



Smart Licensing Commands

This chapter describes the commands that can be used to configure smart licensing.

For more information about Smart licensing, see Smart licensing chapter in the *System Management Configuration Guide for Cisco NCS 5500 Series Routers*, *System Management Configuration Guide for Cisco NCS 540 Series Routers*, and *System Management Configuration Guide for Cisco NCS 560 Series Routers*.

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license smart flexible-consumption enable

To enable or disable Flexible Consumption model licensing for your hardware or software, use **license smart flexible-consumption enable** command in the global configuration mode.

Use the **no** form of this command to disable Flexible Consumption model licensing.

license smart flexible-consumption enable

Command Default By default, Flexible Consumption model licensing is disabled for a system. You have to explicitly enable it before you can start using the Flexible Consumption model licenses.

Command Modes Global configuration

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

Usage Guidelines Once the command is enabled, the router captures consumption information periodically after each reporting interval. The daily license usage is reported to the Smart Licensing Manager at cisco.com. For more information about the various licenses of the Flexible consumption model, see *Supported Flexible Consumption Model Licenses* in chapter *Configuring Smart Licensing of Interface and Hardware Component Configuration Guide for Cisco NCS 5500 Series Routers*.

Table 1: Task ID

Task ID	Operation
sysmgr	read, write

Examples

The following example shows how to configure the **license smart flexible-consumption** command:

```
Router# configure
Router(config)# license smart flexible-consumption enable
Router# commit
```

license smart enable

To enable Smart Licensing for your product, use the **license smart enable** command in the admin configuration mode or system admin configuration mode.

Use the **no** form of this command to disable Smart Licensing and return to the default traditional mode of licensing.

license smart enable

Syntax Description This command has no keywords or arguments.

Command Default By default, smart licensing mode is on.

Command Modes Admin configuration mode
System Admin config mode

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

Usage Guidelines Smart Licensing components are packaged into the ncs5500 mini image. By default, smart licensing mode is on.

Task ID	Task ID	Operation
	pkg-mgmt	Read, Write, Execute

Example

This example shows how to run the command to enable Smart Licensing, and the configuration with Smart Licensing enabled.

```
Router(admin)# configure
Router(admin-config)# license smart enable
Router(admin-config)# show config
```

show license status

To display the status of Smart Licensing, use the **show license status** command in the Admin EXEC mode or System admin EXEC mode.

show license status

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes Admin EXEC
System Admin EXEC

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operation
	pkg-mgmt	Read

Example

This example displays the current status of your license using the show license status command:

```
Router(admin)#show license status
Smart Licensing is ENABLED
```

Registration:

```
Status: REGISTERED
Smart Account: <Smart Account name>
Virtual Account: Physics
Export-Controlled Functionality: Not Allowed
Initial Registration: SUCCEEDED on Feb 24 23:30:12 2014 PST
Last Renewal Attempt: SUCCEEDED on Feb 24 23:30:12 2014 PST
Next Renewal Attempt: Aug 24 23:30:12 2014 PST
Registration Expires: Feb 24 23:30:12 2015 PST
```

License Authorization:

```
Status: AUTHORIZED on Feb 24 23:30:12 2014 2014 PST
Last Communication Attempt: SUCCEEDED on Feb 24 23:30:12 2014 PST
Next Communication Attempt: Mar 24 23:30:12 2014 PST
Communication Deadline: May 24 23:30:12 2015 PST
```

In the above example the smart license is enabled and:

- status is registered,
- authorization is successful and the status is Authorized,

- the information is exchanged to keep the databases in synchronization.

show license summary

To display the detailed information about the Smart License entitlements, use the **show license summary** command in the Admin EXEC or System Admin EXEC mode.

show license summary

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes Admin EXEC
System Admin EXEC

Command History

Release	Modification
Release 7.0.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
pkg-mgmt	Read

Example

This example displays the current status of your license using the show license summary command:

```
Router(admin)#show license status
Smart Licensing is ENABLED
```

Registration:

```
Status: REGISTERED
Smart Account: Smart Account Name
Virtual Account: Physics
Export-Controlled Functionality: Not Allowed
Last Renewal Attempt: None
Next Renewal Attempt: Aug 24 23:30:12 2014 PST
```

License Authorization:

```
Status: AUTH EXPIRED
Last Communication Attempt: FAILED
Next Communication Attempt: Mar 25 23:30:12 2014 PST
```

License Usage:

License	Entitlement Tag	Count	Status
A9K-ADV-OPTIC-LIC	(adv_optic)	1	AUTH EXPIRED
A9K-IVRF-LIC	(ivrfl_lic)	1	AUTH EXPIRED

In the above example the smart license is enabled and:

- status is registered,
- authorization period is expired,
- the information about license usage of each entitlements.

show license udi

To display the Smart Licensing UDI (unique device identifier) information, use the **show license udi** command in the Admin EXEC mode or System Admin EXEC mode.

show license udi

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes Admin EXEC
System Admin EXEC

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operation
	pkg-mgmt	Read

Example

This example displays the current status of your license using the show license summary command:

```
Router (admin) #show license udi
```


show license usage

To display the Smart Licensing usage information, use the **show license usage** command in the Admin EXEC mode or System Admin EXEC mode.

show license usage

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes Admin EXEC mode
System Admin EXEC mode

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operation
	pkg-mgmt	Read

Example

This example displays the current usage information of your license:

```
Router(admin)#show license usage
```

show license all

To display the Smart Licensing status, usage, and UDI (unique device identifier) information, use the **show license all** command in the Admin EXEC mode or System Admin EXEC mode..

show license all

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes Admin EXEC
System Admin EXEC

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operation
	pkg-mgmt	Read

Example

This example displays the detailed information about your license:

```
Router (admin) #show license all
```