File Backup and Transfer

This backup and transfer process is designed specifically for fast, efficient migration of applications and data from a COE (Common Operating Environment) source PC to a new destination PC.

The process uses GHOST32 in a Windows XP Pre-Installation environment (WinPE)[1] to transfer an exact copy of the contents--including configuration settings and applications-- of the hard disk in a SOURCE machine that is targeted for replacement to the hard disk in a replacement DESTINATION machine. The SOURCE and DESTINATION machines must be connected via TCP/IP, either directly (by crossover cable) or over a LAN.
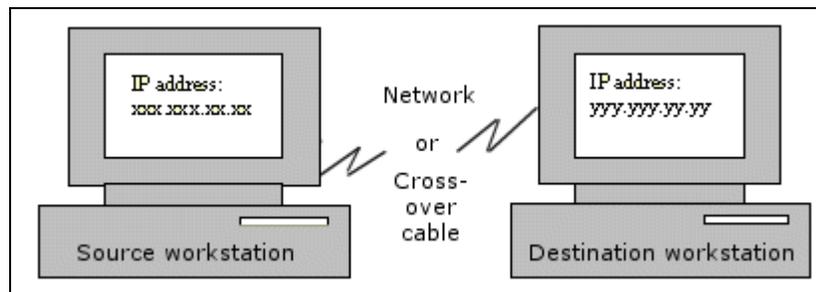
Before You Begin

In addition to the source PC (which is being replaced) and the destination PC (to which the ghost image will be copied), you will need:

1   Two copies (on CD) of the WinPE.ISO files required to manage the imaging process.

> To create your own CD copies of the WinPE.ISO files:
>
> **NOTE**
>
> ▪ Download and install the following application-- Ghost-v1.0 SCV1--on a PC that has a CD-RW drive and CD burning software installed.
>
> ▪ Use Nero to copy the WinPE ISO file from its location in C:\drivers to two separate CDs: one each for the source and destination PCs. These CDs will be startup CDs.

2   Access to an internal network (for both machines) or a direct crossover cable for PC-to-PC connection

3   Access to the required hardware drivers and required application channels for the destination machine via:

   ▪ LAN connection to a transmitter/proxy

   ...or...

   ▪ Access to installation files (for hardware drivers and required applications) on an external USB hard drive or on CD/DVD.

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[1] **WinPE** (Microsoft Windows Preinstallation Environment) is a tool based on Windows XP Professional that makes it easier to automate Windows setup, script execution, and imaging applications.

Start on the Source PC

The first phase of the Ghost Backup and Transfer process runs only on the source PC (the one being replaced.) Make sure the source and destination PCs are:

- Both connected to an internal network

    ... or ...

- Connected to each other via crossover cable.

1   Start the source PC and login.

2   On the source PC with COE running, insert the WinPE Disc 1 into the CDROM drive. *A dialog appears to warn you that you're about the start the Ghost Backup and Transfer process from this source PC.*

> **NOTE**   If the dialog does not appear automatically, CD AutoPlay is not enabled. Click Start-->Run and type <CDROM>:\S5DirMig.exe, where *CDROM* is the drive letter of the CD-ROM drive.

3   Click OK. *The following dialog appears, with your login ID in the User Name field.*

Windows Login Info

User Name: hNR54

Password:

OK   Cancel
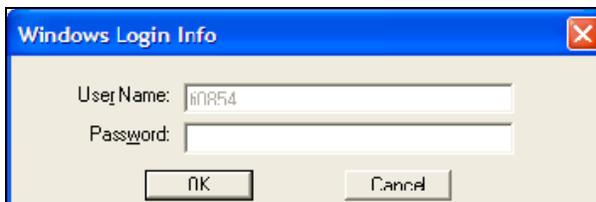
4   Type your Windows login password in the Password and Verify Password fields; then click OK. *A message box appears, warning you that the source PC is being prepared for Ghost Backup and Transfer.*

5   Wait until a dialog appears with the following message:

> Please insert a WinPE installation CD into the CDROM drive of the destination machine and reboot it. Then press OK to reboot this system (the source PC).

6   The next steps are to boot both the destination and source PCs from Pre-Installation CDs, following the instructions in the next topic.

