

# **HighPoint RAID Management Command Line Interface Guide**

*HighPoint*

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# Introduction to the HighPoint Command

## Line Interface

The HighPoint CLI (Command Line Interface) is a non-graphical utility that configures and manages HighPoint RAID controllers via a command line. It is ideal for systems where an X Window system is not configured, and the RAID Management GUI cannot be used.

## Supported Operation Systems

This release of the CLI utility is limited to FreeBSD operating systems.

## Installing the HighPoint CLI on FreeBSD

Before installation, you must log on as root.

Two files are needed for installation:

```
hptsvr-3.12.tbz
hptraidconf-2.2.tbz
```

Put the two files to some directory and run following commands:

```
# pkg_add hptsvr-3.12.tbz
# pkg_add hptraidconf-2.2.tbz
```

The following files will be installed/configured:

/usr/bin/hptsvr	- service executable
/etc/hptcfg	- service config file
/usr/local/etc/rc.d/hptdaemon.sh	- service control script
/usr/bin/hptraidconf	- the CLI executable
/usr/share/hpt/*	- other support files

Before running the HighPoint CLI , you must have the proper driver loaded, and HighPoint RAID Management Service (**hptsvr**) run on the system.

Check [www.highpoint-tech.com](http://www.highpoint-tech.com) for the latest software versions and update information.

### Note:

You cannot run HighPoint RAID management GUI and CLI at same time on a system.

## Running HighPoint CLI

You can run the HighPoint CLI software two ways:

- Entering commands at the CLI prompt
- Entering a string of single commands with screen output

### Using the CLI prompt:

You can enter commands at the main prompt and view the output on-screen.

#### To use the HighPoint CLI prompt, follow these steps:

- 1 Enter the following command at the shell prompt:

```
# hptraidconf
```

- 2 Enter the username and password to log on to the CLI.

**Note:** The default username is **RAID** and the default password is **hpt**. You can change the password using **'user'** command.

After successfully logging in, the main prompt of the CLI will be displayed:

```
HighPoint CLI>
```

Commands are entered at the CLI prompt. The **CLI Command Reference** section discusses these commands in detail (see page 4).

### Using a single command with output

You can enter a complete command with parameters at the shell prompt and receive one output result on the screen at a time.

#### Syntax

```
hptraidconf {command} [options] {username} {password}
```

#### Example

```
# hptraidconf query controllers RAID hpt
```

Will display information of the detected controllers.

#### Note:

In shell command line mode, you need to specify the username and password in addition to the normal command in interactive mode. For example, if you want to query all the information of the physical devices, in the command line mode, you need to enter the complete query command at the shell

prompt (assume the default user name **RAID** and default password **hpt** is used):

```
# hptraidconf query devices RAID hpt
```

While in interactive mode, you need only enter the following command at the CLI prompt. The last two parameters, user name and password have been omitted:

```
HighPoint CLI> query devices
```

# Conventions

The following conventions are used through this guide:

- **Bold font** is used for what you type on the command line and for the screen output.
- In commands, braces {} around an item indicate that it must be specified.
- In commands, square brackets [] around an item indicate that it is optional.
- In commands, braces with pipes inside {|||} indicate you must specify one option among multiple items.
- In commands, square brackets with pipes inside [|||] indicate you can either specify one option or more options.
- Whenever you type a parameter with a space, it should be enclosed with double quotation marks "".

# CLI Command Reference

This chapter discusses the various HighPoint CLI commands: Query, Create, Delete, Rename, Rebuild, Device, Verify, Task, Rescan, Events, Reboot, User, Mail, Help and Exit.

## Warning:

Operations under the Create/Delete commands may destroy data stored in the disks, and the lost data can never be recovered. So you should take special care when executing these commands. The CLI utility will not prompt before each operation is committed.

## Query Commands

### Syntax

- query controllers
- query devices
- query devices {device\_id}
- query arrays
- query arrays {array\_id}

### query controllers

This command reports controller information.

### Example

HighPoint CLI> query controllers

Typical output:

ID	Channels	Name
1	8	RocketRAID 182x SATA Controller

The output indicates that **controller 1** is a **RocketRAID 182x SATA Controller** with **8 channels**, which supports a maximum of 8 SATA hard disks.

