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Insight® for Personal Computers Software, Rev. 2.8

This document consists of two major sections:

- The first section, *Setting Up Your New PC* contains information on how to configure the hardware for your new PC.
- The second section, *Installing Software* provides complete instructions for the possible installation or upgrade scenarios at your site, including optional installation procedures, which you may or may not need for your installation.

If you are installing a new system or performing both a hardware and software upgrade, begin with *Setting Up Your New PC* for instructions on configuring your hardware, and then continue with *Installing Software.*

If you are performing a software upgrade only, then start with *Installing Software* for software upgrade instructions.

INSTALLATION CONVENTION

CAUTION	⚠	Equipment damage, or loss of data may occur if the user does not follow procedure as specified.

SYSTEM REQUIREMENTS

The following system requirements are required when installing Insight 2.8 software on a new PC.

- Pentium-II, 300MHz Processor.
- 32MB RAM.
- 3.0GB Hard Drive or greater.
- High-density 3.5 inch floppy disk drive and a CD-ROM drive.
- VGA (or higher resolution) video display adapter.
- Mouse or other input device.
- Windows 95/98

TABLE OF CONTENTS

Read and follow these instructions carefully. The installation instructions for this software package are significantly different from other software installation instructions.

Setting Up Your New PC

This section contains information on setting up your new PC. These procedures must be followed if you are doing one of the following:

- Installing a new system.
- Performing both a hardware and software upgrade on an existing system.

When you are finished setting up your new PC, proceed to the *Installing Software* section.

Verifying the Shipment

Verify that you have received the following items:

- System unit
- Printer
- Monitor
- Mouse
- Microsoft Windows 95/98 (Windows 3.1x for PC Networking Across Ethernet systems)
- Surge protector
- 25-pin male to 9-pin female serial cable (ordered separately, part number 536-004)
- Ethernet card for PC Networking Across Ethernet Option (optional, requires Windows 3.1)

If the shipment is incomplete, incorrect, or damaged, then contact the vendor *immediately.*

If all hardware is in order, then continue the installation by verifying that the hardware is configured correctly.

Verifying Hardware Configuration

Verify the configuration of the PC by following these steps:

1. Remove the cover of the PC to reveal the internal components.

2. If you have optional cards, then verify that they are present.

3. Verify that all optional cards are firmly inserted in their slots. The cards should be fastened to the slots to hold them in place.

4. Replace the cover of the PC.

Connecting the Mouse, Keyboard, Monitor, and Printer

1. Arrange the mouse, keyboard, monitor, and printer in the workspace.

2. Connect the Software Sentinel (enclosed with the Insight software) to the parallel printer port at the rear of the PC. If the workspace cannot accommodate the Software Sentinel, then order ribbon cable assembly 536-008 and insert it between the Software Sentinel and the parallel port. The ribbon cable allows the Software Sentinel to be moved off to the side or to hang over the edge of a desk.

3. Connect the printer cable to the back of the Software Sentinel and to the printer.

4. Connect the keyboard, monitor, and mouse to the back of the PC using the cables provided with each.

5. Connect the PC power cord and the monitor power cord.

6. For dedicated trunks, connect the Trunk Interface to the serial port. For dial-up trunks, connect the modem to the serial port.

7. If you have the Extended Network option, then connect the second Trunk Interface to the second serial port. If you have the PC Networking Across Ethernet option, then attach the appropriate Ethernet connector (BNC T, 15-pin AUI or RJ-45) to the Ethernet card. Refer to the *PC Networking Across Ethernet Software Option Installation Instructions* that you received with your software option disks for information on configuring and installing the PC Networking Across Ethernet option.

8. Before connecting the surge protector to the power source, plug the PC, monitor, and printer power cords into the surge protector. Next, with the surge protector switch OFF, plug the surge protector into the outlet.

9. Switch the surge protector ON and turn on your monitor, your printer, and then your PC.

10. The PC setup is complete. Proceed to the *Installing Software* section.

Installing Software

General Instructions

This section provides complete instructions for upgrading any previous revision of Insight software to Revision 2.8.

Certain prerequisites must be met before preceding with an Insight 2.8 installation or upgrade. These prerequisites vary depending on whether you are installing a new system, upgrading your software only, or upgrading your software and hardware. The prerequisites for each of these situations follow.

Installing a New System

Follow the *New System* installation procedures shown in Table 1. Perform the instructions in each section appropriate for your system. The chart at the top of each section indicates whether the section is required or optional for installing a new system. If a section is not a requirement or option, skip to the next section.

Installing a Software Upgrade

- For systems running Insight 2.3 and earlier, print a Key Event report (previously the Key Element report) from within Insight before beginning the upgrade. The information in this report will be lost during the upgrade for systems running Insight 2.3 and earlier. The Key Event report lists the alarms received by the network and their acknowledgments.

- If you are upgrading software only, follow the procedures in Table 1 that match your current Insight configuration. Perform the instructions in each section appropriate for your system. The chart at the top of each section indicates whether the section is required or optional for your current software configuration. If a section is not a requirement or option, skip to the next section.

Installing a Hardware and Software Upgrade

- For systems running Insight 2.3 and earlier, print a Key Event report (previously the Key Element report) from within Insight before beginning the upgrade. The information in this report will be lost during the upgrade for systems running Insight 2.3 and earlier. The Key Event Display report lists the system alarms received by the network and their acknowledgments.

- Follow the *Hardware and Software Upgrade* installation procedures shown in Table 1. Perform the instructions in each section appropriate for your system. The chart at the top of each section indicates whether the section is required or optional for hardware and software upgrades. If a section is not a requirement or option, skip to the next section.

> **CAUTION:**
> When upgrading Insight on an Ethernet network, all PCs must be upgraded to Insight 2.7 / 2.8 and all PDP-11 terminals must be upgraded to Insight for Minicomputers version K.0. Contact your field representative for more information about Insight for Minicomputers version K.0 and upgrading Insight on an Ethernet network.

Table 1. Installation Scenarios for Insight Revision 2.8

Step #	Installation Procedures	Page	Upgrade from Insight Version							New System	Hardware and Software Upgrade
			1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7		
1	Backing Up An Existing Insight Database	5	X	X	X	X	X	X	X	X	X
2	Transferring the Insight Database to a New PC	9	O								X
3	Running the Pre-Installation Software	12	X	X							
4	Installing Microsoft Windows Version 3.1	13	X	X							
5	Installing DOS Upgrades	15	X	X	X						
6	Upgrading to Windows 95/98	17			O	O	O	O	O		
7	Installing Insight Software	20	X	X	X	X	X	X	X	X	X
8	Verifying CONFIG.SYS and AUTOEXEC.BAT Files	22	X	X	X	X	X	X	X	X	X
9	Configuring Printer and Video Drivers:	24									
	• Okidata Microline 590	24	O	O	O	O	O	O	O	O	O
	• Dot Matrix Epson FX850	25			O	O	O	O	O	O	
	• Digital Celebris	25					O	O	O	O	
	• Compaq Deskpro	26							O	O	
10	Running the Alarm Segregation Utility	27		X							
11	Running the Graphic File Conversion Utility	28	X	X							O
12	Performing Controller Application Uploads or LAN Updates	31	X	X	X	X					O
13	Enabling the Hard Disk Test	33	O	O	O	O	O	O	O	O	O
14	Supporting SVGA Resolution Modes	34			O	O	O				O
15	Repartitioning the Hard Drive	36	O	O	O	O	O				
16	Adding Microsoft Excel to Insight	39	O	O	O	O	O	O	O	O	O
17	Performing a Site Backup	40	X	X	X	X	X	X	X	X	X

X = required step   O = optional step   Blank = step is not necessary

Complete the instructions in each section of the installation manual appropriate for your system. The chart at the top of each section indicates whether the section is required or optional for the upgrade or installation. If a section is not a requirement or option, skip to the next section.

1: Backing Up An Existing Insight Database

| | | Upgrading from Insight PC Revision: | | | | | | | Hardware & |
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Software Upgrade
Required	•	•	•	•	•	•	•	•	•
Optional									

There are recommended backup procedures for systems running Windows 95/98, Windows 3.1, DOS 6, and DOS 5. Procedures for Windows 3.1 and DOS 6 users also vary for IBM PCs and Non-IBM PCs. Follow the procedure appropriate for your system.

NOTE: When installing Insight 2.8 on a new system, always back up the Insight database you will be transferring before you begin the installation. If you are not transferring an existing database, you will only need to perform a site backup after your installation is complete.

Performing a Backup of Insight PC

Before performing a backup, read the following general guidelines:

- When performing a site backup, it is recommended that you choose the INTSITE.SET setup file. If you do not use INSITE.SET, make sure the following files are included in any site backup:

  c:*.* (exclude subdirectories)
  c:\int\impure*.* (exclude subdirectories)
  c:\networks*.* (include subdirectories)
  c:\windows*.ini (include subdirectories)

- If an Ethernet subdirectory exists, also include c:\ethernet*.* (including subdirectories)

- If you have the QBIC option, also include the appropriate CMMS directories.

- Turn off the compression option for any utility used to perform an Insight backup. This will help avoid data corruption and simplify data transfer between PCs.

- Depending on the size of your database, you may be prompted to insert another disk to continue the backup procedure. Make sure you have enough blank disks available to complete the backup. Label each disk, including the date of the backup, and number the disks in the order they are used.

CAUTION:
Before you begin this installation, you must perform an Insight site backup using blank formatted floppy disks. Store all the backup disks together on the job site in a safe place. Failure to perform a site backup may compromise your system integrity.

Proceed with the backup method appropriate for your system.

Performing a Site Backup in Windows 95/98

Use the Windows 95/98 Microsoft Backup utility to backup your databases. This utility is run in Windows 95/98.

1. Click the **Start** button, click **Programs,** click **Accessories,** click **System Tools,** and then click **Backup.**

   The Microsoft Backup dialog box displays.

   NOTE: If **Backup** is not displayed in the list, you must install it from the Windows 95/98 CD-ROM. Refer to your *Windows 3.1* manual for more information.

