

Migrating Win2K/WinXp Disk Images from SunPCiTM II to SunPCi III

By SunPCi Product Development Team

<http://www.sun.com/desktop/products/sunpci/>

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Introduction

When new versions of SunPCi™ hardware are released, users may desire to migrate their C: and D: drives to the new version of the card without having to rebuild the system disks (i.e., reinstall all applications). Additionally, there are environments where system administrators would like to create a single "golden" C: drive to distribute to all users. This golden image would contain the OS as well as any desired applications pre-installed.

The Sysprep utility from Microsoft is needed to migrate a Win2K/WinXp disk image from a SunPCi II platform to the SunPCi III platform. The Sysprep utility lets a user prepare a disk image for transfer from one machine to another machine. The Sysprep utility is shipped with the retail distribution CD for both Windows 2000 Professional/Server and Windows XP Professional. The Windows 2000 CD ships with an outdated version (1.0) of the Sysprep utility. The latest [version \(1.1\)](#) for Windows 2000 at the time of this writing can be found on Microsoft's website.

URL =

<http://www.microsoft.com/technet/treeview/default.asp?url=/TechNet/prodtechnol/windows2000serv/downloads/syprep11.asp>

The latest version (2.0) for Windows XP uses an enhanced graphical user interface but has no real added advantages over its Windows 2000 predecessor. If there are differences between the Sysprep utilities for Windows 2000 and Windows XP, then the differences will be signified by the title of the section.

Hardware/Software Requirements

Here are a list of things needed to be purchased before the process of migrating a SunPCi II disk image to the SunPCi III platform can be successful.

1. SunPCi II card with 2.3.2 software version (i.e. SUNWspci2). Note: Software version 2.3.2 is a requirement. Also make sure the Intel side drivers are updated with the 2.3.2 software version as well prior to disk migration.
2. SunPCi III card with released software version 3.2 (i.e. SUNWspci3).
3. Windows 2000/WindowsXP distribution CD.

Overview of the Disk Migration Process

This section gives the user a list detailing the order of execution to follow for the disk migration process. Note: If there are multiple partitions to transfer to the SunPCi III platform, then make sure all partitions are transferred to the SunPCi III platform before the **Mini-Setup on SunPCi III** section is executed.

1. Preparation, Sizing, Tools
2. Copying SunPCi III Files/Drivers to a Temporary Directory.
3. Preparing SunPCi II Disk Image for Migration.
4. Update the SunPCi Hardware/Software.
5. Sun Diskupdate Conversion Tool.
6. Modify the SunPC.ini File.
7. Start SunPCi III Session.
8. Mini-Setup on SunPCi III

Preparation, Sizing, Tools

Here are a list of things needed to be done before the process of migrating a SunPCi II disk image to the SunPCi III platform can be successful.

1. Make a copy of your SunPCi II disk image on the Solaris™ System. This will allow the user to retrieve the disk image if the migration is unsuccessful. Note: make sure all SunPCi II sessions are closed prior to copying any SunPCi II disk image
2. Windows Professional XP disk images must be upgraded to Service Pack 1 or greater. Failure to do so will result in USB drivers failing to install correctly during the disk image migration.

Copying SunPCi III Files/Drivers to a Temporary Directory

There are two methods of copying the SunPCi III files/drivers to a temporary location. To keep it simple, both methods will copy the SunPCi III files/drivers to the **/tmp/sysprep** location on the Solaris file system. Note: The directory location is only chosen here as an example. The user can choose to store the SunPCi III files/drivers to any location he/she finds convenient. The user, however, should only choose one method below.

(Method 1) Copying SunPCi III Files/Drivers from SunPCi III Distribution CD

The necessary SunPCi III files/drivers used in this method have been copied to a location on the SunPCi III Distribution CD. This was done for users wanting to migrate to the SunPCi III platform from a PC. It can also be used for users wanting to migrate to the SunPCi III platform from the SunPCi II platform. Again, the choice is entirely up to the user to determine which method works the easiest. Follow the steps below to copy the SunPCi III files/drivers to a temporary location.

Windows 2000 users

1. Insert the SunPCi III Distribution CD for release 3.2 into the Solaris system. Wait for the volume manager to mount the CD.
2. copy all required SunPCi III files required for the migration to a temporary directory by doing the following command from a Solaris terminal window: **cp -rp /cdrom/sunpci_3_2/Deploy/win2k/sysprep /tmp/sysprep**. Note: **/tmp/sysprep** signifies the temporary directory in Solaris.
3. Start all SunPCi II cards on the Solaris system.

