Cisco NCS 5500 Product Overview

Cisco NCS 5500 system is a high fault-resilient platform, which provides next generation data-center switching environment with high bandwidth and low latency.

Cisco NCS 5500 system provides:

- A modular router with a centralized route processor with multiple line card per chassis.
- High density, high performance, and merchant silicon-based line cards.
- IP and MPLS switching at a low cost per 100G.
- Label Switched Router (LSR) and possible Light Label switched Edge Router (LER) features and functionality with limited hardware scale and software functionality.

Note The Cisco Network Convergence System (NCS) 5700 Series builds on the Cisco NCS 5500 fixed systems by combining the forwarding ASIC design with the Cisco IOS XR7 OS. The Cisco NCS 5700 series includes the following variants:

- NCS-57B1-6D24
- NCS-57B1-5DSE

These variants of the NCS 5700 series run on the Cisco IOS XR7 operating system. For information about setting up the routers, see Setup Cisco NCS 5500 and NCS 5700 Series Routers with XR7 OS. For information about installing the XR7 OS on NCS 5700 series, see Install Cisco IOS XR7 on NCS 5700 and NCS 5500 Series Routers.

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Command Modes

The router runs on virtualized Cisco IOS XR software. Therefore, the CLI commands must be executed on virtual machines, namely the XR LXC and the System Admin LXC.

The command modes are applicable for the Cisco NCS 5500 Series Routers. This table lists the command modes for the LXCs.

Command Mode	Description
XR EXEC mode (XR LXC execution mode)	Run commands on the XR LXC to display the operational state of the router. Example: `RP/0/RP0/CPU0:router#`

XR Config mode
(XR LXC configuration mode)
	Perform security, routing, and other XR feature configurations on the XR LXC.
	Example:
	`RP/0/RP0/CPU0:router#configure`
	`RP/0/RP0/CPU0:router(config)#`

System Admin EXEC mode
(System Admin LXC execution mode)
	Run commands on the System Admin LXC to display and monitor the operational state of the router hardware. The chassis or individual hardware modules can be reloaded from this mode.
	Example:
	`RP/0/RP0/CPU0:router#admin`
	`sysadmin-vm:0_RP0#`

Admin Configuration modeSystem Admin Config mode
(System Admin LXCconfiguration mode)
	Run configuration commands on the System Admin LXC to manage and operate the hardware modules of the entire chassis.
	Example:
	`RP/0/RP0/CPU0:router#admin`
	`sysadmin-vm:0_RP0#config`
	`sysadmin-vm:0_RP0(config)#`