2. Click the **Backup** tab.

3. In the **Select files to back up** field, click the **Plus** sign (+) next to the letter of your PCs hard drive (usually C:) to display the contents of the drive.

4. Right-click the empty box next to the Networks folder and then click **Tag/Untag** to select the subdirectories and files contained in the folder. A checkmark appears next to the selected file.

   NOTE: You must create the INTSITE.SET configuration the first time you make a backup in Windows 95/98. Be sure to select all the files listed in the *Performing a Backup of Insight PC* section.

5. When you have selected the files to be backed up, click **Next Step>** to select a destination for the backup. Click **File** and then click **Save As.** Under

File Name type INTSITE.SET and click OK. This saves the files as one configuration.

6. Insert a blank, formatted floppy disk into the A: drive.

7. Click A: as the destination drive for the back up. Click **Start Backup.**

8. When the Backup Set Label dialog displays, type a name for the backup set and then click OK. Follow the command prompts to complete the backup.

9. The Operation Complete dialog box displays. Click OK twice to clear the dialog box and close the Backup dialog box.

The Windows 95/98 Microsoft Backup procedure is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Performing a Site Backup in Windows 3.1 Using a Non-IBM PC

1. From the menu bar in Windows File Manager click **File** and then click **Run.**

2. In the command line type **mwbackup** and then click OK.

   NOTE: The first time you run the backup program, the system asks you to configure the backup parameters. Configuration requires at least two blank, formatted floppy disks. Follow the configuration prompts, and then save the configuration before continuing with your backup.

3. In the **Setup File** field, click the **Down Arrow** to display a list of backup options. Select **intsite.set** for an Insight PC site backup, or select **intfull.set** for a full backup of the Insight software, networks, and the Insight site information.

4. Verify that "Some Files" appears next to the drive letter in the Backup From list box.

   The number of disks needed for the backup and the estimated backup time are listed next to the select files button.

   NOTE: Make sure you have enough blank disks available to complete the backup. Number and label each disk before beginning the backup.

5. Verify that the Backup Type is set to **Full.** If not, click the **Down Arrow** to display the various backup types, and select **Full** from the list.

6. Press **Tab** to highlight the Backup To option. Click on the **Down Arrow** to select the floppy drive A: and press **Enter.**

7. Click **Start Backup** to start the backup procedure.

   Follow the instructions on your screen to complete the site backup. Refer to your *Windows 3.1* manual for details of the Backup utility.

8. When the Backup Complete screen is displayed, click OK.

The site backup is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Performing a Site Backup in Windows 3.1 Using an IBM PC

1. From the menu bar in Windows File Manager click **File** and then click **Run.**

2. In the command line type **cpbackup** and then click OK.

   NOTE: The first time you run the backup program, the system asks you to configure the backup parameters. Configuration requires one blank, formatted floppy disk. Follow the configuration prompts, and then save the configuration before continuing with your backup.

3. Double-click **Backup.**

   The Backup screen displays.

4. Press the **Tab** key until the **Backup From** field is highlighted. If there is a (√) next to a drive letter, the utility backs up all files on that drive. To select or deselect a drive, highlight that drive with the arrow keys and press the **Space Bar** twice. Verify that only the drive you wish to backup is selected.

5. If you do not need to back up every file on a drive, press the **Tab** key until **Select Files for Backup** is highlighted, and press **Enter.**

6. The number of files selected and the number of disks needed for the backup are displayed in the status box in the lower left corner of the Backup screen.

   NOTE: Make sure you have enough blank disks available to complete the backup. Number and label each disk before beginning the backup.

7. Verify that the floppy drive A: is selected under Backup To, and **Full** is selected under Method. If

not, then **Tab** to the appropriate field, press **Enter**, and select the drive letter.

8. Press the **Tab** key to select **Start Backup**, and then press **Enter**.

9. The system prompts you to name the backup set. Type a descriptive name for the backup set.

10. Press **Tab** to select **OK**, and press **Enter**. The backup process begins. Follow the system prompts to backup the selected drive(s).

11. When the Backup Complete screen displays, press **Enter**.

The site backup is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Performing a Site Backup in DOS 6 Using a Non-IBM PC

1. Select **Backup** from the DOS/Insight startup menu to run Microsoft Backup for DOS. This program can also be started from the C:\> prompt by typing **cd\DOS** and pressing **Enter**. Then type **msbackup** and press **Enter**.

   NOTE: The first time you run the backup program, the system asks you to configure the backup parameters. Configuration requires at least two blank, formatted floppy disks. Follow the configuration prompts, and then save the configuration before continuing with your backup.

2. Press **B** to select **Backup**.

3. Press the **Tab** key until the Setup File field is highlighted and press **Enter** to display a list of backup options. Select **intsite.set** for an Insight PC site backup, or select **intfull.set** for a full backup of the Insight software, networks, and the Insight site information. In the list use the down arrow to scroll to the proper backup option, press the **Space bar**, and press **Enter**.

4. Press the **Tab** key to select the BACKUP From list box. Use the arrow keys to highlight the drives you wish to backup.

5. Verify that "Some Files" appears next to the drive letter(s) in the Backup From list box.

   The number of disks needed for the backup are listed next to the select files button.

6. Press the **Tab** key to highlight the Backup Type option. If the Backup Type is not set to **Full**, press

Enter to bring up the dialogue box. Press F to select **Full**, and then press **Enter**.

7. Press the **Tab** key to highlight the Backup To option and then press **Enter**. Type A: to select the floppy drive and press **Enter**.

8. Press the **Tab** key to highlight the Start Backup button, and then press **Enter** to start the backup. Follow the instructions on the screen to complete the site backup.

9. When the Backup Complete screen displays, click OK.

The site backup is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Performing a Site Backup from DOS 6 Using an IBM PC

1. Select **Backup** from the DOS/Insight startup menu to run the IBM DOS backup utility. If the Ethernet option is installed, the backup program cannot be accessed from the Start menu. You must start the program from the C:\> prompt by typing **cd\DOS** and pressing **Enter**, and then typing **cpbackup** and pressing **Enter**.

   NOTE: The first time you run the backup program, the system asks you to configure the backup parameters. Configuration requires one blank, formatted floppy disk. Follow the configuration prompts, and then save the configuration before continuing with the backup.

2. Press the **Tab** key until the Backup option is highlighted, and then press **Enter**. The Backup screen displays.

3. Press the **Tab** key until the Backup From field is highlighted. If there is a (√) next to a drive letter, the utility backs up all files on that drive. To select or deselect a drive, highlight that drive with the arrow keys and press the **Space Bar** twice. Verify that only the drive you wish to back up is selected.

4. If you do not need to backup every file on a drive, press the **Tab** key until **Select Files for Backup** is highlighted, and press **Enter**.

5. Press **F10** to go back to the main Central Point Backup Screen.

   The number of disks needed for the backup are displayed in the status box in the lower left corner of the Backup screen.

6. Verify that the floppy drive **A:** is selected under Backup To, and **Full** is selected under Method. If not, then press the **Tab** key to the appropriate field, and select the appropriate option.

7. Press the **Tab** key to select **Start Backup**, and then press **Enter**.

8. The system prompts you to name the backup set. Type a descriptive name for the backup set.

9. Press the **Tab** key to select **OK**, and press **Enter**. The backup process begins. Follow the system prompts to backup your selected drive(s).

10. When the Backup Complete screen displays, press **Enter**.

The site backup is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Performing a Site Backup in DOS 5

1. From the DOS prompt, display the DOS/Insight Start-Up menu. Type **Insight** and press **Enter**.

2. Insert a blank, formatted disk in the floppy drive. Make sure you label any floppy disks used in the backup in sequential order.

3. At the DOS/Insight Start-Up Menu, display the Backup Menu. Type **B**.

4. Select a backup option. To perform a site backup, type **S**.

5. Type A: to select the floppy drive and follow the system prompts. Refer to your *DOS 5* manual for details on the backup system.

6. When the Backup Complete screen displays, press **Enter**.

7. Remove the last disk from the floppy drive and store all of the disks from the backup together.

The site backup is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

2: Transferring the Insight Database to a New PC

	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Hardware & Software Upgrade
			Upgrading from Insight PC Revision:						
Required									•
Optional	•								

For New Systems Running Windows 95/98

If you are switching from a PC running Windows 3.1 to a new PC running Windows 95/98, the new PC may not have the support for restoring the database backup from the old hardware. As Windows 95/98 does not include the DOS 6.X MS Backup utility, you must copy the MS Backup files, the .SET files, and the Insight database from the machine running Windows 3.1 to the machine running Windows 95/98.

Next, you must restore the Insight database in Windows 95/98 using the MS Backup utility. When the database is restored, future backups can be made using the Windows 95/98 Backup utility. Perform the following steps to copy and restore the database.

Transfer the Files

1. On the machine running Windows 3.1, shut down to DOS.

2. Insert a blank floppy disk into the floppy drive (A or B, depending on how the system is configured).

3. At the C:\> prompt, type **cd dos** to change to the DOS subdirectory.

4. Type **copy msb*.* a:** and press **Enter**. This command copies the MS Backup utility (and related files) to the floppy disk.

5. Type **copy *.set a:** and press **Enter**. This command copies the .SET files to the floppy disk.

6. Remove the floppy disk from the machine and insert it into the machine running Windows 95/98.

Prepare the New System

1. Double-click the MS DOS icon to open the MS DOS window.

2. Type **copy a:*.* c:\dos Enter**. This command copies all of the files from the floppy disk into the newly created DOS subdirectory.

3. From the C:\> prompt, type **cd dos** and press **Enter**.

4. Go to the DOS subdirectory. Verify that all of the files were copied by going to the C:\DOS> prompt, and typing **dir** and press **Enter**.

