

# How to disable NCQ

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# Introduction

This article provides a quick setting about disabling hard drives NCQ (Native Command Queuing).

## Contents

### Part 1: Disable one hard drive

1. For **QSAN** controllers, the default NCQ function is enabled.

Slot	WWN	Size (GB)	VG name	Status	1	2	Write cache	Standby	Readahead	Command queuing	Speed
1	2034001378a8a15a	76		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s
2	2005001378000004	74		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s
3	2003001378000009	74		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s

2. In **“Physical disk”** item, choose one FREE disk, for example, physical drive 1, move mouse to the button under the **“Command queuing”** column, and click the icon, **“Enabled”**. The **“Set property”** icon will pop up.

Slot	WWN	Size (GB)	VG name	Status	1	2	Write cache	Standby	Readahead	Command queuing	Speed
1	2034001378a8a15a	76		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s
2	2005001378000004	74		Good	FR		Enabled	Disabled	Enabled	Set property	1.5Gb/s
3	2003001378000009	74		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s

Free disks • Global spares • Dedicated spares

3. Move mouse to the selection bar next to **“Command queuing”** to change the status to **“Disabled”**, and make sure by clicking **“Confirm”** button.

Slot 1 :

Write cache : Enabled

Standby : Disabled

Readahead : Enabled

Command queuing : Disabled

Confirm

4. Return to **“Physical disk”** item to make sure **“Command queuing”** of the first disk is **“Disabled”**.

Slot	WWN	Size (GB)	VG name	Status	1	2	Write cache	Standby	Readahead	Command queuing	Speed
1	2034001378a8a15a	76		Good	FR		Enabled	Disabled	Enabled	Disabled	1.5Gb/s
2	2005001378000004	74		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s
3	2003001378000009	74		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s

## Part 2: Disable all member hard drives of VG/RG

1. Move mouse to the selection bar next to **“Command queuing”** to change the status to **“Disabled”** when creating a VG/RG.
2. Click **“Next >>”** button.

Name : VG1  
 RAID level : RAID 0  
 RAID PD slot : 1 2  
 Write cache : Enabled  
 Standby : Disabled  
 Readahead : Enabled  
 Command queuing : Enabled

Enabled  
 Disabled

<< Back Next >>

3. Make sure by clicking the **“Confirm”** button.

Create VG1 : RAID 0  
 RAID width : 2  
 RAID copy : 1  
 RAID row : 1  
 RAID PD slot : 1 2

<< Back Confirm

4. Return to **“Physical disk”** item, and make sure that the **“Command queuing”** of all VG/RG members are **“Disabled”**.

Slot	WWN	Size (GB)	VG name	Status	1	2	Write cache	Standby	Readahead	Command queuing	Speed
1	2034001378a8a15a	76	VG1	Good	RD		Enabled	Disabled	Enabled	Disabled	1.5Gb/s
2	2005001378000004	74	VG1	Good	RD		Enabled	Disabled	Enabled	Disabled	1.5Gb/s
3	2003001378000009	74		Good	FR		Enabled	Disabled	Enabled	Enabled	1.5Gb/s



### Caution

If some hard drives of NCQ status conflict between **“Physical disk”** and **“VG/RG”** creation, the setting in **“VG/RG”** creation would be the final status.

## Applies to

- All **QSAN** controllers FW (20081212\_1700)

