

# **HP Array Configuration Utility – Command Line Interface (ACU-CLI)**

**for Linux on Itanium-based Systems**

## **Support Notes**

**April 2006**

## ***Update Information***

This document has been updated to include information for the **April 2006 re-release of ACU-CLI** which is included in the HP Integrity Essentials Foundation Pack for Linux - Version 1.0.

## ***Description***

This document provides support notes for the HP Array Configuration Utility - Command Line Interface (ACU-CLI) for Linux on Itanium-based systems. ACU-CLI is an online tool that can be used to manage and configure Smart Array-based storage controllers. ACU-CLI is available from the following HP website as part of the HP Integrity Enablement Foundation Pack for Linux - Version 1.0 Management CD: <http://www.hp.com/go/integritylinux>

## ***Software Version Information***

Current version: 7.47.1.0 (4 Nov 2005)

## ***Supported Configurations***

This is a follow-on release of the ACU-CLI for Linux on Itanium-based systems that incorporates support for the latest Linux distribution updates.

- RHEL 3 (including Update 7)
- RHEL 4 (including Update 3)
- SLES 9 (including Service Pack 3)

The following configurations are supported:

### **Storage controller – HP Smart Array 6402 (A9890A)**

#### **Servers:**

hp server rx1620  
hp server rx2620  
hp server rx4640  
hp server rx7620  
hp server rx8620  
hp server Superdome

#### **Operating systems:**

Red Hat Enterprise Linux 3  
Red Hat Enterprise Linux 4  
SuSE Linux Enterprise Server 9

#### **Storage devices:**

MSA30SB  
MSA30DB

## Storage controller – HP Smart Array P600 (SAS RAID)

### **Servers:**

hp server rx1620  
hp server rx2620  
hp server rx4640  
hp server rx7620  
hp server rx8620

### **Operating systems:**

Red Hat Enterprise Linux 4 (Update 2 or later required)  
SuSE Linux Enterprise Server 9 (Service pack 3 or later required)

### **Storage devices:**

MSA50 (1U 10 drive SAS storage enclosure)

## 2Gb Fibre Channel Host Bus Adapters – A6826A / A7538A

### **Servers:**

hp server rx1620  
hp server rx2620  
hp server rx4640  
hp server rx7620  
hp server rx8620  
hp server Superdome

### **Operating systems:**

Red Hat Enterprise Linux 3  
Red Hat Enterprise Linux 4  
SuSE Linux Enterprise Server 9

### **Storage devices:**

MSA1000  
MSA1500

## Installation Instructions

### **Installation:**

ACU CLI is distributed using Red Hat Package Manager (RPM) packages.

If there is an older version of ACU CLI installed on the system, please use "rpm -e hpacucli" to remove it first. Use "rpm -i <file name>" to install the application.

Please type "man rpm" for other details regarding RPM.

The software resides in /opt/compaq/hpacucli and the executable name is hpacucli which is located in /usr/sbin.

### **Running the ACU-CLI:**

Note: You run hpacucli as root.

To start the application: If /usr/sbin is already added in your path, just type: "hpacucli".

More options can be found by "hpacucli help".

### **Exiting ACU:**

To exit the ACU CLI, type "exit" while at the CLI command console.

## **Availability**

This software is made available on the web and on CDs shipped with the product.

## **Upgrade Recommendation**

Not applicable.

## **System Requirements and Dependencies**

ACU-CLI requires HP Management Base (hpmgmtbase) to be installed on the system. HP Management Base is a package of tools, scripts, and binaries that ensure proper system manageability functionality by providing access to the management processor via the Open IPMI driver.

HP management base packages are distribution specific. They can normally be found on the HP Enablement Kit for Integrity Linux Supplemental CD. Go to [hp.com](http://hp.com) and search for your particular server under download drivers & software.

## **Known Issues and Limitations**

### **1. Logical volume status abnormal after powering down OS on some cell-based systems.**

After a cell-based system is powered off using the Linux command "poweroff" or "halt", the status of logical volumes that have been previously created may show as FAILED. Also you may be unable to delete the logical volume in question.

**Workaround:** Need to use the management processor to power off the HW partition, then power on again.

### **2. Logical volume created on rx2620 doesn't appear on rx7620.**

In some circumstances, logical volumes created on one system do not appear on another system, even after a system reset.

**Workaround:** Need to totally power off the HW partition and then power on again in order to see the logical volume.

### **3. Cannot query the logical volume size using the "create" command.**

The logical volume size cannot be successfully queried using the "create" command.

**Workaround:** None at this time; this issue will be fixed in a future release.

### **4. Migration of logical volume use an unsupported stripe size does not work.**

Attempt to migrate the stripe size of a logical volume to unsupported sizes results in no error message.

**Workaround:** Should only migrate existing striping to supported sizes.

### **5. SSP presented information is lost after SSP state toggles.**

SSP-related information such as unmask or mask is lost after SSP state is changed from off to on state.

**Workaround:** None at this time; this issue will be fixed in future release.

## **6. Rebuild issue when Smart Array 6402 controller is installed in an rx4640 connected to internal volumes.**

ACU-CLI should perform a rescan of the SCSI bus as a result of running "rescan" or "pd show all" commands. This in turn should initiate a rebuild of an array after replacement of a failed drive. The rebuild does not take place as a result of running these commands with the released version.

**Workaround:** Customer can initiate a rescan by exiting and then rerunning ACU CLI, or by rebooting the system.

## **7. CCISS interface/driver reports inaccurate information on logical volumes.**

Under some circumstances, the CCISS driver can show devices that haven't actually been created. When this happens, a number of different devices are reported to the OS, but there is actually only one logical volume.

**Workaround:** Customers should reboot the system after creating a new logical volume.

## **8. OS fails to recognize configuration changes.**

When existing volumes are modified or deleted, or when new volumes are created using ACU-CLI, the operating system will not always be aware of the changes unless the system is rebooted.

**Workaround:** Customers should reboot the system after making changes to existing volumes.

## **9. Using ACU-CLI from two clients at the same time will result in warning messages upon exiting from one of the clients.**

**Workaround:** Use only one instance of ACU-CLI at a time.

## **10. Unexpected LED behavior under some circumstances.**

All LEDs will go "off" if customer performs the following steps:  
ACUCLI> modify led=on  
ACUCLI> pd xxx modify led=off

**Workaround:** There is no workaround. This will be fixed in a future release.

## **Feedback**

For support for ACU CLI or Smart Array controllers, please visit the web at <http://support.hp.com>.

For feedback or suggestions on ACU CLI, please send comments to [acu@hp.com](mailto:acu@hp.com). Please note that support cannot be provided through this address.