Run the Restore Procedure

1. From the C:\DOS prompt of the Windows 95/98 machine, type **msbackup**. The Microsoft Backup dialog box displays.

2. Type R to select Restore.

3. Type G to select Catalog.

4. Type ALT+R. The Retrieve Catalog dialog box displays.

5. A message box displays prompting you to insert the last disk of the backup set. Insert the last disk of your backup set into the floppy drive (A or B). Type C to continue. The backup catalog is retrieved.

6. A message box displays informing you that the file has been retrieved and placed in the DOS subdirectory. Press **Enter**. The catalog file will be displayed in the files list box with a checkmark indicating that it is selected. Press **Enter** to return to the Restore display screen.

7. Type L to select files. The Select Restore Files dialog box displays.

8. Use the down arrow to scroll to and display the contents of the INT subdirectory. Press the **Space Bar** to select any files. A checkmark next to a file indicates that the file is selected.

9. Repeat Step 8 for the IMPURE and SYMBOLS subdirectories.

10. Use the down arrow to scroll to and display the contents of the NETWORKS subdirectory.

11. Repeat Step 8 for the YOUR NETWORK NAME, DATABASE, GRAPHICS, PROGRAMS, TOD, and TREND subdirectories and press **Enter**.

Siemens Building Technologies, Inc.
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The Restore screen displays.

12. Press **ALT+S** to start the Restore process. Follow the screen prompts to complete the restore procedure. When the Restore procedure is completed, the Restore details screen displays. Press **Enter**.

The Insight database is restored. Future backups should be performed using the Windows 95/98 backup procedure.

NOTE: It is recommended that you retain the newly-created DOS subdirectory, the MS Backup utility, and the .SET files that were copied onto the Windows 95/98 system.

For Existing Systems Running Windows 3.1 or Windows 95/98

1. Verify that the floppy drive on the new PC is compatible with the floppy drive on the old PC (for example, both are 3.5" drives). If not, then you must have a way to transfer the database to the new PC before beginning the installation.

2. Restore your database to the new PC using one of the two recommended restore procedures, as follows:

If You Backed Up With DOS 5 or Earlier

1. On the new PC, insert the Insight disk labeled "Insight for Personal Computers Installation Disk 1" into the floppy drive.

2. To access the floppy drive, at the C:\> prompt, type **A:** and press **Enter**. The A:\> prompt is displayed.

3. Transfer the databases to the new PC.

4. At the C:\> prompt, type **sitecopy a: c:** and press **Enter**.

5. The system prompts you for the backup disks you created earlier. Read the instructions on the screen and insert each disk when prompted.

If You Backed Up With DOS 6 or Later

1. On the new PC, restore your database using the DOS backup utility. Refer to your *DOS 6* manual for information about the DOS backup utility.

Restoring IBM Windows 3.1 Based Insight Databases on Systems Running Windows 95/98

If you are restoring an Insight backup from a Windows 3.1 based IBM computer, to a Windows 95/98 based computer, restore your database using the following procedures.

Transfer the Files

1. On the machine running Windows 3.1, shut down to DOS.

2. Insert a blank floppy disk into the floppy drive A: (depending on how your system is configured).

3. At the C:\> prompt, type **cd\dos** to change to the DOS subdirectory.

4. Type **copy cp*.* a:** and press **Enter**. This command copies the Central Point Backup utility (and related files) to the floppy disk.

5. Remove the floppy disk from the machine running Windows 3.1 and then insert it into the machine running Windows 95/98.

Prepare the New System

1. On the machine running Windows 95/98, click the **Start** button, point to **Programs** and then point to **MS-DOS Prompt** to open the MS-DOS window.

2. From the C:\> prompt, type **cd\dos** and press **Enter** to go to the DOS subdirectory. If the DOS subdirectory does not exist, the following message displays: `Invalid Directory`. Create the DOS directory by typing **md dos** at the C:\> prompt.

3. Insert the floppy disk containing the Central Point Backup files into the floppy drive (drive A:).

4. Type **copy a:\cp*.* c:\dos** and press **Enter**. This command copies all files on the floppy disk into the newly created DOS subdirectory.

5. To verify that all files were copied, from the C:\DOS> prompt, type **dir cp*.*** and press **Enter**.

6. Remove the disk from the floppy drive.

Run the Restore Procedure

1. From the C:\DOS prompt of the Windows 95/98 machine, type **cpbackup**.

   A **Central Point Backup** window displays the following message:

   ```
   This program is set to run in MS-DOS
   mode and cannot run while other
   programs are running.
   All other programs will close if you
   choose to continue. Do you want to
   continue?
   ```

541-150
Installation Instructions
Rev. 14, May, 1999

2. Select **Yes** to this message. Windows 95/98 will shut down and bring up the Central Point Backup Utility. After this, the Central Point Backup dialog box displays.

3. Type **R** to select Restore.

4. Type **U** to select the Setup type (INTFULL, INTNETS, INTSITE, etc.). Press **Enter** to select the type of backup you are restoring.

5. Make sure the Drive listed in the Restore To field is Drive C:\. Check this by pressing **E**, and change, if necessary, by pressing **Enter**.

6. Type **R** to select Restore From. Choose **A: 1.44 MB (3.5)** Drive.

7. Type **G** to select Files for Restoring.

8. A message box displays prompting you to `Insert the last disk of the backup set.` Insert the last disk of your backup set into the floppy drive (A or B) and press **Enter**.

9. If you used a password to back up your database, type the password into the password entry box and press **Enter**.

10. A directory tree will appear, highlighting the files to be restored. Once you have selected the proper files, press **Esc** to return to the Restore display screen.

CAUTION:
Be aware that restoring files (such as autoexec.bat, config.sys, win.ini, and system.ini) from a site or a full backup from a Windows 3.1 PC to a Windows 95/98 PC may have undesirable effects. This is because during the restore procedure, these files will be restored and will overwrite existing configuration files on the Windows 95/98 PC. This is something that you **do not** want to do. Therefore, for the above step, make sure you do not restore any files under the Windows subdirectory (such as win.ini, system.ini) or files such as config.sys and autoexec.bat.

11. Press **S** to start the Restore process. When the Restore procedure is completed, the Restore Completed screen displays. Press **Enter**.

12. Press **X** to exit and then press **Enter** to exit the Central Point Backup utility. The computer will then restart Windows 95/98, and your database is restored. Future backups should be performed using the Windows 95/98 backup procedure.

The Database transfer is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

3: Running the Pre-Installation Software

	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Hardware & Software Upgrade
			Upgrading from Insight PC Revision:						
Required	•	•							
Optional									

Complete the following instructions to run the Pre-Installation Software:

1. Shut down Insight to DOS.

2. Place the disk labeled "Insight for Personal Computers Installation Disk 1" in the floppy drive.

3. To access the floppy drive and run the pre-installation software, at the C:\> prompt type **A:** and press **Enter**. The A:\> prompt is displayed.

4. Type **preinst a: c:** and press **Enter**.

   The following message displays: `Do you wish to continue with pre-install (Y or N)?`

5. Type **Y** and press **Enter**.

   The following message displays: `Do you need your CONFIG.SYS updated (Y or N)?`

6. Type **Y** for yes and press **Enter**.

7. When the following message displays: `Pre-Installation is Complete,` remove the Installation disk and reboot the PC.

The pre-installation is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

4: Installing Microsoft Windows Version 3.1

| | | Upgrading from Insight PC Revision: | | | | | | | Hardware & |
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Software Upgrade
Required	•	•							
Optional									

1. To determine how your PCs hard disk is partitioned. At the C:\> prompt, type **D:** and press **Enter**.

•   If the `Invalid drive specification` message displays, then the hard disk has one partition (drive C). In this case, install Microsoft Windows on drive C.

•   If the D:\> prompt is displayed, then the hard disk has multiple partitions (drive C, drive D, etc.). In this case, you may install Microsoft Windows on drive D.

    The drive must have at least 10 MB free disk space to install Windows. Make a note of the drive on which you are installing Windows; you will be prompted for this information later in this installation.

2. Insert the "Microsoft Windows installation Disk 1" into the floppy drive.

3. To access the floppy drive, Type **A:** and press **Enter**. The A:\> prompt is displayed.

4. At the A:\> prompt, type **setup** and press **Enter**.

5. The installation begins. When the Welcome to Setup screen displays, press **Enter** to continue. During the installation, the system prompts you to insert each installation disk. You are also prompted to supply information about your system. Read the information and respond as follows:

•   **Express/Custom Setup:** Select Custom setup by typing: **C**.

•   **Windows Directory:** The system asks you to specify the directory in which you want Windows installed. The default is **C:\WINDOWS**. In Step 1, if you determined that the hard disk has only one partition, then accept the default. If you determined that the hard disk has multiple partitions and want to put Windows on a different partition, then use the backspace key to delete the default directory, and then change the directory to D:\WINDOWS. Press **Enter**.

•   **Hardware and Software Components:** The system displays a list of the hardware and software components it detects on your PC. The list should show the following components (the Code Page line is optional):

Computer:	MS-DOS or IBM DOS System
Display:	VGA or Super VGA
Mouse:	Microsoft, Logitech or IBM PS/2
Keyboard:	Enhanced 101 or 102 key US and Non US keyboards
Keyboard Layout:	US
Language:	English (American)
Code Page:	English (437)
Network:	No Network Installed

6. If the list does not show these components, then modify the list by following the instructions given on the screen.

7. When you are finished, press **Enter** to continue and wait while the system copies files to your hard disk. Insert Disk #2 when prompted, press **Enter**.

- **Your Name/Company Name:** When the Windows Setup screen displays, the system asks you to enter your name and the company name. Type the site name in both places and click **Continue**. You will be prompted to verify that what was typed is correct. Click **Continue** if the information you typed is correct.

- **Windows Setup:** The system displays three setup options; they are all selected. Only **Set Up Printers** should be selected; use the mouse to **de-select** the other choices as shown:

  ☐   Set Up Only Windows Components You Select

  ☒   Set Up Printers

  ☐   Set Up Applications Already on Hard Disk(s)

8. Click **Continue**.

- **Virtual Memory:** If the PC has 8MB of RAM or below, then set up virtual memory as permanent with a size of 4096. If the PC has more than 8MB of RAM, then set up virtual memory as permanent with a size of 2048.

