



# 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 2
- [end](#), on page 3
- [exit](#), on page 4
- [ncq](#), on page 5
- [read-ahead](#), on page 6

# do show

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

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**Syntax Description**

**do show**

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**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.
```

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# end

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

<b>Product</b>	All
<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>end</b>
<b>Usage Guidelines</b>	Use this command to return to the Exec mode.

# exit

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

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**Product** All

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**Privilege** Security Administrator, Administrator

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**Syntax Description** `exit`

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**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.

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**Command Modes**

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**configure > hd raid > disk**

Entering the above command sequence results in the following prompt:

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

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**Syntax Description**

**ncq**

**ncq**

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

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**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.

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**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)#
```

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**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




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**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.

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**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.