## query devices

This command presents status of all the physical devices to the controllers. It provides a list of device ID, capacity, model number, status and array attributes. Each device's status will be listed as one of the following: NORMAL, DISABLED, SPARE, and BOOT. The BOOT status means the disk has been set to boot disk in the controller BIOS.

### Note:

A device ID is a string used to represent a disk. It is in the format "controller/port" for SATA controllers, and "controller/channel/device" for PATA controllers. e.g. 1/2 represents the disk on controller 1 port 2; 1/2/1 represents the disk on controller 1 channel 2 master disk; 1/2/2 represents the disk on controller 1 channel 2 slave disk.

### Example

```
HighPoint CLI> query devices
```

Typical output:

ID	Capacity(GB)	Model Number	Status	Array
1/2	250.000	WDC WD2500JD-00GBB0	SPARE	Single
1/3	80.000	Maxtor 6Y080M0	NORMAL	myraid1
1/5	250.000	WDC WD2500JD-00GBB0	NORMAL	myraid1
1/8	50.000	Maxtor 7B250S0	NORMAL	Single

## query devices {device\_id}

This command presents information for the specified device.

### Example

```
HighPoint CLI> query devices 1/2
```

Typical output:

```
Model Number: WDC WD2500JD-00GBB0
Capacity: 250.000GB
Status: NORMAL
Array: myraid1
Write Cache: Enabled
Read Ahead: Enabled
```

## query arrays

This command lists information for all configured arrays. It will list each array's ID, capacity, RAID level, and status information.

**Note:** An array ID is generally represented by number or set of numbers. For RAID1/0 arrays; each sub-array will be represented by an ID in the format "1-1", "1-2". An array ID is used in the command line where an array needs to be specified.

### Example

```
HighPoint CLI> query arrays
```

Typical output:

ID	Capacity(GB)	Type	Status	BS (K)	Progress	Name
1	80.0	RAID0	BOOT	64	--	myraid
2	248.83	RAID5	NORMAL	64	--	data
1/8	120.02	Spare	NORMAL	--	--	--

## query arrays {array\_id}

This command will present information of each disk of a specified array.

### Example

```
HighPoint CLI> query arrays 1
```

Typical output:

ID	Capacity(GB)	Type	Model Number
1/1	250.0	RAID5	WDC WD2500JD-00GBB1
1/2	250.0	RAID5	WDC WD2500JD-00GBB2
1/3	250.0	RAID5	Maxtor 7B250S222

## Create Command

This command allows you to create a new RAID array, or add a spare disk, or expand/migrate an existing array.

### Syntax

```
create {RAID0|RAID1|RAID10|RAID5|JBOD|spare} [create-options]
```

## Parameters

You can specify one or more create options for this command, separated by space. The options can be typed in any order.

**disks=** specifies member disks which will compose a new array, e.g. disks=1/1, 1/2, disks=\*. The character \* means all available drives on the controller when you have only one supported controller installed.

**init=** specifies initialization option (foreground or background). The default option is create-only. The create-only option is applicable for all the RAID types, which is to create an array without any initialization process. Initialization is needed for redundant arrays to provide data redundancy.

**name=** specifies the name for the array being created.

If the option is omitted, the utility will assign a default name for the array.

**src=** specifies an existing array to be expanded/migrated. All data on the source array will be redistributed online to the target array. If this parameter is omitted, a new array is created.

**capacity=** specifies the capacity, in size of MB, for the target array.

## Examples

- **HighPoint CLI> create RAID0 name=myraid0 disks=1/3,1/4**

This command instructs the system to create an RAID 0 array using the disks attached to controller 1 channels 3 and 4, and name it **myraid0**.

- **HighPoint CLI> create RAID5 disks=\* src=1**

This command instructs the controller to expand an existing array using all the available disks to a **RAID5** array.

- **HighPoint CLI> create spare disks=1/4**

This command indicates that you will set the disk on controller 1 channel 4 to be a spare disk.