- **CONFIG.SYS and AUTOEXEC.BAT Files:** The system asks you to specify how changes to the CONFIG.SYS and AUTOEXEC.BAT files should be made. Select the default response (which instructs the system to make all modifications for you) by clicking on **Continue**.

- **Printer Setup:** The system displays the Printers window. From the list of printers, select the printer type as follows:

If your printer is an:	then click:
Epson FX-850	Epson FX-850
Epson FX-870	Epson FX-870
Epson LQ 860	LQ 2500
Epson Stylus ProColor	HP Laserjet SP
Inkjet	Laser
IBM Proprinter	IBM Proprinter
IBM Proprinter II	IBM Proprinter II
IBM Proprinter III	IBM Proprinter III
IBM PPS II	*
Okidata Microline 590	*

*The IBM PPS II and Okidata Microline 590 printers cannot be set up until the Insight software has been installed. Click the **Continue** button and complete the Windows installation.

After you select your printer type, click the **Install** button. The printer you selected appears in the Installed Printers box. The default connection is LPT1. If you are using a printer port other than LPT1, click the **Connect** button and select the port you are using.

9. Click **Continue**.

- **Tutorial:** Click **Skip Tutorial**.

10. Remove the disk from the drive and reboot the PC by clicking **Reboot**.

The Microsoft Windows installation is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

5: Installing DOS Upgrades

| | | Upgrading from Insight PC Revision: | | | | | | | Hardware & |
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Software Upgrade
Required	●	●	●						
Optional									

You need two high-density, blank, formatted floppy disks for this procedure. These disks must be the correct media type (3.5" or 5¼") for drive A on your PC.

Label one of the disks "Uninstall 1". You will be prompted to insert this disk during the upgrade procedure. IBM-DOS allows you to decide whether or not to produce an Uninstall disk. MS-DOS requires an Uninstall disk. The upgrade program stores information about the old version of DOS on these disks.

NOTE: During the installation of both MS-DOS and IBM DOS, you will be asked if you want to install the DOS and/or Windows versions of several applications. Be sure to select both DOS and Windows for the listed applications, as shown in this procedure.

1. Insert the DOS Upgrade disk labeled "Disk 1 Setup" in drive A or drive B.

2. At the C:\> prompt, type a:setup Enter.

3. The upgrade process begins. During the upgrade, the system prompts you for each DOS installation disk. Continue with this procedure to verify and/or modify settings, programs, and directories presented by the setup program.

    If you need help, press the F1 key.

4. This step of the upgrade procedure varies depending on which type of DOS (Microsoft or IBM) you are installing. Refer to the appropriate upgrade information for your system type, as follows:

    ● **If you are installing MS-DOS 6,** verify that the programs installed for MS-DOS match the following example. Make sure that all of the program selectors are set to load both the Windows and MS-DOS versions of each program.

The programs installed for MS-DOS should be:

Backup:	Windows and MS-DOS
Undelete:	Windows and MS-DOS
AntiVirus:	Windows and MS-DOS

Press **Enter** to accept the displayed programs and continue with the setup procedure.

● **If you are installing IBM-DOS 6,** verify that the programs installed for IBM-DOS match the following example. Make sure that both the Windows and IBM-DOS versions of each program are set to YES. The programs installed for IBM-DOS should be:

IBM AntiVirus/DOS for Windows	1575 KB :YES
IBM AntiVirus/DOS	875 KB :YES
IBM DOS Shell	335 KB :NO
Central Point Backup for Windows	2935 KB :YES
Central Point Backup for DOS	1095 KB :YES

Press **Enter** to accept the displayed programs and then continue with the setup procedure.

⚠ CAUTION:
Do not use the disk compression or memory optimization applications that are supplied with MS-DOS 6 and IBM DOS 6. Use of these files may compromise your system integrity.

5. Remove all disks and reboot the system when the DOS installation is complete.

6. Create a system disk. To do this, insert a blank, formatted floppy disk into drive A. Next, at the C:\> prompt, type sys a: and press Enter.

7. DOS copies system files to the floppy disk. When the following message displays, `System Transferred`, remove the disk from the drive, label it "DOS System Disk," and leave it on the job site in a safe place.

> **CAUTION:**
> Do not skip this step. The system disk is required to start your PC if your hard disk fails. You cannot start your PC using the upgrade disks supplied with DOS.

The DOS installation procedure is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

6: Upgrading to Windows 95/98 from Windows 3.1

	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Hardware & Software Upgrade
			Upgrading from Insight PC Revision:						
Required									
Optional			•		•		•	•	•

NOTE: Siemens Building Technologies is not responsible for providing any upgrades for hardware, software, or network drivers as part of the Windows 95/98 upgrade. It is the responsibility of the customer site to procure any upgrade software/devices for use during the Windows 95/98 upgrade

These instructions are for existing users of Insight who are upgrading their computer's operating systems from Windows 3.1 to Windows 95/98. The following instructions will guide you through the Windows 95/98 installation procedure. For more information on Windows 95/98 functionality with Insight, refer to *Chapter 1, Getting Started*, in the Introduction volume of the Insight 2.8 user's set.

NOTE: Windows 95/98 is not compatible with Insight sites that have the PC Networking across Ethernet option installed. Do not upgrade these sites with Windows 95/98 because they will not work properly.

Before the Windows 95/98 Upgrade

Following are some basic procedures that should be followed before upgrading your system to Windows 95/98.

- Use the diagnostics software that came with your system (SCANDISK or any third-party diagnostic software such as Norton Disk Doctor) to perform a disk diagnostics of your system. Fix any problems that the software finds.
- Make a backup of all of the files on your system. This step should always precede any type of upgrade.
- Remove all memory managers (such as QEMM or EMM386), anti-virus programs (such as MSAV), BIOS anti-virus must also be disabled if one exists, and other specific program TSRs that might interfere with the installation of Windows 95/98.

NOTE: If the PC on which you are installing Windows 95/98 has hardware devices connected to it (modems, network adapter, CD ROM) or any network files in the AUTOEXEC.BAT or CONFIG.SYS files, the hardware devices and network files **should not** be removed. The installation will prompt you if your PC has any additional hardware devices attached.

It is recommended that you install the Windows 95/98 versions of any device drivers currently on your system.

1. Edit the \INT\INSIGHT.BAT and \AUTOEXEC.BAT files and comment out the SETSYSIN W line (type REM in front of the line) if it exists. Repeat this procedure in any .BAT file where the SETSYSIN line may reside.

2. Remove the **CALL INSIGHT** line from the AUTOEXEC.BAT file.

3. Reboot your computer under the new configuration.

Performing the Windows 95/98 Upgrade

While performing the installation, you will need one blank 3.5" floppy diskette for the Startup Emergency Boot Disk.

The installation goes through three phases when upgrading:

- Gathers system information and option selection.
- Deletes the old operating system and copies Windows 95/98.
- Reboots and resets the system.

NOTE: If you want to cancel the installation, you can only do so during the first phase of the installation procedure.

1. To determine how your PCs hard disk is partitioned, at the C:\> prompt, type D: and press **Enter**.

- If the following message displays: `Device is not ready. Not reading drive D`: then the hard disk has one partition (drive C). In this case, install Windows 95/98 on drive C.

- If the D:\> prompt is displayed, then the hard disk has multiple partitions (drive C, drive D, etc.). In this case, install Windows 95/98 on drive D.

2. Make a note of the drive on which you are installing Windows 95/98; you will be prompted for this information later in this installation.

3. Make a note of your Windows 95/98 Registration Number; you will be prompted for this information later in this installation.

4. Insert the Windows 95/98 Installation Disk 1 into the floppy drive.

5. It is required that you run the setup procedure from within Windows 3.1. In the Program Manager, select **File** from the menu bar and then select **Run**. The Run dialog box displays.

6. In the Command Line field type **a:\setup** and press **Enter**.

7. The Windows 95/98 Setup Dialog box displays. Click **Continue**.

   The Setup procedure performs a routine check of the system. The Windows 95/98 Setup Wizard is being prepared, which will guide you through the rest of the setup process. This will take a few minutes.

8. While the Setup Wizard is compiling, you are prompted to insert Disk #2 and then click **OK**.

9. At this point, you may click **Cancel** to discontinue the setup procedure.

   NOTE: This is the only time you can cancel the upgrade.

Running the Windows 95/98 Setup Wizard

This phase of the upgrade includes collecting information about your computer.

Following is a listing of the dialog boxes you will be prompted to provide responses for.

Choose Directory: The system asks you to choose the directory in which you want Windows 95/98 installed. The default is C:\WINDOWS. Click **Next** to accept this directory. If you want to specify another directory, click **Other Directory** and then click **Next**. Type a new

directory name and then click **Next**. It is strongly recommended that you install Windows 95/98 on top of Windows 3.1.

The Setup Wizard prepares the directory to receive the files. This takes a few minutes. The following questions and prompts will be displayed:

Setup Options: Select the kind of setup you prefer, and then click **Next**. Your choices are:

- **Typical** - Recommended for most computers (default).
- **Portable** - Windows will be set up with options that are useful to portable computers.
- **Compact** - To save disk space, none of the optional components will be installed
- **Custom** - For advanced users and system administrators who want to customize all available setup options.

User Information: When the User Information screen is displayed, the system asks you to enter your name and the company name. Type the site name in both places and click **Next**.

Product Identification: This number is used by Microsoft to register you as a certified user of the Windows 95/98 software. It is recommended that you copy this number down and save it for future use. Click **Next**.

Analyzing Your Computer: Setup checks to see what kind of hardware is in your computer. If your computer has a CD-ROM or sound/video card, click in the appropriate boxes. Click **Next** for Setup to check your system. This may take a few minutes.

Get Connected (optional): Setup prompts you to specify if you want to install Microsoft Network, Microsoft Mail, or Microsoft Fax options. Click **Next**.

