

Installation Note

HP E4900-60014 Upgrade Kit:

Upgrades HP E4900A, HP E4901A, HP E4902A, HP E4900B, HP E4901B, and HP E4902B

HP E4900-60015, Option 003 Upgrade Kit:

Upgrades HP E4900A, Option 003; HP E4901A, Option 003; HP E4902A, Option 003; HP E4900B, Option 003; HP E4901B, Option 003; and HP E4902B, Option 003



HP Part Number E4900-90026
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Products affected:	HP E4900A, HP E4901A, HP E4902A, HP E4900B, HP E4901B, and HP E4902B
Applies to Versions:	A.01.02 and greater. See Notes 1 and 2 below.
Serial Numbers:	All
To Be Performed by:	<input type="checkbox"/> HP Service Center <input type="checkbox"/> Personnel Qualified by HP <input type="checkbox"/> HP Personnel On-site <input checked="" type="checkbox"/> Customer
Estimated Installation Time:	30 minutes
Estimated Verification Time:	Not applicable

Notes

1. The upgrade process overwrites all existing data. If you are upgrading from any release later than A.02.00, you can archive the data and restore the archived data after you complete the upgrade.

For releases prior to A.02.00, the databases differ between these major releases, and the data **cannot** be transferred. To keep existing data, before you install the upgrade, move existing measurement data offline (hardcopy or convert to spreadsheet data). After you update the software, manually re-enter your measurement definitions.

2. There are two distinct software packages used with the HP E4900 systems: standard and option 003. The software you use must match your software key.

HP E4900-60014 Upgrade Kit contains three disks (part number E4900-10027). It is used for standard systems and requires software key E4900-80024.

HP E4900-60015, Option 003 Upgrade Kit contains three disks (part number E4900-10029) It is used for all option 003 systems and requires software key E4900-80026. (Option 003 adds control for an Atis tape recorder, Icom receiver, and HP 3488 switch control unit. Also, the title bar in the SMS software displays **[opt 003]**.)

Description

This package contains revision A.02.02 of the HP E4900 spectrum monitoring system. This revision addresses year 2000 database problems in the E4900 software. The upgrade is compliant with minor issues. There are issues with the PC's used and the Windows for Workgroup operating

system. Web sites are listed for more information about these issues.

For further information on HP and the year 2000, see our web site <http://www.hp.com/year2000/index.html>

What's Changed in the Upgrade

In addition to the Y2K fixes, the following issues have been addressed:

- When you use the 856xE series of spectrum analyzers, a communication problem freezes the SMS program if you re-start without first re-booting the PC.
- When you use the SMS spectrum analyzer control, the PC display may show the signal clipped below the top of the display even though the spectrum analyzer display appears correct.
- When you enter a band definition and select **coupled** to compute sweep time from resolution bandwidth, the analyzer over sweeps for some resolution and video bandwidth settings.

PC updates

The personal computers used in the HP E4900 systems may require updates to be year 2000 compliant. Some models will be fully compliant, others will be compliant with minor issues. For further information, refer to the Hewlett-Packard web site <http://www.hp.com/cposupport/nonjsnav/pchome.html>.

Model	Bios upgrade needed	Year 2000 status
Vectra VL2/66	no	Compliant with user-performed adjustment
Omnibook 4000	Optional	Compliant with user-performed adjustment
Omnibook 5000	Optional	Compliant with user-performed adjustment
Omnibook 5500	yes	Compliant
Omnibook 5700	no	Compliant

Laptop bios upgrades are available from: <http://www.hp.com/cposupport/nonjsnav/omnib.html>.

Operating System Updates

Microsoft Windows for workgroups is year 2000 compliant with minor

exceptions. Please search the Microsoft web site for detailed information.
<http://www.microsoft.com/technet/year2k/product/product.htm>

Select **Windows for Workgroups** in the product search.

Installing the Upgrade

Be sure you load the correct software. (Refer to page 3, Note 2 for clarification.) Follow these steps:

1. Close all programs, including the SMS program.
2. Use the HP E4900 File Utilities program to save settings and data. (Refer to the HP E4900 users manual for instructions.) If you have customized the following files or have correction data for path losses, create a directory called E4900 and make copies of the following files:
 - In the C:\Windows directory:
 - ALRMCNFG.INI (Alarm program handoff)
 - MHOS.INI (carrier measurement handoff)
 - In the C:\Sigmon\Config directory
 - *.INI (path losses)
 - *.MSK (masks)
 - In the C:\Sigmon\Bin directory
 - *.PFL (profiles)

CAUTION

If you do not perform step 2, all monitoring plans, band definitions, and any stored measurement data will be lost.

3. Insert disk 1 into Drive A:
4. From the program manager menu, choose **Run**, type `a:setup`, and click **OK**
5. Follow the installation instructions on the screen. Because the HP E4900 program was previously installed, you will not be required to restart the computer to reset the path variable.
6. When the installation is complete, choose **File > Run**, type `iconfig`, and click **OK**. The HP E4900 IO Configuration dialog box opens.
7. Select the type of GPIB interface and the model number of the analyzer you use from the drop-down boxes, and click **OK**.
8. Use the HP E4900 File Utilities to restore your band definitions and measurement data.

9. Start the SMS program. If you made backups of your customized setups, verify the installation is working correctly before copying your files into their respective directories.

Note

Option 003 users: The RFPATH feature must be enabled. Choose **Setup > RFPATH** and click **Active**.

Troubleshooting

If the spectrum analyzer is not being controlled from the HP E4900, there are two common symptoms and causes:

- In the right side of the status bar a red message reads, *Spectrum analyzer not responding*.

The spectrum analyzer address is set wrong or the cable is disconnected. If the HP E4900 is unable to communicate with the spectrum analyzer upon startup, it displays the message. The SMS program must be restarted to clear the message. Make the correction from the spectrum analyzer front panel. Please consult your spectrum analyzer's users manual for instructions on changing the GPIB address.

- No message displays.

Iconfig selects which type of PC is in use: a laptop or a desktop. If you did not run iconfig before starting the SMS program, there is no software connection to the GPIB bus. To run iconfig:

1. Open the File Manager, and select **Run**.
2. Type `iconfig` and click **OK**.
3. Select the PC interface type for your system:
 - HP 82335 for desk top PC
 - PCMCIA for laptops

Choosing a different RF Path has no effect (option 003 systems only).

- The default for the SMS program is inactive. The RF Path must be enabled before it can be used.
 1. Start the SMS program.
 2. Use the pull down menu Setup to select RFPATH.
 3. Set to active.
- Check the GPIB connection to the HP 3488A switch control unit.
- Check the HP 3488A address. It should be set to 9.

For further troubleshooting information and downloadable software, refer to the web site <http://ots.external.hp.com/>.