

RAID-01 (ciss) B.11.11.0709 Mass Storage Driver Release Notes HP-UX 11i v1

HP Part Number: J6369-90046
Published: September 2007
Edition: 1.0



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This document provides information about the September 2007 release of the RAID-01 bundle.

1 RAID-01 Overview

The RAID-01 bundle contains the `ciss` driver for the HP A9890A, A9891A, and A7143A host bus adapters running on HP-UX 11i v1 platforms. This release includes the following:

- `ciss`: HP-UX driver version B.11.11.07
- `saconfig`: HP-UX Smart Array command line configuration utility version A.01.20
- `sautil`: HP-UX Smart Array command line support utility version A.02.12
- `sainfo`: HP-UX Smart Array information collection script version A.01.06
- `CYBORG.BIN` (controller firmware; v 2.68 for A9890A and A9891A)
- `MAXWELL.BIN` (controller firmware; v 3.58 for A7143A)

1.1 Driver Versions

The following tables list the RAID-01 `ciss` driver version that corresponds to each HP-UX release:

Table 1 A7143A RAID-01 Driver Versions By Release

Release	HP-UX Version	Driver Name/Version	Bundle Name
Application Release 0903	HP-UX 11i v1 (B.11.11)	<code>ciss</code> B.11.11.01	RAID-01
Application Release 1203		<code>ciss</code> B.11.11.02	
Application Release 0604		<code>ciss</code> B.11.11.03	
Application Release 1204		<code>ciss</code> B.11.11.04	
Application Release 0905		<code>ciss</code> B.11.11.05	
Application Release 0603		<code>ciss</code> B.11.11.06	
Application Release 0606		<code>ciss</code> B.11.11.06	
Application Release 0609		<code>ciss</code> B.11.11.06	
Application Release 0706		<code>ciss</code> B.11.11.07	
Application Release 0709		<code>ciss</code> B.11.11.07	

Table 2 A9890A RAID-01 Driver Versions By Release

Release	HP-UX Version	Driver Name/Version	Bundle Name
Application Release 0604	HP-UX 11i v1 (B.11.11)	<code>ciss</code> B.11.11.03	RAID-01
Application Release 1204		<code>ciss</code> B.11.11.04	
Application Release 0905		<code>ciss</code> B.11.11.05	
Application Release 0603		<code>ciss</code> B.11.11.06	
Application Release 0606		<code>ciss</code> B.11.11.06	
Application Release 0609		<code>ciss</code> B.11.11.06	
Application Release 0706		<code>ciss</code> B.11.11.07	
Application Release 0709		<code>ciss</code> B.11.11.07	

Table 3 A9891A RAID-01 Driver Versions By Release

Release	HP-UX Version	Driver Name/Version	Bundle Name
Application Release 1204	HP-UX 11i v1 (B.11.11)	ciss B.11.11.04	RAID-01
Application Release 0905		ciss B.11.11.05	
Application Release 0603		ciss B.11.11.06	
Application Release 0606		ciss B.11.11.06	
Application Release 0609		ciss B.11.11.06	
Application Release 0706		ciss B.11.11.07	
Application Release 0709		ciss B.11.11.07	

2 New and Changed Features in This Release

2.1 New Features

The following feature is new with version B.11.11.0709 of RAID-01:

- **Changing the Expand Priority**

To change the expand priority of the controller to low, medium, or high, use the command:
`saconfig /dev/cissX -e [low|medium|high]`

Where:

`cissX` The device file for the Smart Array controller.
`[low|medium|high]` The priority level of the capacity expansion.

When you create a logical drive after the controller configuration was cleared, or after the last logical drive was deleted, the expand priority of the controller will default to “medium.” You can use `saconfig` with the `-e` option to change the expand priority.

The expand priority setting applies to both extending the capacity of a logical drive and expanding the capacity of an array. For more information about these functions, see the *HP Smart Array 6400 Series Controller Support Guide* at:

<http://docs.hp.com/en/netcom.html#Smart%20Array%20%28RAID%29>

3 Problems Fixed in This Version

There are no defects or fixes included in RAID-01 at the time of this publication. See the “Related Information” section of this document for information on where you can find the latest information about RAID-01 and HP Smart Array controllers.

4 Known Problems and Limitations

This section provides a list of problems and limitations as known to HP at time of publication. If workarounds are available, they are included.

- **Cabling Issue**

Each channel has two connectors (one internal and one external), but only one connector can be used per channel at any given time. If the internal and external connectors on the same channel are both connected to the storage and boot is attempted, the controller will fail.

Corrective Action: Shut down and power off the system, fix the cabling issue, and power on the system.

- **Automatic Hot-Plug Issue**

The HP Smart Array Controllers do not automatically detect hot-plug of internal disks.

Corrective Action: Run the `saut il` command with the `scan` option after replacing a physical disk.

5 Compatibility and Installation Requirements

This section describes the compatibility information and installation requirements for this release. For specific installation instructions, refer to the *HP Smart Array 6400 Series Controllers Support Guide*.

5.1 Required Software

- **OS Platform and Version Compatibility**

Before installing the Smart Array Controller software, you must install a supported HP-UX Operating System. To determine the supported HP-UX versions for your system, see the *HP Smart Array RAID Controllers Support Matrix* at:

<http://docs.hp.com/en/netcom.html#Smart%20Array%20%28RAID%29>

- **Locating Software for the Smart Array Controllers**

The HP-UX driver and utilities for the A7143A, A9890A & A9891A are not shipped with the controller but are available through HP's Software Depot:

<http://www.hp.com/go/softwaredepot>

Enter the model number of your controller (for example, **A9891A**) into the Search box at the top of the page

5.2 Operating System and Version Compatibility

This release is specific for HP-UX 11i v1 (B.11.11).

5.3 Hardware Requirements

This version of RAID-01 runs on HP 9000 servers with the HP-UX 11i v1 (B.11.11) operating system.

5.4 Other Requirements

- **HP Support Tools Manager (STM) and Event Monitoring Service (EMS)**

OnlineDiag version A.45.00, or later, must be used for STM and EMS support with the Smart Array Controllers.

- **HP-UX Virtual Partitions (vPars)**

You must install vPars version A.02.03.00 or later to use Smart Array Controllers in a vPars environment. To obtain this software, order HP Product Number T1335AC.

6 Related Information

The latest documentation for RAID-01 is available in English at:

<http://docs.hp.com/en/netcom.html#Smart%20Array%20%28RAID%29>

Available documents include:

- *HP Smart Array 6400 Series Controller Support Guide*
- *HP A7143A RAID160 SA Controller Support Guide*
- *HP A9890A Smart Array 6402 Controller Installation Guide*
- *HP A9891A Smart Array 6404 Controller Installation Guide*
- *HP Smart Array Controller Support Matrix*

7 Software Availability in Native Languages

The RAID-01 product is available only in the English language.



Printed in the US