



HD RAID Disk Configuration Mode Commands

The HD RAID Disk Configuration Mode is used to configure RAID settings on the VPC-DI platform.

Command Modes

Exec > Global Configuration > HD RAID Disk Configuration

configure > hd raid > disk

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-hd-raid-disk) #
```



Important

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

- [do show, on page 1](#)
- [end, on page 2](#)
- [exit, on page 2](#)
- [ncq, on page 2](#)
- [read-ahead, on page 3](#)

do show

Executes all **show** commands while in Configuration mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description

do show

Usage Guidelines

Use this command to run all Exec mode **show** commands while in 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.

end

**Caution**

There are some Exec mode **show** commands which are too resource intensive to run from Config mode. These include: **do show support collection**, **do show support details**, **do show support record** and **do show support summary**. If there is a restriction on a specific **show** command, the following error message is displayed:

```
Failure: Cannot execute 'do show support' command from Config mode.
```

end

Exits the current configuration mode and returns to the Exec mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description**end****Usage Guidelines**

Use this command to return to the Exec mode.

exit

Exits the current mode and returns to the parent configuration mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description**exit****Usage Guidelines**

Use this command to return to the parent configuration mode.

ncq

Disables Native Command Queuing (NCQ). This command is applicable only for VPC-DI.

Product

All

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > HD RAID Configuration > Disk Configuration

configure > hd raid > disk

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-hd-raid-disk)#
```

Syntax Description**ncq****ncq****ncq** (VPC-DI only): Disables Native Command Queuing for all disks. Default: Enabled**Usage Guidelines**

Native Command Queuing is a technology designed to improve performance and reliability of SATA hard disks by allowing the disk to group commands in order of processing efficiency.

This setting persists after a card reload or chassis reboot.

read-ahead

Configures the read ahead buffer size for individual disks. This command is applicable only for VPC-DI.

Product

All

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > HD RAID Configuration > Disk Configuration

configure > hd raid > disk

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-hd-raid-disk)#
```

Syntax Description**read-ahead** *kilobytes***read-ahead** *kilobytes*

read-ahead *kilobytes* (VPC-DI only): Sets the size of data in KB from 128 to 32768 KB that will be read beyond the block of data that was requested. Default: 128 KB

**Note**

This setting applies for individual disks only. A separate read-ahead command is available to configure the read ahead buffer size for disks which are part of a RAID array. Refer to the *HD RAID Configuration Mode* chapter for more information.

Usage Guidelines

Use this command to tune the performance of disks used within the system.

This parameter value persists after a card reload or chassis reboot.

read-ahead