

Monitoring the System

This chapter provides information for monitoring system status and performance using the **show** commands found in the Command Line Interface (CLI). These command have many related keywords that allow them to provide useful information on all aspects of the system ranging from current software configuration through call activity and status.

The selection of keywords described in this chapter is intended to provide the most useful and in-depth information for monitoring the system. For additional information on these and other **show** command keywords, refer to the *Exec Mode show Commands* chapter of the *Command Line Interface Reference*.



Note

A VPC-DI or VPC-SI virtual machine (VM) has no knowledge of the hypervisor under which it is running or the commercial off-the-shelf (COTS) server. To monitor the status of the hypervisor and COTS server, refer to the user documentation supplied with these components of this system.



Important

In Release 21.1 and forward, use the **do show** command to run all Exec Mode **show** commands while in Global Configuration Mode. It is not necessary to exit the Config mode to run a **show** command. The pipe character | is only available if the command is valid in the Exec mode.

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SNMP Notifications

In addition to the CLI, the system supports Simple Network Management Protocol (SNMP) notifications that indicate status and alarm conditions. Refer to the *SNMP MIB Reference* for a detailed listing of these notifications.

Monitoring System Status and Performance

This section contains commands used to monitor the status of tasks, managers, applications and other software components in the system. Output descriptions for most of the commands are located in the *Statistics and Counters Reference*.

Table 1: System Status and Performance Monitoring Commands

To do this:	Enter this command:	
View Administrative Information		
Display Current Administrative User Access		
View a list of all administrative users currently logged on the system	show administrators	
View the context in which the administrative user is working, the IP address from which the administrative user is accessing the CLI, and a system generated ID number	show administrators session id	
View information pertaining to local-user administrative accounts configured for the system	show local-user verbose	
View statistics for local-user administrative accounts	show local-user statistics verbose	
View information pertaining to your CLI session	show cli	
Determining System Uptime		
View system uptime (time since last reboot)	show system uptime	
View NTP Server Status		
View NTP servers status	show ntp status	
View System Resources		
View all system resources such as CPU resources and number of managers created	show resources [cpu]	
View System Alarms		
View information about all currently outstanding alarms	show alarm outstanding all verbose	
View system alarm statistics	show alarm statistics	
View Congestion-Control Statistics		
View Congestion-Control Statistics	show congestion-control statistics	
View Remote Management Statistics		
View SNMP notification statistics	show snmp notifies	
View SNMP access statistics	show snmp accesses	
View SNMP trap history	show snmp trap history	
View SNMP Trap Statistics	show snmp trap statistics	

To do this:	Enter this command:	
View Port Counters		
View datalink counters for a specific port	show port datalink counters slot#/port#	
View Port Network Processor Unit (NPU) counters for a specific port	show port npu counters slot#/port#	
View System Information and Network Interfaces		
View information about system components, storage devices and network interfaces	show hardware	
View Card Information and Statistics		
View diagnostics for all cards or for a card in a specific slot/port; (for VPC, slot = VM)	show card diag slot/port	
View detailed information for all cards or a card in a specific slot/port (for VPC, slot = VM)	show card info slot/port	
View operating status for all cards or VMs	show card table	
View the contents of the boot configuration (param.cfg) file	show cloud configuration	
[VPC-DI]		
View information about installed hardware and whether it is optimal or not for a specific card or all cards in the system	show cloud hardware	
[VPC-DI]		
View monitored statistics about the VPC-DI network relative to a specific card	show cloud monitor di-network	
[VPC-DI]		



Important

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).



Important

Some commands have different outputs depending on the platform type.

Clearing Statistics and Counters

It may be necessary to periodically clear statistics and counters in order to gather new information. The system provides the ability to clear statistics and counters based on their grouping (PPP, MIPHA, MIPFA, etc.).

Statistics and counters can be cleared using the CLI **clear** command. Refer to the *Exec Mode Commands* chapter of the *Command Line Interface Reference* for detailed information on using this command.

Clearing Statistics and Counters