Windows Components: Setup will install a variety of optional Windows components (games, disk tools, etc.). These can be installed now or later from the Windows Control Panel. Accept the default settings and then click **Next**.

Identification: Setup asks you to type a name for your computer, the workgroup it will appear in, and a short description of the computer. If this description is correct, select **Yes**. Depending on your system, this field may already be filled in. Click **Next**.

Startup Disk: Specify whether you want Setup to create a Startup Disk. Choose the default and then click **Next**.

Copying Windows 95/98 Files to Your Computer: Start copying files. Click **Next**. The copying files procedure begins.

1. You are asked to label a disk "Windows 95/98 Startup Disk" and insert it into drive A:.

2. After removing Disk #2, label and insert a blank, formatted 3.5" floppy disk into drive A: and click **OK** to continue. This takes a few minutes. When the process has finished, remove the disk and click **OK** to continue the setup procedure. This takes a few minutes.

3. When prompted to, insert each upgrade disk, click **OK**.

4. After the files have been copied, click **Finish**. Remove any disks from the A: drive. Setup will restart your computer.

After the computer restarts, Setup will configure any hardware devices installed on your computer, as well as windows applications (Control Panel, Windows Help, Printer).

Date/Time Setup: The Date/Time Properties screen will prompt you. Select the appropriate Time Zone. To avoid conflicts with Insight's Daylight Savings Time application, deselect the **Automatically** adjust clock for daylight savings changes option. This option is located in the Date/Time Properties dialog box.

Printer Setup: The Printer Wizard will help you install your printer.

1. Specify if you have a Local or Network printer. Click **Next**.

2. Specify the manufacturer and model of your printer. Click **Next**.

3. Specify the port you want to use with the printer. Click **Next**.

4. Type a name for your printer. Click **Next**.

5. Specify if you want to print a test page (recommended). Click **Finish**.

6. Depending on the type of printer you specified, you may be prompted to insert one of the Windows 95/98 Installation disks again.

7: Installing Insight Software

| | Upgrading from Insight PC Revision: | | | | | | | | Hardware & |
| | 2.0 or | 2.2 | 2.2 | | | 2.5, 2.6 | New | Software |
	1.x	2.1	DOS 5	DOS 6	2.3	2.4	or 2.7	System	Upgrade
Required	●	●	●	●	●	●	●	●	●
Optional									

NOTE: A complete Designer software package is included with new Insight software shipments. Therefore, the Designer disks are for backup purposes only and should be stored in a safe place. The documentation included with Designer can be used for reference. The appropriate Designer files are included on the Insight software disks and are installed automatically during the Insight software installation.

NOTE: Insight 2.8 does not require the upgrade to Windows 95/98 operating environment. However, modifications were made to Insight to support the new Windows 95/98 software.

Verifying the AUTOEXEC.BAT and CONFIG.SYS Files

1. For new Windows 95/98 systems verify that the AUTOEXEC.BAT file exists. At the C:\> prompt, type **dir autoexec.bat** and press **Enter**. If the `File not found`, message displays then the AUTOEXEC.BAT does not exist and has to be created.

2. At the C:\> prompt, type **edit c:\autoexec.bat** and press **Enter**.

3. At the prompt, type SET PATH = C:\.

4. Press **ALT+F** then **X** to close the file.

5. For new Windows 95/98 systems verify that the CONFIG.SYS file exists. At the C:\> prompt, type **dir config.sys** and press **Enter**. If the `(File not found)`, message displays then the CONFIG.SYS file does not exist and has to be created.

6. At the C:\> prompt, type **edit c:\config.sys** and press **Enter**.

7. At the prompt, type the following lines:
   BUFFERS=16 and press **Enter**
   FILES=30

8. Press **ALT+F** then **X** to close the file. A message displays prompting you to save the file. Press **Enter**.

Installing Insight Software

1. Shut down any old versions of Insight.

2. Do one of the following:

   ● **For Windows 95/98:** Click the **Start** button, select **Programs** and then click **MS-DOS Prompt** to open the MS-DOS window.

   ● **For Windows 3.1:** Shut down Insight and Windows, and then go to DOS.

3. Insert the disk labeled "Installation Disk 1 of 5" into the floppy drive.

4. To access the floppy drive, at the C:\> prompt type a: (or b:) and press **Enter**. The A:\> prompt displays.

5. At the prompt (A:\> or B:\>), type **install c:** and press **Enter**.

6. For upgrades, a list of installed options will be displayed. If this is not correct press **ESC** and call Field Support. Otherwise, press any key to continue.

   The Insight for Personal Computers Installation Menu displays.

7. To select **Full Installation**, type **1**.

   The software installation begins.

8. If the installation program determines that there is enough free space, then proceed to Step 10.

9. If the installation program determines that there is not enough free space (less than 15 MB for a new installation or 7 MB for an upgrade), then:

   ● To display a directory from the root of drive C, at the C:\> prompt, type **dir c:** and press **Enter**.

- If the free space remaining is less than required, then move any non-Insight programs to other drives (such as D, E, etc.) or onto floppy disks. Display a directory from the root of drive C again. If the free space is still less than required, then you must repartition the hard drive. Instructions for repartitioning a hard drive are given in the *Repartitioning of the Hard Drive* section of this document. You will also need the *DOS* manual that came with the PC.

- When there is enough free space remaining on the drive (15 MB for a new installation,   7 MB for an upgrade), then attempt to install Insight again from Step 2 of this procedure.

10. During the installation, you are prompted to insert each disk. The fifth installation disk will run Windows.

For Windows 95/98

For systems running Windows 95/98, the Create Shortcut(s) dialog box displays. There are three options in this dialog box:

- Put Insight in Startup Folder so Insight will automatically start up on Windows startup.
- Place Insight on Start button.
- Place Insight on desktop.

Select your preference(s) and then click OK. The following messages displays: `For Insight to run properly, you must close the DOS window, shut down Windows and reboot your machine now. Do Not reboot while Windows is still running.`

Use the Start button to shut down and restart the computer for the changes to take affect.

For Windows 3.1

An Insight group and the Insight icon will be created in the Program Manager. Close the Program Manager to continue the installation. When the installation is complete, the following message displays: `Installation is complete. Reboot your PC.`

Remove the disk from the drive and reboot the PC by pressing **CTRL+ALT+DEL.**

NOTE: After the installation is completed, there must be at least 3 MB of free space.

For Insight Systems Running Windows 95/98.

When alarms are sent to the printer, your printer may only print one alarm per page. For ecological efficiency, change the printer setup mode to **Raw Mode** to have alarms print out normally. Perform this step after installing Windows 95/98.

CAUTION:
Do not skip the following steps.

To Modify Printer Configuration to Enable the Insight Event Printer:

1. Click the **Start** button on the Windows 95/98 desktop and then select **Settings.**

2. Select **Printers** and then double-click the icon for your printer. If your printer is already set up, an icon for your printer will appear in this folder.

3. Select **Printers** from the menu bar and then click **Properties** to open the Properties dialog box.

4. Click **Details** and then click **Spool Settings** to open the Spool Settings dialog box.

5. In the **Spool Data Format** field, click the **Down Arrow** and select **Raw Mode** and then click OK.

6. In the Details dialog box, click **Apply** for the changes to take effect.

The Insight software installation is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Differences between Insight Windows 3.1 and Windows 95/98

- The icons that display with Windows 3.1 at the bottom of the screen have been replaced with the Windows 95/98 Taskbar.

- The Alarm and Operator Message fields in the Taskbar display the current number of entries in the screens.

- As the Critical Alarm icon is not a true icon, it will not come to the top of (or break through) a screen saver.

- If the Date and Time window is moved to a location that is not obstructed by the Taskbar, Insight will save that location on shutdown and place the Date and Time window in the same place upon restart. If

this window is moved off the desktop, it will be
moved back on the desktop at the nearest location.

8: Verifying CONFIG.SYS and AUTOEXEC.BAT Files

| | Upgrading from Insight PC Revision: | | | | | | | | Hardware & |
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Software Upgrade
Required	●	●	●	●	●	●	●	●	●
Optional									

For Systems Running Windows 95/98

The following is an example configuration for systems running Windows 95/98.

1. From the C:\> prompt, type **type c:\CONFIG.SYS** and press **Enter**.

    The CONFIG.SYS file displays.

    ```
    FILES=30
    BUFFERS=16
    ```

2. From the C:\> prompt, type **type c:\AUTOEXEC.BAT** and press **Enter**.

    The AUTOEXEC.BAT file displays.

    ```
    SET PATH=C:\INT;C:\INT\TASKS;C:\;
    PROMPT=$P$G
    SET TEMP=C:\WINDOWS\TEMP
    ```

    Verification of the CONFIG.SYS and AUTOEXEC.BAT files is complete.

3. Proceed to the next section and perform the required or optional upgrade instructions.

For Systems Running Windows 3.1

Make sure that your CONFIG.SYS and AUTOEXEC.BAT files contain the statements shown in the following examples. This is necessary to allow your system access to the more recent DOS 6 versions of SETVER.EXE, HIMEM.SYS, and SMARTDRV.EXE.

1. From the C:\> prompt, type **type c:\CONFIG.SYS** and press **Enter**.

    The CONFIG.SYS file displays.

    NOTE: The following example shows statements that must be in your CONFIG.SYS file. The values for files and buffers can be greater than those given below.

```
DEVICE=C:\DOS\HIMEM.SYS
DEVICE=C:\DOS\SETVER.EXE
DOS=HIGH
FILES=30
BUFFERS=16
SHELL=C:\DOS\COMMAND.COM C:\DOS /E:512
/P
STACKS=9,256
```

2. If your file does not match the example, then run the DOS editor by typing: **edit c:\CONFIG.SYS** and press **Enter**.

    NOTE: For IBM DOS systems, the edit command is E.

3. Modify those statements that do not match the example. You do not need to edit your file to correct values for files and buffers that are greater than those shown in the example.

4. From the C:\> prompt, type **type c:\AUTOEXEC.BAT** and press **Enter**.

    The AUTOEXEC.BAT file displays.