## Delete Command

This command allows you to delete an existing RAID array or remove a

spare disk. After deletion, the original array and all data on it will be lost. All the member disks will be listed as available single disks.

### Syntax

```
delete {array_or_spare_ID}
```

### Examples

■ **HighPoint CLI> delete 1/3**

This command indicates to remove the spare disk on controller 1 channel 3.

■ **HighPoint CLI> delete 1**

This command indicates to delete the array whose id is “1”. You can query the array ID before the deletion.

## Unplug Command

This command allows you to remove an array or disk from a running system without shutting down.

### Syntax

```
unplug {array_id or device_id}
```

### Example

**HighPoint CLI> unplug 1**

This command instructs the controller to disconnect the array “1” and then you can disconnect the drives safely.

## Rename Command

This command allows you to rename the specified array and type a new name for the array.

### Syntax

```
rename {array_id} {new_name}
```

### Example

**HighPoint CLI> rename 1 hptraid**

This command instructs the controller to rename the array “1” to **hptraid**.

## Init Commands

You can use init commands to initialize disks or arrays. A drive must be initialized first before being used to create arrays.

**Syntax**

- `init {device_id}`
- `init {array_id} {start|stop}`

**init {device\_id}**

This command initialize a disk for first use on the controller.

**Example**

```
HighPoint CLI> init 1/3
```

This command instructs the controller to initialize the disk on controller 1 channel 3. All data on the disk will be destroyed.

**init {array\_id} {start|stop}**

This command starts/stops initialization process on a redundant array.

**Example**

```
HighPoint CLI> init 1 stop
```

This command instructs the controller to stop initialization process on array 1. You can continue the initialization at a later time.

## Rebuild Commands

You can use rebuild commands to rebuild a RAID1, RAID1/0 or RAID5 array when it is critical or broken.

**Syntax**

- `rebuild {array_id} {device_id}`
- `rebuild {array_id} {start|stop}`

**rebuild {array\_id} {device\_id}**

This command allows you to add the specified disk to a broken array and rebuild it.

**Example**

```
HighPoint CLI> rebuild 1 1/3
```

This command instructs the controller to add the disk “1/3” to rebuild the array “1”. You can use the query commands first to verify the device ID and the array ID information before the rebuild command.

## rebuild {array\_id} {start|stop}

This command allows you to start or stop the rebuilding process on the specified array. After you stopped a rebuilding process, you can resume it at a later time by the rebuild start command.

### Examples

- **HighPoint CLI> rebuild 1 start**

This command starts the rebuilding process on the array “1”.

- **HighPoint CLI> rebuild 1 stop**

This command stops the rebuilding process on the array “1”.

## Verify Command

### Syntax

- **verify {array\_id} {start|stop}**

This command starts or stops the verify process on the specified array.

### Examples

- **HighPoint CLI> verify 1 start**

This command starts to verify the array “1”.

- **HighPoint CLI> verify 1 stop**

This command stops the verify process on the array “1”.

## OCE/ORLM Command

### Syntax

- **OCE/ORLM {array\_id} {start|stop}**

This command starts or stops the OCE/ORLM process on the specified array. The OCE/ORLM process should be first created via **create** command.

### Examples

- **HighPoint CLI> OCE/ORLM 1 stop**

This command stops OCE/ORLM process on array “1”. You can resume the process at later time.

## Device Command

This command enables or disables the optional device features. This command is only available when the controller driver supports setting device parameters and the selected disk supports the specified feature.

### Syntax

```
device {device_id} {e|d} {wc|ra|tcq|ncq|smart}
```

### Parameters

<b>e</b>	enable a feature
<b>d</b>	disable a feature
<b>wc</b>	write cache
<b>ra</b>	read look-ahead
<b>tcq</b>	Tagged Command Queuing (TCQ)
<b>ncq</b>	Native Command Queuing (NCQ)
<b>smart</b>	S.M.A.R.T. feature

### Examples

- **HighPoint CLI> device 1/4 e wc**

This command will enable write cache on the disk on controller 1 channel 4.

- **HighPoint CLI> device 1/5/1 d wc**

This command will disable write cache on the disk on controller 1 channel 5.