Windows XP Professional users

1. Insert the SunPCi III Distribution CD for release 3.2 into the Solaris system. Wait for the volume manager to mount the CD.
2. copy all required SunPCi III files required for the migration to a temporary directory by doing the following command from a Solaris terminal window: **cp -rp /cdrom/sunpci_3_2/Deploy/winxp/sysprep /tmp/sysprep**. Note: **/tmp/sysprep** signifies the temporary directory in Solaris.
3. Start all SunPCi II cards on the Solaris system.

(Method 2) Copying SunPCi III Files/Drivers from SUNWspci3 package

The SunPCi III platform cannot coexist with an earlier version of the SunPCi platform (i.e. SunPCi II). Only one software package is allowed on any one system. Therefore, the user will have to save the SunPCi III files/drivers required in the migration to a temporary location. Follow the steps below to handle the requirement of having only one SunPCi package at a time on a system:

Windows 2000 users

1. Shutdown all SunPCi II cards on the Solaris system.
2. login to the current machine as **root**.
3. `pkgrm SUNWspci2`. Note: Do not remove the SunPCi II card(s).
4. `pkgadd SUNWspci3`. Note: Do not install the SunPCi III card(s).
5. logout **root** on the Solaris system.
6. copy all required SunPCi III files required for the migration to a temporary directory by doing the following command: `cp -rp /opt/SUNWspci3/drivers/win2k/sysprep /tmp/sysprep`. Note: `/tmp/sysprep` signifies the temporary directory in Solaris.
7. login to the Solaris system as **root**
8. `pkgrm SUNWspci3`.
9. `pkgadd SUNWspci2`.
10. logout root on the Solaris system.
11. Start all SunPCi II cards on the Solaris system.

Windows XP Professional users

1. Shutdown all SunPCi II cards on the Solaris system.
2. login to the current machine as **root**.
3. `pkgrm SUNWspci2`. Note: Do not remove the SunPCi II card(s).
4. `pkgadd SUNWspci3`. Note: Do not install the SunPCi III card(s).
5. logout **root** on the Solaris system.
6. copy all required SunPCi III files required for the migration to a temporary directory by doing the following command: `cp -rp /opt/SUNWspci3/drivers/winxp/sysprep /tmp/sysprep`. Note: `/tmp/sysprep` signifies the temporary directory in Solaris.
7. login to the Solaris system as **root**
8. `pkgrm SUNWspci3`.
9. `pkgadd SUNWspci2`.
10. logout root on the Solaris system.
11. Start all SunPCi II cards on the Solaris system.

Preparing SunPCi II Disk Image for Migration

Now that the original disk image is backed up for the SunPCi II platform, the user can continue on to the disk migration/replication procedure of the disk migration process. Note: This is the last chance to save the original SunPCi II disk image. Start the SunPCi II card on the Solaris system and log into the Windows 2000/XP Professional system.

Step 1 (Active Display on Sun Microsystems SunPCi Video Driver)

Note: Skip to **Step 2 (Running SetupMgr)** if the active display is currently set to the Sun Microsystems SunPCi Video Driver.

The SunPCi II card allows display to the onboard VGA connector. If the display is currently focused to the onboard VGA connector for Windows 2000/XP Professional, then it must be changed to the Sun Microsystems SunPCi Video Driver prior to the disk image migration. Follow the steps below to reconfigure the video to the Sun Microsystems SunPCi Video Driver.

1. Right click on the Windows 2000/XP Professional desktop.
2. Select **Properties**.
3. Select **Settings**.
4. Hit the pull down menu under the **Display:** title in the **Display Properties** window..
5. Select **Default Monitor on Sun Microsystems SunPCi Video** in the **Display Properties** window.
6. Select **Extend my Windows desktop onto this monitor** in the **Display Properties** window.
7. Select **Use this device as the primary monitor** in the **Display Properties** window.
8. Hit the pull down menu under the **Display:** title in the **Display Properties** window.

9. Select **Plug and Play Monitor on sis 630/730** in the **Display Properties** window.
10. Deselect **Extend my Windows desktop onto this monitor** in the **Display Properties** window.
11. Hit the **Apply** button. Note: Video input should be shown on the Solaris desktop now.
12. Hit the OK button.