    ```
    C:\DOS\SMARTDRV.EXE
    SET PATH=C:\INT;C:\INT\TASKS;C:\;C:\
    WINDOWS;C:\DOS;
    PROMPT=$P$G
    SET TEMP=C:\WINDOWS\TEMP
    CALL INSIGHT
    ```

NOTE: IBM DOS automatically inserts the following anti-virus statements into your AUTOEXEC.BAT file:

```
SET IBMAV=C:\DOS
CALL C:\DOS\IMBAVDR.BAT C:\DOS
```

You must remove these anti-virus statements from your AUTOEXEC.BAT file to allow your Insight software to run properly.

5. If your file does not match the example, then run the DOS editor by typing:

   edit c:\AUTOEXEC.BAT and press **Enter.**

6. Modify those statements that do not match the example.

7. If you changed any of the statements in your CONFIG.SYS or AUTOEXEC.BAT files, you must reboot your system for those changes to take effect.

8. Verification of the CONFIG.SYS and AUTOEXEC.BAT files is complete.

9. If any path is changed in the set path statement, verify that the path really exists from DOS, and then reboot your system.

Proceed to the next section and perform the required or optional upgrade instructions.

For Systems Using the DOS 6.x EMM386 Memory Manager

For systems requiring the use of a memory manager, the following is an example of a configuration using the DOS 6.x EMM386 Memory Manager. We recommend that you do not use the optimization program to configure your system.

1. From the C:\> prompt, type **type c:\CONFIG.SYS** and press **Enter.**

   Verify that the CONFIG.SYS file displays.

   ```
   DEVICE=C:\DOS\HIMEM.SYS

   DEVICE=C:\DOS\EMM386.EXE NOEMS

   DOS=HIGH,UMB

   DEVICEHIGH=C:\DOS\SETVER.EXE

   FILES=30

   BUFFERS=16

   STACKS=9,256

   SHELL=C:\DOS\COMMAND.COM C:\DOS /E:512
   /P
   ```

2. From the C:\> prompt, type **type c:\AUTOEXEC.BAT** and press **Enter.**

   Verify that the AUTOEXEC.BAT file displays.

   ```
   LOADHIGH C:\SMARTDRV.EXE

   SET PATH=C:\INT;C:\INT\TASKS;C:\;C:\
   WINDOWS;C:\DOS;

   PROMPT=$P$G

   SET TEMP=C:\WINDOWS\TEMP

   CALL INSIGHT
   ```

3. Verification of the CONFIG.SYS and AUTOEXEC.BAT files is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

9: Configuring Printer and Video Drivers

		Upgrading from Insight PC Revision:							Hardware &
	2.0 or	2.2	2.2			2.5, 2.6,	New		Software
1.x	2.1	DOS 5	DOS 6	2.3	2.4	or 2.7	System		Upgrade
Required									
Optional	Table 1 Lists Optional Drivers for Specific Insight Revisions						•		•

This section discusses configuration and setup instructions for various Windows 3.1 printer and video drivers that are included with the Insight software. The following printer and video drivers are discussed:

- Okidata Microline 590
- Epson printer driver
- Digital Celebris (DEC-S3) video driver
- Compaq Deskpro video driver

Configuring the Okidata Microline 590 Printer

If you are using an Okidata Microline 590 printer, change the printer parameter defaults as follows:

1. Press SHIFT+SEL on the printer's front panel to put the printer into Menu mode. The Menu Indicator lights.

2. Press the Group button until Set-Up appears in the left printer column.

3. Press the Item button until Ribbon Selection appears in the center printer column.

4. Press the Set button until Black appears in the right printer column.

5. Press the Group button until Parallel I/F appears in the left printer column.

6. Press the Item button until Auto Feed XT appears in the center printer column.

7. Press the Set button until Valid appears in the right printer column.

8. Press the Print button to display the printer settings, and then verify that the default parameters for Ribbon Selection and Auto Feed XT are as follows:

Group	Item	Setting
Set-Up	Ribbon Selection	Black
Parallel I/F	Auto Feed XT	Valid

9. Press SHIFT+SEL to save the changes to the printer defaults.

10. Reboot the printer (turn the power OFF, then ON).

Load the Windows driver for the Okidata printer as follows:

To complete this procedure, you must have the OKIDATA OKIsmart Control Disk that came with the printer.

1. Insert the OKIDATA OKIsmart Control disk into the A: drive and at the DOS prompt. Type a:\okinstal and press Enter.

2. After the title screen displays, the Main Menu screen will display. Select the Software Support at this screen option.

3. Press Enter at the Printer Drivers screen.

4. Select Windows 3.1 & 3.0 (ML590 Driver for Windows 3.1 & 3.0) at the Printer Driver Selection screen.

5. Enter the path location of Windows in the ML590 Scalable Windows Drivers screen and then press Enter.

6. Press Enter three times. At the Printer Driver Selection screen, select 7 to return to the Main Menu and then select 4 to exit the installation program.

7. Eject the OKIDATA OKI smart disk and then reboot the PC.

The Okidata Microline 590 printer configuration is complete.

Configuring the Dot Matrix Epson FX850 Printer Driver

If you are using an older dot matrix Epson printer driver, your printer may have experienced problems with improper page perforations when printing Insight reports. Follow these steps to configure the printer driver in Windows:

1. Create the **EPSONTMP** directory on the hard drive.

2. Insert the Insight for PC 2.8 Installation disk into drive A.

3. Change the current directory **to EPSONTMP** and copy the file EPSON9.EXE from the Installation disk into the EPSONTMP directory.

4. Type **EPSON9** and then press **Enter**.

   The following prompt displays: Do you want to extract these files now (y/n)?

5. Type **Y**.

6. Copy the file EPSON9.DRV from the EPSONTMP directory into the \WINDOWS\SYSTEM directory.

7. Compare the files DMCOLOR.DLL, UNIDRV.DLL and UNIDRV.HLP in both the EPSONTMP directory and the \WINDOWS\SYSTEM directory. If any of the files in the EPSONTMP directory are newer than the ones in the \WINDOWS\SYSTEM directory, then copy those files into the \WINDOWS\SYSTEM directory.

8. Start up Windows. From the Main program group, double-click the **Printers** icon.

9. From the Installed Printers dialog box, highlight the **Epson FX850** printer and then click **Setup**.

10. Click **Options** and then select **Margins**.

11. From the Margins dialog box, change the Top parameter to **0** and the Bottom parameter to **100**.

12. Save the changes and then exit from the Printers dialog box.

The installation of the Epson printer driver is complete. At this time, you can start up Insight and print a few reports to the report printer to make sure the pages are perforated correctly.

Configuring the Digital Celebris Video Driver

NOTE: This procedure should be performed only on sites running Windows 3.1 on Digital Celebris PCs.

If you are using a Digital Celebris PC, you may have experienced problems with trend data collection, trend scheduling, and network integrity problems. The updated Digital Celebris Video Driver can help to correct these problems. Follow these steps to configure the video driver in Windows:

1. Shut down the PC to DOS.

2. Change the current directory to **\WINDOWS\SYSTEM.**

3. Verify the date of the video driver by typing **DIR S3VSND.DRV** and press **Enter**.

4. If the date of the file is 10/12/1994 or earlier, then proceed to the next step. Otherwise, configuration of the Digital Celebris Video Driver is complete.

5. In the \WINDOWS\SYSTEM subdirectory, rename the existing files as follows:

Rename:	To:
S3VSND.DRV	S3VSND.SAV
S3VSND4.DRV	S3VSND4.SAV
VDDS3VSN.386	VDDS3VSN

6. Insert "Insight for PC 2.8 Installation Instruction Disk 1" into drive A.

7. Copy the file DEC-S3.EXE from the floppy disk into the \WINDOWS\SYSTEM directory.

8. Type **DEC-S3** and then press **Enter**. This will extract the updated video driver files.

9. Restart Windows for the changes to take effect.

Configuring the Compaq Deskpro Video Driver

NOTE: The following is a resolution to an issue with Compaq Deskpro PCs causing a FATAL ERROR when starting Insight.

If you are using a Compaq Deskpro, then perform the following steps:

Before you begin, write down the name of the current driver you have loaded. If this procedure does not resolve this issue, re-install the original driver.

1. Create a directory named **CIRRUS** on the root of drive C.

2. Copy the file **CIRRUS.EXE** from Disk #1 of the Insight disks into the CIRRUS directory.

3. Type **CIRRUS** and press **Enter**. This will extract the files.

4. Start up Windows.

5. Right-click anywhere on the Windows desktop and then click **Properties** to open the Display Properties window.

6. Click the **Settings** tab making note of the current display adapter, and then click **Change Display Type**.

7. Next to Adapter Type, click **Change**.

8. In the Select Devices window, click **Have Disk**.

9. In the Copy manufacturer's files from field, type **c:\cirrus.** and click **OK**.

10. In the Select Devices Screen, select **Cirrus Logic 5436/5446 PCI Direct Draw/VMP (v1.12)** and click **OK**.

11. To verify that the driver is operating correctly, change the color to a higher resolution in the Display Properties window and then test for any errors.

To verify that this driver is not causing a device conflict:

1. On the Windows desktop, right-click the **My Computer** icon.

2. Click **Properties** and then click the **Device Manager** tab.

3. Verify that the Display Adapter icon does not have a yellow exclamation mark through it.

   If it does, this indicates a device conflict. To correct the device conflict, reinstall the previous video driver.

The configuration of the printer and video drivers is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

10: Running the Alarm Segregation Utility

	Upgrading from Insight PC Revision:								Hardware & Software Upgrade
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	
Required		•							
Optional									

The Alarm Segregation Utility must be run on all sites that are upgrading from Insight Rev. 2.1. The Alarm Segregation Utility determines which points, if any, were defined to print alarms at the PC under Rev. 2.1. In Rev. 2.1, this information was specified in the *Print Alarms* area of the System Setup screen.