## Array Command

This command will set optional array features. Currently, only cache policy setting for RAID5 is supported.

### Syntax

```
array {array_id} cp={WB|WT}
```

### Example

```
HighPoint CLI> array 1 cp=WB
```

This command will set the cache policy to write back on array 1.

## Rescan Command

This command will rescan all of the physical devices attached to the RAID controller.

### Syntax

rescan

### Example

HighPoint CLI> rescan

## SAF-TE Commands

The SAF-TE command is used to manage SAF-TE enclosures. This command only works when you have SAF-TE enclosure information properly configured in HighPoint RAID management service.

To use HighPoint RAID management service with SAF-TE enclosures, a customized configuration file (`/etc/i2csep.conf`) is needed. By default no config file is setup; you can copy one of the provided configuration file under `/usr/share/hpt/hptsvr-3.11/ (*.conf)` to `/etc/i2csep.conf` to enable support for SAF-TE enclosures. The RAID management service (`hptsvr`) needs to be restarted when the configuration file is updated.

### Syntax

- SAF-TE
- SAF-TE set {property\_index} value

## SAF-TE

This command will display the enclosure status information.

### Example

HighPoint CLI> SAF-TE

Typical output:

Index	Name	Value	Status	Editable
0	Temperature	38		False
1	Fan Speed	2960		False
2	Temperature Limit	60		True

## SAF-TE set {property\_index} value

This command updates the value of a specified enclosure property.

### Example

## Events Commands

The CLI system will automatically record three types of events: Information (shortened to “Inf”), Warning (shortened to “War”), and Error (shortened to “Err”) on the screen output. These commands allow you to query, save, or clear the logged events.

### Syntax

- events
- events clear
- events save {file\_name}

### events

This command will display a list of all the logged events.

### Example

```
HighPoint CLI> events
```

Typical output:

ID	Type	Time	Description
1	Inf	[10/12/2004 15:26:21]	User RAID (from 127.0.0.1) exited from system.
2	Inf	[10/12/2004 15:26:30]	User RAID (from 127.0.0.1) logged on system.
3	Inf	[10/12/2004 15:26:34]	Array 'myraid' verifying started.
4	War	[10/12/2004 15:31:35]	Array 'myraid' verifying aborted.
5	Inf	[10/12/2004 15:31:36]	User RAID (from 127.0.0.1) exited from system.
6	Inf	[10/12/2004 15:32:15]	User RAID (from 127.0.0.1) logged on system.
7	Inf	[10/12/2004 15:32:51]	User RAID (from 127.0.0.1) exited from system.
8	Inf	[10/12/2004 15:37:00]	User RAID (from 127.0.0.1) logged on system.

### events clear

This command will clear all the logged events.

### Example

```
HighPoint CLI> events clear
```

### events save {file\_name}

This command will save all the logged events as a plain text file.

### Example

**HighPoint CLI> events save /tmp/raidlog.txt**

This command will save all the events to /tmp/raidlog.txt.

## Mail Commands

### Syntax

- mail recipient
- mail recipient add {recipient\_name} {mail\_address} [Inf|War|Err]
- mail recipient delete {recipient\_name}
- mail recipient test {recipient\_name}
- mail recipient set {recipient\_name} {Inf|War|Err}
- mail get server
- mail set server {server\_address} {port} {status}
- mail set server {a|p|s|m} {value}

### mail recipient

--- List all the mail recipients

### Example

**HighPoint CLI> mail recipient**

Typical output:

ID	Name	Mail Address	Notify Types
1	RAID	admin@somecompany.com	Information, Warning, Error.
2	Kate	kate@somecompany.com	Warning, Error.

### mail recipient add {recipient\_name} {mail\_address} [Inf|War|Err]

--- Add a not exist recipient

### Example

**HighPoint CLI> mail recipient add admin admin@somecompany.com Inf War Err**

This command will setup the RAID system to send mail to [admin@somecompany.com](mailto:admin@somecompany.com) about all logged events.

**mail recipient delete {recipient\_name}**

--- Delete an exist recipient.