Step 2 (Running SetupMgr)

The SetupMgr utility is located on the Windows 2000/XP distribution CD. This utility is used for migrating/replicating disk images. To prepare a disk image for migration do the following:

Windows 2000 users

1. Create the directory **C:\Sysprep**.
2. Copy all files from the **\Support\Tools\deploy.cab** file on the Windows 2000 CD into the Sysprep directory created in **Step 1**. Note: The files are compressed in the **deploy.cab** file. The Windows Explorer program will automatically uncompress them for you. Browse to the above location on the cdrom and double click on the **deploy.cab** file. This will allow the user to view the files within the compressed **deploy.cab** file. Highlight all files within the directory and copy them to **C:\Sysprep**.
3. Run **SetupMgr.exe** from **C:\Sysprep**.
4. Select **Next** in the **Welcome to the Windows 2000 Setup Manager Wizard** page.
5. Select **Create an answer file that duplicates this computer's configuration** in the **New or Existing Answer File** page and then choose **Next**.
6. Select **Sysprep Install** in the **Product to Install** page and then choose **Next**.
7. Select the OS that you are currently using in the **Platform** page and then choose **Next**.
8. Select **Yes, fully automate the installation** in the **License Agreement** page and then choose **Next**.
9. Fill in the **Name** field as well as the **Organization** field in the **Customize the Software** page and choose **Next**.
10. Enter the name of the computer in the **Computer name:** field within the **Computer Name** page and choose **Next**.
11. Select an Administrator password option within the **Administrator Password** page and choose **Next**.
12. Select the following display settings in the **Display Settings** page.
 - a. Colors = 256
 - b. Screen area = 640 x 480
 - c. Refresh frequency = Use Windows default.
 Choose **Next** to continue.
 Note: The default display output on the SunPCi III platform will be set accordingly after the disk migration is completed:

Video Output displayed to internal monitor with the following settings.

Internal Monitor = 800x600x16(Bit) colors.

External Monitor = 800x600x32(Bit) colors.

13. Select **Typical Settings** in the **Network Settings** page and then choose **Next**.
14. Select the type of network the computer is connected to in the **Workgroup or Domain** page and then choose **Next**.
15. Select the time zone in the **Time Zone** page and then choose **Next**.
16. Select **No, do not edit the additional settings** in the **Additional Settings** page and then choose **Next**.
17. Select **Yes, create or modify the Sysprep folder** in the **Sysprep Folder** page and then choose **Next**.
18. Choose **Next** in the **Additional Commands** page.
19. Choose **Next** in the **OEM Branding** page.
20. Choose **Next** in the **Additional Files or Folders** page.
21. Select **OK** at the **Please specify the path to the Windows Setup** Screen.
22. Browse to the Windows 2000 Distribution CD. (Ex: D:\i386). Select **OK**.
23. Choose **Next** in the **OEM Duplicator String** page.

24. Choose **Next** in the **Answer File Name** page.
25. Choose **Finish** in the **Completing the Windows 2000 Setup Manager Wizard** page.
26. Proceed to **Step 3 (Upgrading Windows 2000 Sysprep to version 1.1)**.

Windows XP Professional users

1. Create the directory **C:\Sysprep**.
2. Copy all files from the **\Support\Tools\deploy.cab** file on the Windows XP CD into the Sysprep directory created in **Step 1**. Note: The files are compressed in the **deploy.cab** file. The Windows Explorer program will automatically uncompress them for you. Browse to the above location on the cdrom and double click on the **deploy.cab** file. This will allow the user to view the files within the compressed **deploy.cab** file. Highlight all files within the directory and copy them to **C:\Sysprep**.
3. Run **SetupMgr.exe** from **C:\Sysprep**.
4. Select **Next** in the **Welcome to the Windows Setup Manager Wizard** page.
5. Select **Create a new answer file** in the **New or Existing Answer File** page and then choose **Next**.
6. Select **Sysprep Install** in the **Product to Install** page and then choose **Next**.
7. Select the OS that you are currently using in the **Platform** page and then choose **Next**.
8. Select **Yes, fully automate the installation** in the **License Agreement** page and then choose **Next**.
9. Fill in the **Name** field as well as the **Organization** field in the **Customize the Software** page and choose **Next**.
10. Select the following display settings in the **Display Settings** page.
 - a. Colors = 256
 - b. Screen area = 640 x 480
 - c. Refresh frequency = Use Windows default.
 Choose **Next** to continue.

Note: The default display output on the SunPCi III platform will be set accordingly after the disk migration is completed:

Video Output displayed to internal monitor with the following settings.

Internal Monitor = 800x600x16(Bit) colors.

External Monitor = 800x600x32(Bit) colors.

