



READ THIS FIRST: HP NetRAID-1M/2M Installation Update Sheet

Situation

A new release of HP NetRAID-1M/2M software is now available for download from the driver download section of the HP website at: www.hp.com, and on the NetRAID Software Library CD included with the NetRAID-1M/2M accessory kits (P3410A, P3411A, P3411B, P3475A, P3475B). This release provides a number of bug fixes and feature enhancements that are documented in the release notes that accompany the new NetRAID-1M/2M software.

Before performing this installation or update, take note of the following:

- The HP DS2300 is compatible only with this new release of the HP NetRAID-1M/2M firmware (H.02.01). Older versions of firmware will not allow the NetRAID-1M/2M to operate correctly with the HP DS2300. Therefore, it is critical to update to this new version (H.02.01) of HP NetRAID-1M/2M firmware if connecting a HP DS2300 to the controller.
- A new set of HP NetRAID-2M products with a 'B' suffix (P3411**B** 64 MB and P3475**B** 128 MB) is required for use with the HP tc3100 and tc4100 servers. The original HP NetRAID-2M products (P3411**A**, P3475**A**) are not supported in these two servers due to an intermittent system hang with loss of video, which may occur during boot up. The problem may go away upon a power cycle and it does not affect run time operation of the card. Either the original HP NetRAID-2M 'A' products (P3411**A** 64 MB and P3475**A** 128 MB) or the new NetRAID-2M 'B' products (P3411**B** 64 MB and P3475**B** 128 MB) may be used in all other server models.
- One Button Disaster Recovery (OBDR) is not a supported feature in this software release. Even though OBDR options appear in many of the menus within the NetRAID utilities this feature is NOT supported and may not function properly if used.
- This new release of NetRAID-1M/2M software is cluster certified.
- This document and software only applies to HP IA-32 servers.

Solution

Getting Started

The following documents and software are needed for the installation/update of the NetRAID-1M/2M:

- HP NetRAID-1M/2M Installation Update Sheet (Hardcopy included with accessory kit)
- HP NetRAID-1M and NetRAID-2M Installation and Configuration Guide (Hardcopy included with accessory kit)
- HP NetRAID Series User Guide (Located on HP Netserver Online Documentation CD-ROM, version D.24.00 and on HP website)
- The newest release of NetRAID-1M/2M software (Available from the HP NetRAID Software Library CD or from the HP website)

Follow these steps to install a new NetRAID-1M/2M or to update the currently installed NetRAID-1M/2M software. Some steps are required only for a new install and not for an update, so take note of these exceptions where indicated.



- A. Update the firmware on any other NetRAID controllers that are installed in the same HP server as the new NetRAID-1M/2M controller, if needed. *(New Install or Update)*
- B. Install the new NetRAID-1M/2M hardware into the HP server. *(New Install Only)*
- C. Update the hard disk drive firmware, if needed. *(New Install or Update)*
- D. Configure the controller using NetRAID Express Tools (Ctrl-M Utility) *(New Install Only)*
- E. Install/update Driver and NOS Utility *(New Install or Update)*

NOTE

When performing a new install or an update of the NetRAID-1M/2M software, **it is critical to install/update all of the software components (firmware, drivers, utilities, monitor service) to this newest release.** The NetRAID-1M/2M may not function correctly if there is a mix of old and new releases of installed software components.

A. Updating NetRAID firmware on other NetRAID controllers installed in the same HP server *(New Install or Update)*

All NetRAID controllers, including older controllers, that are installed in the same HP server as the HP NetRAID-1M/2M should be updated to the newest firmware version to insure proper operation. One issue that can occur if an update is not performed to older cards is that NetRAID Express Tools may not detect the newer NetRAID controllers.

If installing or updating a NetRAID-1M/2M in the same server as other NetRAID controllers, follow these steps:

1. There are two ways to determine which version of NetRAID firmware is installed:
 - **During bootup:** Determine which version of NetRAID firmware is installed by checking as it is displayed on the monitor.
 - **After bootup:** The versions can be checked from NetRAID Assistant or NetRAID Config. Using NetRAID Assistant, go to the **Adapter** menu and select **Properties** to view the firmware version, or, using NetRAID Config, go to the **Adapter** menu and select **View/Update Parameters** to view the firmware version.

