

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).

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- end, on page 2
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- 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

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```
[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

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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.