11. Select the appropriate Time Zone in the **Time Zone** page and choose **Next**.
12. Enter the Product Key from the Windows Distribution CD in the **Product Key** field of the **Providing the Product Key** page. Choose **Next** to continue.
13. Enter the name of the computer in the **Enter the computer name:** field within the **Computer Name** page and choose **Next**.
14. Select an Administrator password option within the **Administrator Password** page and choose **Next**.
15. Select **Typical Settings** in the **Network Settings** page and then choose **Next**.
16. Select the type of network the computer is connected to in the **Workgroup or Domain** page and then choose **Next**.
17. Choose **Next** in the **Telephony** page.
18. Choose the regional options in the **Regional Settings** page and choose **Next** to continue.
19. Choose any additional languages within the **Languages** page and choose **Next** to continue.
20. Install any local/network printers in the **Install Printers** page and choose **Next** to continue.
21. Install any run once programs in the **Run Once** page and choose **Next** to continue.
22. Choose **Next** in the **Additional Commands** page.
23. Choose **Finish** in the **OEM Duplicator String** page.
24. Choose **OK** in the **Windows Setup Manager** page.
25. Exit the **Windows Setup Manager** page.
26. Proceed to **Step 4 (Copying the SunPCi III files/drivers into the Sysprep folders)**.

Step 3 (Upgrading Windows 2000 Sysprep to version 1.1)

If migrating a Windows 2000 disk image, then the Sysprep utility (version 1.0) shipped on the Windows 2000 CD is outdated. Please download the current Sysprep utility [version 1.1](#) from Microsoft's website and follow the instructions below in upgrading the utility.

URL =

<http://www.microsoft.com/technet/treeview/default.asp?url=/TechNet/prodtechnol/windows2000serv/downloads/syprep11.asp>

For Windows XP users, the Sysprep utility (version 2.0) for Windows XP can be found on the distribution CD. No upgrades for this version are required.

Follow the instructions below to upgrade the Windows 2000 Sysprep utility to version 1.1.

1. Download the updated Sysprep utility.
2. Extract the files from the downloaded executable to a temporary download directory.
3. Browse through the temporary download directory to the subdirectory called **tools**.
4. Copy **pnpids.exe**, **setupcl.exe**, **sysprep.exe** to **C:\Sysprep**. This effectively upgrades the current Sysprep utility from version 1.0 to version 1.1.

Step 4 (Copying the SunPCi III files/drivers into the Sysprep folders)

Now that the OS is taken care of, the driver installation for the SunPCi III platform needs to be addressed next. The files/drivers needed for the migration to the SunPCi III platform should have already been copied to a temporary directory (See section: **Copying SunPCi III Files/Drivers to a Temporary Directory** for details). Follow the instructions below to merge the files/drivers into their proper locations for migration to the SunPCi III platform. Note: Assuming the user has access to the temporary Solaris directory from the SunPCi II system.

1. Copy the contents of **/tmp/sysprep/sun** on the Solaris system to **C:\sun** on the SunPCi II system. Note: The **C:\sun** directory already exists. The drivers in this directory, though, do not run on the SunPCi III platform. The user will need to delete the current **C:\sun** directory that is currently there and copy the new files for the SunPCi III platform into this location.
2. Copy the contents of **/tmp/sysprep/oem/*.*** on the Solaris system to **C:\Sysprep\i386\oem** on the SunPCi II system.

Step 5 (Modifying sysprep.inf file)

The boot drivers for the SunPCi III platform have to be presented to the Sysprep utility in order for them to be installed during Mini-Setup. Change the current directory location to the following using Explorer:

C:\sun\sysprep

In this directory there should be a file named **sunconv.exe**. Run this program to modify the **sysprep.inf** file to notify Mini-Setup about the boot drivers that are needed to make the disk image come up correctly on the SunPCi III platform. In addition, this program will install the NT services required to run on the SunPCi III platform.

Step 6 (Run Sysprep.exe)

Windows 2000 users

Do the following commands:

1. Close all open applications.
2. Hit the **Start** button.
3. Select **Run...**
4. Enter **cmd** in the **Open** field and choose **OK**.

5. Enter **cd c:\sysprep** and hit **Return**.
6. Enter **sysprep /nosidgen** and hit **Return**.
7. Select **OK** in the **Windows System Preparation Tool** window.

The system will install the boot drivers for the SunPCi III platform followed immediately by a system shutdown.

