specific licensing operations, use the **show license platform trace** command in XR EXEC mode.

show license platform trace { all | detail | error | info }

Syntax Description	all		Displays all trace logs.
	detail		Displays detail trace logs.
	error		Displays error messages in the trace logs.
	info		Displays detailed informational messages in the trace logs.
Command Default	None		
Command Modes	XR EXEC n	node	
Command History	Release	Modification	
	Release 7.11.1	This command was introduced.	
Usage Guidelines		ser group assignment is preventing	up associated with a task group that includes appropriate task you from using a command, contact your AAA administrator
Task ID	Task ID		
		Operation	
	pkg-mgmt	•	
Examples	pkg-mgmt	Read	ow license platform trace command with the all

May 8 06:16:59.852 plat_sl/sl-det 0/RSP0/CPU0 t6906 EDM init completed May 8 06:16:59.852 plat_sl/sl-det 0/RSP0/CPU0 t6906 Plugin Configuration init completed May 8 06:16:59.852 plat_sl/sl-det 0/RSP0/CPU0 t6906 IM init completed May 8 06:16:59.881 plat_sl/sl-det 0/RSP0/CPU0 t7344 plat_sl_edm_thread: evm 0x7f6638000b70 May 8 06:16:59.914 plat_sl/sl-det 0/RSP0/CPU0 t7345 sysdb bind to /cfg/gl/flexconsumption/ completed May 8 06:16:59.914 plat_sl/sl-det 0/RSP0/CPU0 t7344 sysdb bind to /admin/oper/smartlic-edm/gl/ completed May 8 06:16:59.951 plat_sl/sl-det 0/RSP0/CPU0 t7345 sysdb bind to /cfg/gl/licensing/ completed May 8 06:16:59.989 plat_sl/sl-det 0/RSP0/CPU0 t7344 sysdb edm register completed May 8 06:16:59.989 plat_sl/sl-det 0/RSP0/CPU0 t7344 sysdb edm register completed May 8 06:16:59.989 plat_sl/sl-det 0/RSP0/CPU0 t6906 Install init completed May 8 06:17:00.008 plat_sl/sl-det 0/RSP0/CPU0 t6906 Opening connection to IM May 8 06:17:00.031 plat_sl/sl-det 0/RSP0/CPU0 t7345 sysdb edm register completed for flex consumption

show license status

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

show license status

Syntax Description	This command has no keywords or arguments.
Command Default	None
Command Modes	XR EXEC mode
Command History	Release Modification
	Release 5.3.3 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.
Task ID	Task ID Operation
	pkg-mgmt read
Examples	The following example shows output from the show license status command:
	Router# show license status Fri Sep 27 12:10:47.338 UTC
	Utility: Status: DISABLED
	Smart Licensing Using Policy: Status: ENABLED
	Account Information: Smart Account: <none> Virtual Account: <none></none></none>
	Data Privacy: Sending Hostname: yes Callhome hostname privacy: DISABLED Smart Licensing hostname privacy: DISABLED Version privacy: DISABLED
	Transport: Type: cslu Cslu address: <empty> Proxy: Not Configured VRF: Not Supported</empty>

Policy: Policy in use: Merged from multiple sources. Reporting ACK required: yes (CISCO default) Unenforced/Non-Export Perpetual Attributes: First report requirement (days): 365 (CISCO default) Reporting frequency (days): 0 (CISCO default) Report on change (days): 90 (CISCO default) Unenforced/Non-Export Subscription Attributes: First report requirement (days): 90 (CISCO default) Reporting frequency (days): 90 (CISCO default) Report on change (days): 90 (CISCO default) Enforced (Perpetual/Subscription) License Attributes: First report requirement (days): 0 (CISCO default) Reporting frequency (days): 0 (CISCO default) Report on change (days): 0 (CISCO default) Export (Perpetual/Subscription) License Attributes: First report requirement (days): 0 (CISCO default) Reporting frequency (days): 0 (CISCO default) Report on change (days): 0 (CISCO default) Miscellaneous: Custom Id: <empty>

Usage Reporting: Last ACK received: <none> Next ACK deadline: Sep 12 2025 15:46:25 UTC Reporting push interval: 30 days Next ACK push check: <none> Next report push: Sep 12 2024 15:48:25 UTC Last report push: <none> Last report file write: <none>

Trust Code Installed: <none> Secondary Signing Cert: 0

Device Telemetry Report Summary:

Data Channel: AVAILABLE Reports on disk: 0

show license summary

To display the license summary, use the show license summary command in XR EXEC mode.

	show license summary				
Syntax Description	This command has no keywords or a	rguments.			
Command Default	None				
Command Modes	XR EXEC mode				
Command History	Release Modification				
	Release 6.1.1 This command was introduced.				
Usage Guidelines		a a user group associated with a task group preventing you from using a command, co			
Task ID	Task ID Operation				
	pkg-mgmt read				
Examples	The following example shows output from the show license summary command:				
	Router# show license summary				
	Smart Licensing is ENABLED				
	Registration: Status: REGISTERED Smart Account: <i>Smart-Account-Name</i> Virtual Account: ASR9K-SL-eXR Last Renewal Attempt: None Next Renewal Attempt: Mon Apr 09 2018 12:52:44 UTC				
	License Authorization: Status: AUTHORIZED on Wed Oct 11 2017 12:55:24 UTC Last Communication Attempt: SUCCEEDED Next Communication Attempt: Thu Oct 12 2017 00:55:24 UTC				
	License Usage: License	Entitlement tag	Count	Status	
	ASR 9000 Consumption Model LC		1	AUTHORIZED	
	ASR 9K 48x10-1G Consumption M Line Card License	4odel (A9K-48X10-1-CM-LIC)	1	AUTHORIZED	
	ASR9000 IP Basic 10G	(S-A9K-IP-10G)	48	AUTHORIZED	

show license usage

To display the license usage count, use the show license usage command in XR EXEC mode.

	show license usage This command has no keywords or arguments.	
Syntax Description		
Command Default	None	
Command Modes	XR EXEC mode	
Command History	Release Modification	
	Release 6.1.1 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.	
Task ID	Task ID Operation	
	pkg-mgmt read	
Examples	The following example shows output from the show license usage command: Router# show license usage Wed Sep 25 02:52:02.267 UTC ESS_100G_RTU_1 (ESS-100G-RTU-1): Description: Core and Aggregation Essentials SW Right-to-Use v1.0 per 100G Count: 1 Version: 1.0 Status: NOT AUTHORIZED Export status: NOT RESTRICTED Feature Description: Core and Aggregation Essentials SW Right-to-Use v1.0 per 100G Enforcement type: NOT ENFORCED License type: Perpetual Reservation: Reservation: status: NOT INSTALLED ESS_100G_SIA_3 (ESS-100G-SIA-3): Description: Core and Aggr Essentials SIA per 100G Count: 1 Version: 1.0 Status: NOT AUTHORIZED Export status: NOT RESTRICTED Feature Description: Core and Aggr Essentials SIA per 100G Enforcement type: NOT RESTRICTED Feature Description: Core and Aggr Essentials SIA per 100G Enforcement ESS_100G_SIA_3 Feature Description: Core and Aggr Essentials SIA per 100G Enforcement type: NOT RESTRICTED Feature Description: Core and Aggr Essentials SIA per 100G Enforcement type: NOT ENFORCED License type: Subscription Reservation: Reservation: Reservation:	