# 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.

**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.