Windows XP Professional users

Do the following commands:

1. Close all open applications.
2. Hit the **Start** button.
3. Select **Run...**
4. Enter **cmd** in the **Open** field and choose **OK**.
5. Enter **cd c:\sysprep** and hit **Return**.
6. Enter **sysprep** and hit **Return**
7. Select **OK** in the **Windows System Preparation Tool** window.
8. Select **NoSIDGen** in the **System Preparation Tool** window.
9. Select **MiniSetup** in the **System Preparation Tool** window.
10. Hit the **Reseal** button.

The system will install the boot drivers for the SunPCi III platform followed immediately by a system shutdown.

Update the SunPCi Hardware/Software

The user can now update the SunPCi II hardware to the SunPCi III platform. Perform the following instructions:

1. login to the Solaris system.
2. become **root** on the Solaris system.
3. Remove SunPCi II software package: **pkgrm SUNWspci2**.
4. Remove SunPCi II VNC software package if it is currently installed: **pkgrm SUNWspvnc**.
5. power down the Solaris system by doing the following command: **uadmin 2 6**.
6. Remove SunPCi II hardware from the Solaris system.
7. Add SunPCi III hardware to the Solaris system.
8. Power up the Solaris system.
9. Invoke the **Stop A** command at system initialization.
10. At the **OK** prompt type **boot -r** and hit the **Return** key.
11. login to the Solaris system.
12. become **root** on the Solaris system.
13. Add SunPCi III software package: **pkgadd SUNWspci3**.
14. logout out of **root**.

Sun Diskupdate Conversion Tool

The SunPCi team has created a disk update program that can modify a SunPCi II disk image to run on a SunPCi III platform. The **diskupdate** program is shipped with the SUNWspci3 package and is located in the following directory:

/opt/SUNWspci3/bin

The following syntax is used when running the **diskupdate** program:

diskupdate -f [path to SunPCi II disk image]<SunPCi II disk image file name> -u

The user needs to modify both his C and D drive disk images.

Note: Running this program is required. If the user does not run this program, then the disk image will not boot on the SunPCi III platform. In addition, this program should only be used when migrating disk images from the SunPCi II platform to the SunPCi III platform. It will not work for disk images on the SunPCi I platform.

Modify the SunPC.ini File

The user should skip this section if the disk image he is migrating is a Windows 2000 disk image. Windows XP Professional users need to modify the SunPC.ini file that is used to start the disk image. This modification is needed to view the Mini-Setup progress during the disk image migration process. The default location of this file can be found in the following location of the user's home directory.

`/home/user/pc/SunPC.ini`

Note: For the example above, `/home/user` is the user's home directory. Also, if using the server `boot@boot` option, the SunPC.ini files may be name differently.

Open the SunPC.ini file and add the following lines:

```
[Display]
VesaModes=Disabled
```

Note: If the VesaModes entry is already in the SunPC.ini file, then just change the entry from Enabled to Disabled.

Start SunPCi III Session

Once the SunPCi II disk image has been converted to the SunPCi III platform, the user can startup the SunPCi III card by doing the following command:

```
/opt/SUNWspci3/bin/sunpci -R -B
```

The `-R` option is needed to update the cmos data with the correct default values. The `-B` option is needed to bind the MAC Address for the physical network adapter on the SunPCi III card to the migrated disk image. Both options are only needed the first time the migrated disk image is run on the SunPCi III card.

Note: Make sure the disk image converted in the **Sun Diskupdate Conversion Tool** section above is pointed to by the **SunPC.ini** file that the sunpci process uses to find the disk image.

Mini-Setup on SunPCi III

There's nothing to do but sit back and watch the disk image run through the Mini-Setup on the SunPCi III platform. If the user plans on installing software by adding to the `cmdline.txt` file, then make sure that the installation of the software is done after all drivers and system services are installed for the SunPCi III platform.

More Deployment Documentation

This article only discusses the basics on how to use the Sysprep utility on the SunPCi III platform. There are more features that can be integrated and used with the Sysprep utility than what is presented here in this document. Here are a couple of documents to read on all the possibilities of the Sysprep utility.

1. [Automating Windows 2000 Deployments with Sysprep. White Paper: by Microsoft.](#)

2. Unattend.doc file located in the \Support\Tools\deploy.cab directory located on the Windows 2000 distribution CD.

Conclusion

The transferring of disk images onto a new release of the SunPCi platform from an older SunPCi platform in the past was never done prior to the SunPCi III platform. Hopefully, the SunPCi team has filled a needed customer requirement in the release of the SunPCi III platform with support for the Sysprep utility.