VA Virtual Front Panel Commands

July, 2002

Command	Function
help	Displays a description of each command.
setup	Performs Virtual Front Panel configuration.
dsp	Displays subsystem status.
cfg	Performs subsystem configuration (LUN creation).
mgr	Performs subsystem management operations.
fmt	Performs an subsystem format.
rbld	Performs rebuild operations.
recover	Performs NVRAM recovery operations.
secure	Performs security operations.
log	Displays Logs
scsi	Performs SCSI command for provided CDB.

Usage Notes

- To maintain consistency with earlier versions of the VFP, all commands can be prefaced with "vfp".
- For help with a specific command, use the -? Option. For example, setup -?
- For command recall, type “<” or “>”.
- Several of the vfp commands require multiple options. Use the options in the order in which they appear in this reference.

Command	Options and Arguments	Description
setup	-e {on | off}	**-e**: Sets character echo
	-r <value>	**-r**: Sets the number of rows: <value>: range 5 – 1000
	-c <value>	-**c**: Sets the number of columns: <value>: ranger 40 - 8000
	-b <int>	-**b**: Sets baud rate <int> : 0, 1, 2, or 3 for 9600, 19200, 38400, 57600 Note: A firmware reset will restore the default value of 9600.
dsp	dsp (no argument follows)	Displays general information about the subsystem.
	-c [m/c1 | m/c2]	**-c:** display controller information: m/c1: controller 1, m/c2 controller 2
	-d [fruLocation]	**-d:** display drive information: [fruLocation] m/d#
	-L [LUN ID]	**-L**: display LUN information (default for all existing luns). [LUN ID]: specify a requested LunID
	-s	**-s**: display subsystem settings
	-e	**-e**: enclosure information
	-f	**-f**: list of discovered FRUs

cfg	cfg -L <LUN ID> -a <capacity> [{G|g}|{K|k}] –g <RG Id>	**To Create a LUN requires three parameters, LUN ID, capacity and RD Id.** **-L** <LUN ID>: specify LUN ID to be created. **-a** <capacity>: specify LUN capacity. Capacity is default to MB. If followed by '**K**' or '**k**', the capacity is in **kilobytes** and must be a multiple of **512**. If followed by '**G**' or '**g**', the capacity is in **gigabytes**. -g <RG ID>: redundancy group id. For VA 7100 set to 1, for VA 7400 set to 1 or 2. For valid number of LUNs to create, check **dsp –s** for CREATE LUN LIMIT.
	cfg -L <LUN ID> -d	**-L** followed by **–d**: deletes LUN, no need to specify capacity, just LUN ID.

mgr	-s {shut | start}	**-s**: Shutdown or restart the disk array
	-R {full | partial}	**-R**: Reset the disk array
	-L <loop id> -c {1|2} -hp {1|2}	**-L**: Set FC port loop ID for host port (-hp) on specified controller (-c).
	-t {1 | 2 | 4} –c {1|2} -hp {1|2}	**-t**: Set the topology for host port (-hp) on specified controller (-c). Valid Arguments: **1** - Private Topology **2** - Public Topology **4** - Direct Fabric Attached Topology.
	-S {1 | 2} –c {1 | 2} -hp {1|2}	**-S**: Set FC port speed for host port (-hp) on specified controller (-c). Valid Arguments: **1** - 1 GBit/sec Data Rate **2** - 2 GBit/sec Data Rate
	-os {hpux | nt | win2k | linux | solaris | aix | netware | generic | tru64 | openVMS | mpe | solarisCluster} –c {1 | 2} -hp {1|2}	**-os**: Set host behavior for host port (-hp) on specified controller (-c).
	-B {autoraid | raid1}	**-B:** sets array RAID level (AutoRaid | RAID 1).
	-O { on | off }	-**O**: set enable optimize policy on/off.
	-q <queue full threshold> –c {1 | 2} -hp {1|2}	-**q**: set queue full threshold for host port (-hp) on specified controller (-c). Valid values 0 to 4096.
	-ds { on | off }	-**ds**: set disable secondary path presentation The -ds option determines whether the array makes the non-optimal path to LUNs visible to hosts. When set to ON, secondary path presentation is enabled and all LUNs are “visible” through all ports on all controllers. When set to OFF, each LUN will be “visible” only on the controller that is the optimal controller for that LUN. The optimal controller is the one associated with the redundancy group of which the LUN is a part.
	-p {on | off }	**-p**: Enable/disable prefetch.
	-V <Revision>	**-V**: Set volume set revision. Valid arguments: 1 – For HP01, HP02, HP11, HP13 2 – For HP14, HP15 and greater
fmt	No options	Perform array format (will destroy all user data). User will be prompted with a **yes/no**. The word **‘yes’** must be entered completely. Otherwise the format command will be canceled.

<table>
<tr><th></th><th></th><th></th></tr>
<tr><td>rbld</td><td>-p

-a {on | off}</td><td>-p: Displays status/progress of a subsystem rebuild.
-a: enables or disables autorebuild</td></tr>
<tr><td>recover</td><td>No options

-s

-ps {on | off}</td><td>Perform a recover process. Will ask for user’s verification to proceed.
-s: returns the recoverability status or the disk array, as well as the status of the recovery progress.
-ps: Recover with parity scan set to either on or off.</td></tr>
<tr><td>secure</td><td>-R

-e

-d</td><td>-R: Resets the password to AUTORAID.
-e: enables security.

-d: disables security.</td></tr>
<tr><td>log</td><td>-p [number of events] [-seq <start sequence number>]

-ps [number of events] [-seq <start seqence number>]

-pc [number of events] [-seq <start seqence number>]

-clear</td><td>-p: Display a given number of events starting with the specified sequence number.
-ps: Display a given number of significant events (stored in page2) starting with the specified sequence number.
-pc: Display a given number of critical events(stored in page5) starting with the specified sequence number.

Use only the required options with no arguments, e.g. just “log –ps”, will display the first and last sequence number in the log.

If only number of events is omitted, all the corresponding events after the start sequence number will be displayed.
If only start sequence number omitted, the specified number of events will be displayed starting at beginning of the log.

-clear: Clear controller event log</td></tr>
<tr><td>scsi</td><td>-cdb <cdblen> <cdb bytes…> <direction> [-cdbcrc <cdb crc>]
[-lun <lunId>]
[-data <data len> <data bytes…> [-datacrc <data crc>]]</td><td>direction can be: nodata|datain|dataout
Documentation about this interface is available upon request.</td></tr>
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