For Systems Running Windows 3.1

To run the Alarm Segregation Utility:

1. Shut down to DOS.

2. At the C:\> prompt, type the following:

   cd \int\data and press **Enter**.

   almseg and press **Enter**.

3. The Alarm Segregation Utility runs and displays a message indicating whether alarm segregation was used on this system prior to the upgrade. Read and follow the additional instructions that are displayed.

The Running the Alarm Segregation Utility is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

For Systems Running Windows 95/98

To run the Alarm Segregation Utility on systems running Windows 95/98:

1. Shut down Insight.

2. Click the **Start** button, point to **Programs**, and then click **MS-DOS Prompt** to open the MS-DOS window.

3. At the C:\> prompt, type the following:

   cd \int\data and press **Enter**.

   almseg and press **Enter**.

4. The Alarm Segregation Utility runs and displays a message indicating whether alarm segregation was used on this system prior to the upgrade. Read and follow the additional instructions that are displayed.

Running the Alarm Segregation Utility is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

11: Running the Graphic File Conversion Utility

	Upgrading from Insight PC Revision:								Hardware &
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Software Upgrade
Required	•	•							
Optional									

The Insight for Personal Computers Software Graphic File Conversion Utility is used to convert static (.PIC) files created with the In *A*Vision™ graphics package to be compatible with the Designer™ graphics package. This utility is designed to correct the following errors in Dynamic Graphics:

- Point information blocks that show garbled text upon updating in Graphic Display.

- Static or dynamic information that exceeds screen boundaries.

- Text which no longer fits in the area in which it was originally drawn.

- Text that appears in a different font than before.

- Error message CANNOT FIND ASSOCIATED SYMBOL FOR <point name>.

CAUTION:
Make sure that you run the conversion utility only once. When the conversion utility is run, the file CONVERTG.FIL is inserted in the graphics subdirectory of the network in which the graphic is contained. If you try to convert a graphic file twice, you will be notified that the graphic has already been converted. If you run the utility more than once per graphic, then the background graphic will continue to shrink each time the utility is run. If this happens, then the graphic will eventually become unusable. This process is irreversible.

For Systems Running Windows 3.1

To run the Graphic File Conversion Utility on systems running Windows 3.1:

1. Back up the graphics directory of each network from the C:\> prompt using the DOS Backup command. Refer to the *Backing Up Your Existing Database* section in this document. If more than one floppy disk is needed for the backup, then you will be prompted to insert blank disks as needed.

2. At the C:\> prompt, change to the \int\data subdirectory. Type **cd int\data** and press **Enter**.

3. Begin the conversion. Type **convertg c:** and press **Enter**.

   Windows starts up and creates a font table.

4. A dialog box displays when the font table is created. Acknowledge the box by clicking **OK**.

   Windows shuts down and the Graphic File Conversion Menu is displayed as shown below:

   ```
   (Press F1 or ? for Help)

   Convert all graphics in all
   networks.

   Convert all graphics in one
   network.

   Convert one graphic in one network.

   Exit to DOS

          Enter choice (1-4):
   ```

5. Type the number corresponding to the type of conversion you wish to perform.

   - If you select choice 2, then you must enter the network name.

   - If you select choice 3, then you must enter the network name and the name of the dynamic graphic to be converted.

   - If you need help, press ? or the F1 key.

   NOTE: One or more error messages may display during the conversion. Table 2 lists these messages, an explanation of what the error messages mean, and what corrective action should be taken in order to complete the conversion.

6. When the conversion is completed, the following message displays: Conversion Completed.

7. After converting all desired graphics, run Insight, select **Graphics** from the Main Menu and select **Graphic Display.**

8. View each graphic that was converted. If any of the graphics have the following symptoms, then make the necessary modifications:

- If dynamic symbols overlap background graphics or each other, then re-position the dynamic symbols using the Dynamic Graphic Editor or redraw the background graphic using the Background Editor in Designer.

- If the text's font or size seems incorrect, then modify the text using the Background Editor in Designer.

To open a background graphic in Designer that was created by In*A*Vision software, follow these steps:

1. If you do not know the file name of the background graphic that you need to modify, then open the Graphic Display application and display the dynamic graphic that contains the background graphic that you wish to modify. Click on the window's **About** box to view the background (static) graphic's file name.

2. Open the Background Editor in Designer.

3. Select **File** from the menu bar and click **Open.**

   *.DRW is displayed in the edit field.

4. Type the file name in the edit field. Be sure the file name ends with the .PIC extension. When you are finished, click **OK.**

   The static file that you selected is displayed.

   If you want to view all .PIC file names, follow Steps 1-3. Then replace *.DRW with *.PIC in the edit field and press **Enter.**

   All graphic files created with the In*A*Vision software are displayed in the scroll box.

5. Double-click on the graphic file name.

The static file that you selected is displayed.

Running the Graphic File Conversion Utility is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Helpful hints while working in Designer:

- Press F2 while in Designer to select the entire drawing. This feature enables you to stretch the entire graphic or globally change fonts.
- Press F3 while in Designer to redraw the screen.

For Systems Running Windows 95/98

To run the Graphic File Conversion Utility on systems running Windows 95/98:

1. Shut down Insight.

2. Double-click the **MS DOS** icon to open the MS DOS window.

3. At the C:\Windows prompt, type the following:

   cd.. and press **Enter.**

   cd \int\data and press **Enter.**

   convertg c: and press **Enter.**

4. Click **OK** in the Font Table dialog box to return to the MS DOS window. Press any key to continue.

   The Graphic File Conversion Menu displays.

5. Type the number corresponding to the type of conversion you wish to perform.

- If you select choice 2, then you are required to enter the network name.

- If you select choice 3, then you are required to enter the network name and the name of the dynamic graphic to be converted.

- If you need help, press **?** or the **F1** key.

   NOTE: One or more error messages may display during the conversion. Table 2 lists possible error messages with explanations and corrective actions that should be taken in order to complete the conversion.

   When the conversion is completed, the following message displays: Conversion Completed.

6. After converting all desired graphics, run Insight, select **Graphics** from the Main Menu and select **Graphic Display.**

7. View each graphic that was converted. If any of the graphics have the following symptoms, then make the necessary modifications:

- If dynamic symbols overlap background graphics or each other, then re-position the dynamic symbols using the Dynamic Graphic Editor or redraw the background graphic using the Background Editor in Designer.

- If the text's font or size seems incorrect, then modify the text using the Background Editor in Designer.

Running the Graphic File Conversion Utility is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

Table 2. Graphics Conversion Error Messages, Explanations, and Corrective Action Required.

Error Message	Explanation	Corrective Action
`Error changing to drive` *`drive letter`*	Drive specified is not accessible.	Check the drive letter.
`networks\`*`network name`*`\graphics directory not found on drive` *`drive letter`*`:`	Either the network graphics subdirectory is non-existent or not on the drive selected.	Check for the proper graphic path and network name spelling. Check the drive letter.
`networks\`*`network name`*`\graphics directory not found on current drive`	Either the network graphics subdirectory is non-existent or not on the drive selected.	Check for proper graphic path and network name spelling. Check the drive letter.
`Error changing to directory \networks\`*`network name`*`\graphics`	Graphics subdirectory cannot be found.	Check for the proper graphic path and network name spelling. Check the drive letter.
`Can't access drive` *`drive letter`*`:`	Drive specified is not accessible.	Check the drive letter.
`Couldn't find file(s)` *`filename`*	When opening dynamic files, the static file's name is extracted and attempts to open. If the static file name extracted is not found, then this message is displayed.	No action required. The static graphic no longer exists. Ignore this message.
`network` *`network name`* `not found.`	The network requested was not found.	Check for the proper graphic path and network name spelling.
`Graphic` *`graphic name`* `not found.`	When opening dynamic files, the static file's name is extracted and attempts to open. If the static file name extracted is not found, then this message is displayed.	No action required. The static graphic no longer exists. Ignore this message.
`Couldn't access \networks\`*`network name`*`\graphics`	Either the network graphics subdirectory is non-existent or not on the drive selected.	Check for the proper graphic path and network name spelling.

12: Performing Controller Application Uploads or LAN Updates

		Upgrading from Insight PC Revision:							Hardware &
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Software Upgrade
Required	•	•	•	•					•
Optional									

Controller Application Uploads

The information in this section applies to Insight 2.2 and earlier upgrades. This section is mandatory for systems that include controller applications (for example, TEC, UC, or Fume Hood applications). Controller Application Uploads are not required for field panels which do not contain these controller applications.

If a controller application has not been uploaded, then the message No Range appears as the value when you attempt to command that controller application.

To allow Insight to command and report on controller applications, you must perform a point upload of the field panels that contain unique controller applications. Point upload copies all point information to disk, reads controller application data from the controller, and creates a file which contains that information.

If a controller application is duplicated in multiple field panels, then you need to upload only one representative of that controller application once the controller application information is uploaded to the PC (Insight 2.3 or later). This is not required for subpoint unbundling.

To perform a point upload from a field panel, double-click **Database Utilities** in the Insight Main Menu. Select **Database Transfer** and then select **Receive All Databases**. Select the appropriate field panel(s) and click **OK**.

You may need to perform this operation twice to upload the application data from the controllers connected to the field panel.

Deleting Unused TCU Applications

TCU applications 0 -15 are always at the top of the Controller Equipment and Controller Data Report list boxes, making it necessary to scroll down to your other site files.

If you do not have some of these TCU types on your system, then you can remove the matching applications from the List Box using the following procedure:

For Systems Running Windows 95/98

1. Shut down Insight.

2. Click the **Start** button, point to **Programs,** and then click **MS-DOS Prompt** to open the MS-DOS window.

3. At the C:\Windows> prompt, type **cd \int\data** and press **Enter.**

4. The C:\INT\DATA> prompt is displayed. Type **lanupdat** and press **Enter.**

   The LAN Update screen is displayed (refer to the following page).

5. Press **D** to delete an entry. The following prompt displays: Enter entry number:

6. Type the number (0-15) which corresponds to the application you wish to delete and press **Enter.** The list of available TCU applications is displayed again, minus the number you deleted.

