Intel® RAID Card Replacement Guide

Purpose:

This document is provided to serve as a guide when replacing an Intel® Integrated RAID (IIR) controller with another compatible Intel RAID controller.

Assumptions:

- The Intel® RAID controller that you are installing will replace an existing Intel RAID controller, and the two controllers are feature equivalent. This means that the replacement controller has the required number of SCSI channels available, is technology compatible, and is slot compatible.
- The RAID volume structure used on the existing installation is supported by the replacement controller and the firmware installed on that controller.
  - o For example, if you have an SRCMR(U) controller and you are using both SCSI channels, you could replace it with an SRCU32 dual channel controller.

Before beginning the replacement Process

- Backup all data stored on the server, this includes data stored on the array as well as data stored on other drives in the system, including the operating system.
- It is always advisable prior to working on a system to perform a complete backup and to verify that the backup is readable and complete.
- Extra confidence can be gained by making and verifying two complete backups.
- Update the replacement controller to the same version of firmware as the controller you are replacing. (Note: It may be necessary to update the firmware on the existing controller and/or the replacement controller to bring the firmware to a consistent version. When updating the firmware, you should also update the drivers and utilities as well.)

1)   Replacing compatible Intel Controllers RAID in Microsoft* Windows 2000

Caution: Before you swap controllers, ensure that the new controller has the same firmware revision as the controller you are replacing

a) Uninstall the Raid Software Suite if it will be replaced with a newer version.

b) Shut down the system and replace the RAID controller.

   i)   If you are removing a 0 Channel Controller and replacing it with a 1 or 2 channel controller, move the SCSI cables from the connectors on the server board to the connectors on the RAID controller.

c) Boot to Windows* 2000.

d) When the Found New Hardware Wizard appears, follow the steps in the wizard and point it to the following locations when prompted:
   i)   c:\winnt\inf\ (for inf file location).
   ii) c:\winnt\system32\drivers (for raidsrc.sys driver).

e) Re-installed the RAID Software Suite if it was un-installed.

2) Swapping Out / Replacing Compatible Intel RAID Controllers on all other supported Operating Systems

Caution: Before you swap controllers ensure that the new adapter has the same firmware revision as the adapter you are replacing

a) Power down your computer.

b) Remove the original Intel RAID adapter.

c) Insert the new Intel RAID adapter.

   i) If you are removing a 0 Channel Controller and replacing it with a 1 or 2 channel controller, move the SCSI cables from the connectors on the server board to the connectors on the RAID controller.Power up your computer.

d) Boot the system for normal operation.

e) Re-install RAID Software Suite utilities if a newer version is required.

*Other names and brands may be claimed as the property of others.