**Example**

```
HighPoint CLI> mail recipient delete Ferry
```

**mail recipient test {recipient\_name}**

--- Send a testing mail to specified recipient.

**Example**

```
HighPoint CLI> mail recipient test RAID
```

**mail recipient set {recipient\_name} {Inf|War|Err}**

--- Set the notification type for a recipient.

**Example**

```
HighPoint CLI> mail recipient set admin War Err
```

**mail get server**

--- Print the SMTP server information

**Example**

```
HighPoint CLI> mail get server
```

Typical output:

Server Address	Port	Status	Mail from
mail.somecompany.com	25	disabled	admin@somecompany.com

**mail set server {server\_address} {port} {status} {from\_address}**

--- Use this command to configure mail server settings.

{server\_address} – SMTP server address

{port} – port, generally 25

{status} – status, 'e' for enable or 'd' for disable

{from\_address} – mail from address

**Examples:**

```
HighPoint CLI> mail set server mail.somecompany.com 25 e admin@somecompany.com
```

```
HighPoint CLI> mail set server mail.somecompany.com 25 d admin@somecompany.com
```

**mail set server {a|p|s|m} {value}**

--- Use this to separate set your mail server value

**Parameters**

a – SMTP server address

p – port, generally 25

s – status, ‘e’ for enable or ‘d’ for disable

m – mail from address

**Examples:**

```
HighPoint CLI> mail set server a smtp.somecompany.com
```

--- Change the server address

```
HighPoint CLI> mail set server p 25
```

--- Change the port

```
HighPoint CLI> mail set server s d
```

--- Disable mail notification

```
HighPoint CLI> mail set server s e
```

--- Enable mail notification

## Task Commands

When an array requires that it be regularly verified or rebuilt, you can use the task commands to automatically execute this process in the background. As long as you have the appropriate privileges, you can add new tasks, and modify or delete existing tasks.

**Syntax**

- task
- task rebuild {array\_id} {name=} {once|daily|monthly|weekly} {day} {interval} time=mm/dd/yyyy, mm/dd/yyyy, hh:mm:ss
- task verify {array\_id} {name=} {once|daily|monthly|weekly} {day}

```
{interval}time=mm/dd/yyyy, mm/dd/yyyy, hh:mm:ss{login_user_name}
```

- task smart {device\_id} {m|h} {interval}
- task delete {task\_id}
- task enable {task\_id}
- task disable {array\_id}

## task

This command displays detailed information about all scheduled tasks.

### Example

**HighPoint CLI> task**

This command displays the current background tasks.

ID	Task Description	Start-Date	End-Date	Time	S
1	Rebuild Array_1(created by RAID)	10/08/2004	--/--/----	10:20:30	E

## task rebuild {array\_id} {once|daily|weekly|monthly} {day} {interval}

### time=mm/dd/yyyy, mm/dd/yyyy, hh:mm:ss

This command allows you to schedule the frequency by once, daily, weekly or monthly and the detailed time range to rebuild a specified array. The first **mm/dd/yyyy** specifies the task start date, while the second **mm/dd/yyyy** specifies the task end date.

#### Note:

When you add a task to rebuild a selected array **once**, the parameter **{day}** should be omitted.

### Examples

- **HighPoint CLI> task rebuild 1 once time=10/8/2005, 12:35:46**

This command adds a task schedule named **myraid1** to rebuild the array "1" at **12:35:46** on **10/8/2005**. The rebuild frequency is set to **once**.

- **HighPoint CLI> task rebuild 4 daily 2 time=2/8/2005, 2/22/2005, 13:49:58**

This command adds a task schedule named **myraid4** to rebuild the array "4" at **13:49:58** every **2** days from **2/8/2005** to **2/22/2005**.

- **HighPoint CLI> task rebuild 3 weekly 2 3 time=2/8/2004, 2/22/2008, 13:49:58 RAID""**

This command adds a task schedule named **myraid3** to rebuild the array "3" at **13:49:58** on **Monday** (the **2nd** day in a week) every **3** weeks from **2/8/2004** to **2/22/2008**.