If the installed version does not match the version in the table below, proceed to steps 2 and/or 3. If the installed version does match, no firmware updates are needed.

| NetRAID Controller | Required Firmware | Download Location |
|---|-------------------|--|
| HP NetRAID-1M/2M (P3410A, P3411A, P3411B, P3475A, P3475B) | H.02.01 | HP NetRAID Software Library CD or www.hp.com |
| HP NetRAID-3Si (D5955A) | C.02.03 | HP Navigator CD version L.19.10 or later or www.hp.com |
| HP NetRAID-1Si (D2140A) | F.02.05 | HP Navigator CD version L.19.10 or later or www.hp.com |
| Integrated NetRAID (LH 3/LH 4) | D.03.03 | HP Navigator CD version L.19.10 or later or www.hp.com |
| Integrated NetRAID (LH 3000/LH 6000/LT 6000r) | E.01.08 | HP Navigator CD version M.03.00 or later or www.hp.com |



2. For the HP NetRAID-3Si (D5955A), HP NetRAID-1Si (D2140A), Integrated NetRAID or the HP NetRAID-1M/2M (P3410A, P3411A, P3411B, P3475A, P3475B), update the firmware to the versions listed in the table above. The required firmware versions can be downloaded from the location listed above.
3. For the HP NetRAID-1 (D4992A), NetRAID (D4943A) (including the cluster version), and NetRAID-3Si (D5955A) (cluster version only), press <Ctrl><M> when the HP NetRAID-1M/2M banner appears. This will invoke the new version of the HP NetRAID Express Tool that will detect all installed NetRAID controllers. Invoking the NetRAID Express Tool at any other time will invoke the older version which will not detect the new controllers.

B. Install the NetRAID-1M/2M hardware (*New Install Only*)

Complete all of chapter 4 and steps C-E in chapter 5 of *HP NetRAID-1M and NetRAID-2M Installation and Configuration Guide* to plan the RAID configuration, physically install the NetRAID 1M/2M controller in the HP server, and connect the cables:

1. Complete Chapter 4, "Planning," in its entirety.
2. In Chapter 5, "Installation and Configuration," complete steps C through E to physically install the NetRAID-1M/2M into the HP server and connect the cables.
3. Even though the NetRAID-1M/2M comes flashed with the new release of firmware, it is always a good practice to check the firmware version and update, if needed. Please see step 1 in part A of this document above for details on how to check the firmware version. Update the firmware if needed.

C. Updating hard disk drive firmware (*New Install or Update*)

Some older versions of hard disk drive firmware may cause the HP NetRAID-1M/2M subsystem to hang during initialization of the logical drives or during normal operation.

Please follow these steps to prevent this issue from occurring:

1. Go to http://h20004.www2.hp.com/keeper_rnotes/bsdmatrix/matrix65146.html and download two files:
 - HP Hard Disk Drive Firmware Tool Catalog File for the AMI/Adaptec Controller
 - HP NetServer Firmware Tool
2. Run `uthdd.exe` from the location where it was saved. This will create a bootable floppy diskette containing the HP Hard Disk Drive Firmware Tool.
3. Run the `catalog.exe` file from the location where it was saved which will decompress the `catalog.dat` file. Choose to save this to the bootable floppy diskette that was created in the previous step.
4. Boot the HP server from the floppy created above, and follow the onscreen instructions to check and update if needed the hard disk drive firmware.

| | |
|-------------|--|
| NOTE | Make sure that the activity lights on the drives indicate no I/O activity before updating the firmware on the drives. (NetRAID background initialization may prevent the utility from downloading firmware to the disk drive.) |
|-------------|--|

D. Configure the NetRAID-1M/2M controller (*New Install Only*)

Using the plans created in Chapter 4, "Planning", of the *HP NetRAID-1M and NetRAID-2M Installation and Configuration Guide* complete the following steps to configure the NetRAID-1M/2M:

1. Log off all users, close all applications, and power down the HP Netserver.
2. Reboot the server.
3. Press <Ctrl> <M> when you see the prompt:



Option: Experienced users may press <Ctrl> <M> for HP NetRAID Express Tools now.

| | |
|-------------|---|
| NOTE | HP NetRAID Express Tools will start after all the system BIOS POST completes. |
|-------------|---|

1. Refer to the *HP NetRAID Series User Guide*, step C in Chapter 4 (titled “HP NetRAID Express Tools”), to complete the following tasks. (**Note:** This document can be found on the included HP Netserver Online Documentation CD-ROM, version D.24.00 or on the HP website.)
 - Define the arrays and logical drives using either the **New Configuration** or **Easy Configuration** option from the **Configure** menu of HP NetRAID Express Tools.
 - Initialize the logical drives using the **Initialize** option from the HP NetRAID Express Tools main menu.
2. Exit HP NetRAID Express Tools.

E. Installing the HP NetRAID Series Software (*New Install or Update*)

Complete installation of the NetRAID-1M/2M by installing the NetRAID-1M/2M driver and OS specific utility. The HP NetRAID Software Library CD that is included with the accessory kit and the HP website are the only sources for downloading the newest release of driver and utility. Do not install the NetRAID-1M/2M software from the HP NetServer Navigator CD as instructed by the *HP NetRAID-1M and NetRAID-2M Installation and Configuration Guide*.

1. Download the NetRAID-1M/2M OS specific driver from either the HP website or the *HP NetRAID Software Library CD*. Follow the OS specific instructions for driver installation as provided by your OS supplier.
2. (*Update only*) Uninstall the current version of the NetRAID-1M/2M utility.
3. Download the NetRAID-1M/2M OS specific utility from either the HP website or the *HP NetRAID Software Library CD*. Follow the directions from step K in chapter 6 of the *HP NetRAID-1M and NetRAID-2M Installation and Configuration Guide* to install the utility on the HP server.
4. Complete step L in chapter 6 of the *HP NetRAID-1M and NetRAID-2M Installation and Configuration Guide*, if needed.

| | |
|-------------|---|
| NOTE | The minimum requirement for installation of the Microsoft Windows NetRAID-1M/2M Utility (NetRAID Assistant) is Windows NT4 with Service Pack 4 or Windows 2000 with Service Pack 2a and Internet Explorer 5.0 |
|-------------|---|



HP NetRAID Software Library CD NetRAID-1M/2M Software Versions

The following table lists the versions of all the software components that are part of this new release. This software is available on the NetRAID Software Library CD included with the NetRAID-1M/2M accessory kits (P3410A, P3411A, P3411B, P3475A, P3475B) and on the HP website at www.hp.com.

| NetRAID-1M/2M Software Component Name | Version Number |
|--|---|
| All Operating Systems | |
| Firmware | H.02.01 |
| Windows 2000 | |
| Driver | 5.29 |
| Utility | B.02.00 |
| Monitor Service | 5.04 |
| Consistency Check Scheduler | 3.02 |
| Windows NT | |
| Driver | 4.09 |
| Utility | B.02.00 |
| Monitor Service | 5.04 |
| Consistency Check Scheduler | 3.02 |
| Netware 5.x/6 | |
| Driver | 6.02 |
| Utility | 3.02 (contained within the NetWare Utility Package version M.05.00) |
| Monitor Service | 1.07 (contained within the NetWare Utility Package version M.05.00) |
| SCO OpenServer 5.x | |
| Driver | 2.14-2 (contained within the OpenServer Driver/Utility Package version 2.14-4) |
| Utility | B.02.01 (contained within the OpenServer Driver/Utility Package version 2.14-4) |
| Monitor Service | 1.05 (contained within the OpenServer Driver/Utility Package version 2.14-4) |
| UnixWare 7, OpenUnix 8 | |
| Driver | 1a34 (contained within the UnixWare/OpenUnix Package version 1b34-3) |
| Utility | B.02.02 (contained within the UnixWare/OpenUnix Package version 1b34-3) |
| Monitor Service | 1.05 (contained within the UnixWare/OpenUnix Package version 1b34-3) |
| DOS | |
| Driver | 1.2915 |
| Utility | B.02.00 |