Transfer the Image

In the next phase of the Ghost Backup and Transfer process, both PCs start up from a WinPE startup CD or DVD.

➢ *On the Destination PC:*

1 MAKE SURE the PC is set to start up from the CD-ROM drive. (You may have to enter the BIOS to reset the boot sequence.)

2 Insert a WinPE installation CD into the CD-Rom drive on the destination PC and turn the power on. *The PC starts from the WinPE CD and goes through the following sequence:*

▪ Network initialization:

Initializing network...
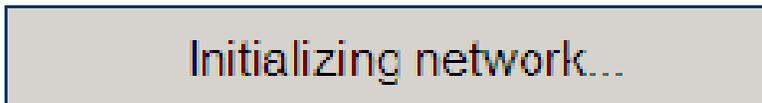
▪ Preparing the destination PC to launch GHOST peer-to-peer:

Preparing DESTINATION PC

Direct Migration

You're about to start a Direct Migration from the DESTINATION PC.

NOTE: All partitions and data on the hard drive will be removed. There will be no way to recover data once this process hangs.
To continue, press OK.
To cancel, press Cancel.

[OK]   [Cancel]
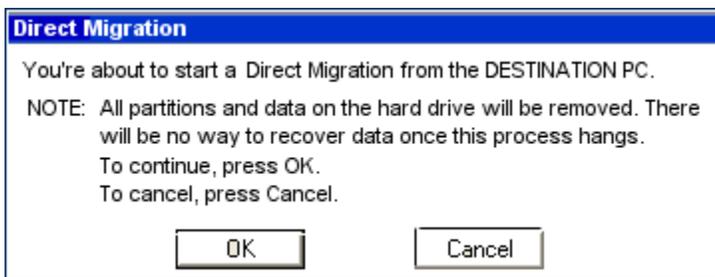
3 Click OK. *The following dialog appears, showing the IP address of the destination machine..*
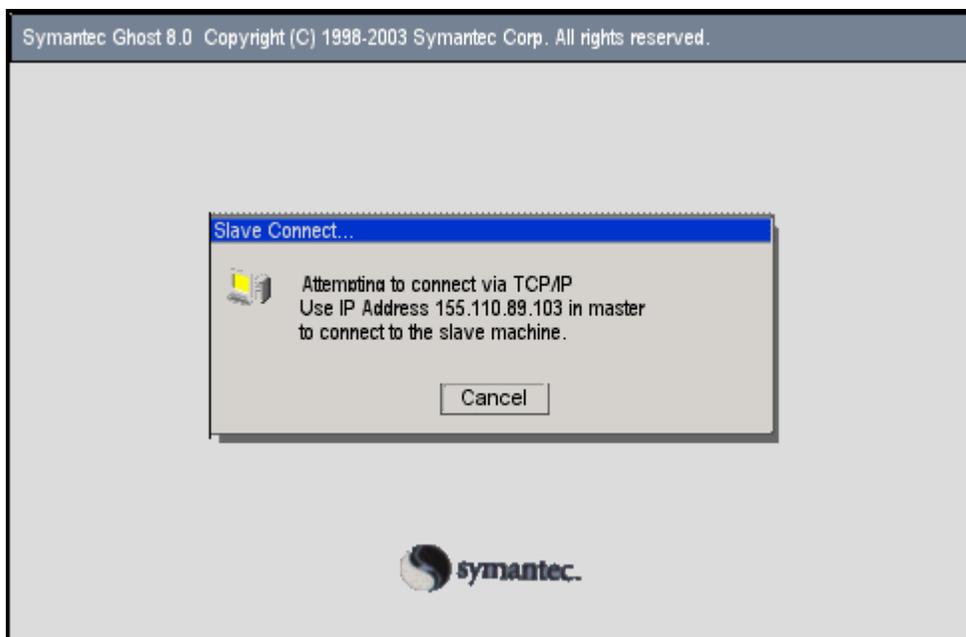
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Slave Connect...

Attempting to connect via TCP/IP
Use IP Address 155.110.89.103 in master
to connect to the slave machine.

[Cancel]

symantec.