- **HighPoint CLI> task rebuild 2 monthly 3 4 time=2/8/2004, 2/8/2006, 12:30:33**

This command adds a task schedule to rebuild the array "2" at **12:30:33** on the **3rd** day of a month every **4** months from **2/8/2004** to **2/8/2006**.

**task verify {array\_id} {name=} {once|daily|weekly|monthly} {day}**

**{interval} time=mm/dd/yyyy, mm/dd/yyyy, hh:mm:ss**

This command allows you to schedule a verify task. The usage of this command is the same as adding a rebuild task schedule.

**task smart {device\_id} {m|h} {interval}**

This command allows you set periodic S.M.A.R.T. status checking on a device.

#### **Example**

**HighPoint CLI> task smart 1/2 m 30**

This command will instruct the controller to check S.M.A.R.T. status on controller 1 channel 2 every 30 minutes.

**task delete {task\_id}**

This command allows you to delete a scheduled task. You can query the task ID by **task** command.

#### **Example**

**HighPoint CLI> task delete 2**

This command will delete the task "2".

**task enable {task\_id}**

This command will enable a disabled task.

#### **Example**

**HighPoint CLI> task enable 1**

This command will enable the disabled task "1".

**task disable {task\_id}**

This command will disable a scheduled task manually.

### Example

**HighPoint CLI> task disable 1**

This command will disable the scheduled task "1".

## User Commands

### Syntax

- user
- user add {name} {password}
- user delete {name}
- user set password {name} {password}
- user set privilege {name} {privileges}
- user unset privilege {name} {privileges}

### Parameters

Privileges can be one or more of the following, separated by space:

<b>MA</b>	manage arrays
<b>CA</b>	create arrays
<b>DA</b>	delete arrays
<b>RA</b>	rename arrays
<b>RB</b>	rebuild arrays
<b>VA</b>	verify arrays
<b>IA</b>	initialize arrays
<b>DU</b>	duplicate arrays
<b>MS</b>	manage spare disk
<b>RS</b>	reboot server
<b>MD</b>	device management
<b>MU</b>	manage user
<b>SM</b>	set mail server
<b>SS</b>	set server system
<b>CE</b>	clear events
<b>TM</b>	task management

### user

This command will list all the valid users with their management privileges

and descriptions.

**Note:**

The default user **RAID** owns complete privileges and can assign different privileges to other users.

**Example**

HighPoint CLI> user

Typical output:

```
User Name MA CA DA RA RB VA IA DU MS MU SM RS CE MD SS TM Description
-----
Hello2    MA CA DA RA RB VA IA DU -- -- -- RS CE MD SS TM Created by RAID
RAID      MA CA DA RA RB -- IA DU MS MU SM RS CE MD SS TM Automatically created
                                                user for management
```

**user add {name} {password}**

This command allows you to add a new user.

**Example**

HighPoint CLI> user add John 000000

This command will add a new user named **John**. The password of this user is **000000**.

**user delete {name}**

This command will delete an existing user. Note the current user logged on cannot be deleted.

**Example**

HighPoint CLI> user delete John

This command will delete the user named **John**.

**user set password {name} {password}**

This command will change a user's password.

**Example**

```
HighPoint CLI> user set password Jerry 000000
```

This command will change **Jerry**'s password to **000000**.

### **user set privilege {name} {privileges}**

This command will set privileges for a specified user.

#### **Example**

```
HighPoint CLI> user set privilege Jerry MA MS
```

This command will let **Jerry** have privileges to manage arrays and spare disks.

### **user unset privilege {name} {privileges}**

This command will unset privileges for a specified user.

## **Help Commands**

#### **Syntax**

- help
- help {command}

### **help**

-- Show generic help about this utility.

#### **Example**

```
HighPoint CLI> help
```

### **help {command}**

-- Show help about a specific command.

#### **Example**

```
HighPoint CLI> help create
```

## **Exit Command**

#### **Syntax**

```
exit
```

Exit from the interactive mode and return to the shell.

## Appendix A Revision History

<b>Version</b>	<b>Date</b>	<b>Updates</b>
2.2	2005/11/25	Add RAID50 support
2.1	2005/9/2	Use static link.
2.0	2005/6/21	First release for RR2220 adapter