> ⚠ **CAUTION** If the IP address is 127.0.0.1, the network has not been detected correctly. Check to make sure the destination PC is connected to the LAN via network cable or directly to a source PC via crossover cable.

➢ *On the Source PC:*

1 Insert a WinPE Pre-Installation CD into the CD-ROM drive on the source PC and click OK. (MAKE SURE the PC is set to start up from the CD-ROM drive; you may have to enter the BIOS to reset the boot sequence.)
The PC starts from the WinPE CD and goes through the following sequence:

▪ Network initialization:

Initializing network...
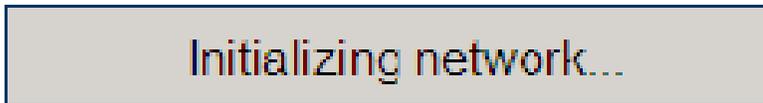
▪ Preparing the source PC to launch GHOST peer-to-peer:

Preparing SOURCE PC...
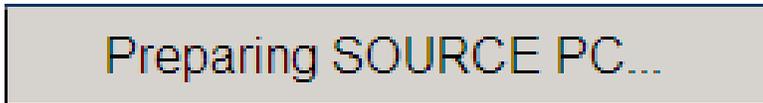
▪ Launching GHOST 32.exe from the WinPE CD:
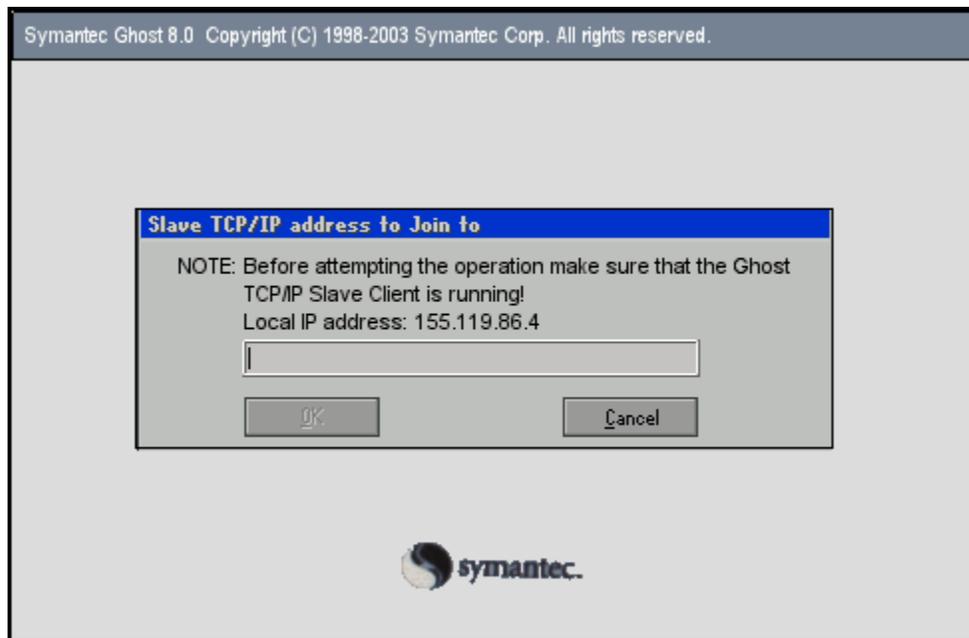
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Slave TCP/IP address to Join to

NOTE: Before attempting the operation make sure that the Ghost
TCP/IP Slave Client is running!
Local IP address: 155.119.86.4

[OK]   [Cancel]

symantec.

> ⚠ **CAUTION** If the IP address is 127.0.0.1, the network has not been detected correctly. Check to make sure the source PC is connected to the LAN via network cable or directly to a destination PC via crossover cable.

2 Enter the IP address of the destination PC (as it appeared in the Slave Connect... dialog-Step 3).

3 Click OK. Image transfer begins, with data going from the source PC to the destination PC over the TCP/IP connection.

4 When the data transfer is complete the CD on the source PC automatically ejects.

5 GHOST32.exe closes on the destination PC, and a cleanup script runs to import regional settings.

6   The destination PC reboots.
The backup/migration process is complete.