7. Repeat Steps 5 and 6 until you have deleted all the TCU applications you wish to remove, and then press **E** to exit this utility. If you accidentally delete the wrong TCU application, you can use the Initialize File option to replace all of the deleted applications. You can then delete the unwanted applications again.

The Controller Application Upgrades or LAN Updates are complete.

Proceed to the next section and perform any required or optional upgrade instructions.

For Systems Running Windows 3.1

1. From the C:\> prompt, type **cd\int\data** and press **Enter**.

2. The C:\INT\DATA> prompt is displayed. Type **lanupdat** and press **Enter**.

The following screen is displayed:

```
This utility is designed to remove the unused
TCU application numbers (0-15) from an
available list used by Insight.

Current List of Available TCU Applications:

   0 - SLAVE
   1 - VAV HW RHT
   2 - VAV ELCT HT
   3 - VAV DUAL DCT
   4 - VAV DUCT DCT
   5 - VAV HT&COOL
   6 - VAV HW RHT
   7 - VAV FAN RHT
   8 - SLAVE
   9 - CNST VOL H/C
  10 - CNST VOL H&C
  11 - RADIANT PANL
  12 - FAN ELCT RHT
  13 - UNIT VENT HT
  14 - HEAT PUMP
  15 - SML ROOF TOP

Enter Command ('Delete an entry, 'Initialize
file, 'Exit):
```

3. Press D to delete an entry. The following prompt displays: `Enter entry number:`

4. Type the number (0-15) which corresponds to the application you wish to delete and press **Enter**. The list of available TCU applications is displayed again, minus the number you deleted.

5. Repeat Steps 3 and 4 until you have deleted all the TCU applications you wish to remove, and then press E to exit this utility. If you accidentally delete the wrong TCU application, you can use the Initialize File option to replace all of the deleted applications. You can then delete the unwanted applications again.

The Controller Application Upgrades or LAN Updates are complete.

Proceed to the next section and perform any required or optional upgrade instructions.

13: Enabling the Hard Disk Test

		Upgrading from Insight PC Revision:							Hardware & Software Upgrade
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	
Required									
Optional	•	•	•	•	•	•	•	•	•

Follow these instructions to enable the hard disk test. The hard disk test is required for jobs with Smoke Control UL Listing.

NOTE: Install this option only if the system is required for Smoke Control UL Listing. Since a small increase in disk access is required to run this option, the system's performance may be slightly slower.

For Systems Running Windows 95/98

1. Shut down Insight.

2. Click the **Start** button, select **Programs**, and then click **MS-DOS Prompt** to open the MS-DOS window.

3. At the C:\Windows> prompt, type the following:

   cd \int\data and press **Enter**.

   instsmok on and press **Enter**.

4. The option is now enabled. If you need to disable the option, then repeat Step 1 and type **instsmok off** and press **Enter**.

   The hard disk has been enabled.

Proceed to the next section and perform any required or optional upgrade instructions.

For Systems Running Windows 3.1

1. At the C:\> prompt, type **cd \int\data** and press **Enter**.

2. Type **instsmok on** and press **Enter**.

3. The option is now enabled. If you need to disable the option, then repeat Step 1 and type **instsmok off** and press **Enter**.

The hard disk has been enabled.

Proceed to the next section and perform any required or optional upgrade instructions.

14: Supporting SVGA Resolution Modes

	1.x	Upgrading from Insight PC Revision: 2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Hardware & Software Upgrade
Required									
Optional			•	•	•				

Enabling SVGA mode (generally any configuration higher than 640x480) increases your system's resolution and color display. If your system has the appropriate hardware installed, you can convert your system to the higher resolution (SVGA). Once this is done, all Windows applications will be sized accordingly to the new video mode. Insight provides an option that will allow your existing VGA graphics to be viewed as if the PC were setup for SVGA mode.

Changing to SVGA Resolution via Windows 95/98

NOTE: Before any changes are made to your system, make sure that you have performed a site backup. Refer to the *Backing Up An Existing Insight Database* section.

1. Right-click anywhere on the desktop and then select **Properties** from the menu bar that displays.

2. In the Display Properties dialog box, select **Settings**.

3. In the **Desktop area** field, click the cursor in the pixels bar until you reach a desired setting (generally any setting higher than 640 x 480) and then click **Apply**.

4. The System Settings Change message box displays prompting you to restart the computer. Click **Yes** for the changes to take effect.

   Windows restarts in SVGA resolution mode.

Undoing System Resolution Changes

If you are not satisfied with the changes made to your system's resolution you can restore your system to its traditional resolution mode.

1. Repeat Steps 1-4 above under the *Changing to SVGA Resolution via Windows 95/98* section.

2. In the **Desktop area** field, change the pixel setting back to VGA (640x480) mode.

3. The System Settings Change message box displays prompting you to restart the computer. Click **Yes** for the changes to take effect.
   The computer is restarted in VGA mode.

NOTE: Depending on your system's video memory, as the screen size increases (i.e., 640x480 to 1024x768) the color support decreases (i.e., from 16 million colors to 256 colors) proportionate to the screen size. The system has been adjusted to support SVGA.

Proceed to the next section and perform the required or optional upgrade instructions.

Changing to SVGA Resolution via Microsoft Windows 3.1

NOTE: Before any changes are made to your system, make sure that you have performed a site backup. Refer to the *Backing Up An Existing Insight Database* section.

1. Make sure that Insight is shut down and that all other Windows applications are closed.

2. In the Program Manager, double-click the **Windows Setup** icon (usually found in the Main group).

3. In the Windows Setup dialog box, select **Options** from the menu bar and then click **Change System Settings**.

4. In the Change System Settings dialog box, click the **Down Arrow** located at the end of the Display field.

5. In the drop box, use the scroll arrows to locate the SVGA display driver. Click the appropriate driver and press **Enter**.

   NOTE: Depending on the monitor, video card, and controller board capabilities, certain systems will not be capable of running in SVGA mode. The name and type of the SVGA display driver will vary based on the type of board installed in your computer. If your system does not respond correctly after you select an SVGA display driver, contact the display-adapter manufacturer to find out the type of SVGA driver that is compatible with your system.

6. In the prompt box that appears, select **Restart Windows**.

Windows restarts in SVGA resolution mode.

Undoing System Resolution Changes

If you are not satisfied with the changes made to your system's resolution you can restore your system to its traditional resolution mode.

1. At the C:\Windows prompt, type **setup** and press **Enter** to run the Windows Setup application.

2. Follow the instruction on the screen to restore your system to its original VGA resolution mode.

The computer is restarted in VGA mode. The system has been adjusted to support SVGA.

Proceed to the next section and perform the required or optional upgrade instructions.

15: Repartitioning the Hard Drive

		Upgrading from Insight PC Revision:							Hardware & Software Upgrade
	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	
Required									
Optional	•	•	•	•	•				

Expected Time to Repartition: 2 hours

⚠ **CAUTION:**
Carefully read this entire procedure before you attempt to repartition your hard drive. **The repartition process erases the entire contents of your hard drive.** You will need to re-install DOS 6 and Windows 3.1 after the repartitioning process is complete.

Steps to be taken BEFORE repartitioning:

1. Copy the following files onto your DOS system disk (this is the disk you created at the end of the *Installing DOS Upgrades* section).

   FDISK.EXE (for MS-DOS)

   Or,

   FDISK.COM (for IBM DOS)

   FORMAT.COM

   These files are in the \DOS directory on drive C.

2. Make sure you have the complete set of DOS 6 and Windows 3.1 disks for this system. You will need them during the repartitioning procedure.

3. Starting with drive C, backup each drive (C, D, E, etc.) on the hard drive using the proper DOS backup utility for your DOS type (IBM DOS or MS-DOS). You must proceed alphabetically, backing up only one drive at a time, and must **start** with drive C. Refer to your DOS manual for details on your particular backup utility or refer to the *Backing Up Your Existing Database* section.

Repartitioning Instructions:

1. Insert the DOS system disk in drive A and reboot the machine (this is the disk you created at the end of the DOS installation).

⚠ **CAUTION:**
The next step of this procedure erases all of the data on your hard drive. Any of your files that have not been backed up at this point will be lost during repartitioning.

2. At the DOS prompt, type **fdisk** and press **Enter.**

3. Follow the repartitioning instructions in the *DOS User's Guide* that came with the PC. The instructions can be found under the *Configuring Your Hard Disk* section. The repartitioning sequence follows:

   a. Delete the logical DOS drive in the Extended DOS partition for all drives

   b. Delete the extended DOS partition

   c. Delete the primary DOS partition

   d. Create the new primary DOS partition

   e. Set the active DOS partition

4. After the hard disk is repartitioned, reformat the hard disk using the following command:

   format c: /s and press **Enter.**

5. In the above example, drive C is the hard disk being reformatted.

Installing DOS

1. Install DOS 6 from the disks provided with the Insight upgrade. You need two high-density, blank, formatted floppy disks for this procedure. These disks must be the correct media type (3.5" or 5¼") for drive A on the PC.

   NOTE: The DOS installation program will only write to floppy drive A. This installation cannot be completed unless your blank, formatted disks are the correct size and format for drive A of your PC.

2. Label one of the disks "Uninstall 1". You will be prompted to insert this disk during the upgrade. IBM DOS allows you to decide whether or not to produce an Uninstall disk. MS DOS requires an Uninstall disk. The upgrade program stores information about the old version of DOS on these disks.

   NOTE: You will not be able to install the Windows 3.1 versions of the DOS utilities because Windows is not yet loaded on your system. The Windows versions of these utilities will be restored with your original C:\DOS directory when you restore the drive C: backup.

3. Insert the DOS upgrade disk labeled "Disk 1 Setup" in drive A:

4. At the C:\> prompt, type **a:setup** and press **Enter**.

5. The upgrade process begins. During the upgrade, the system prompts you for each DOS installation disk. Continue with this procedure to verify and/or modify settings, programs, and directories presented by the setup program.

6. For help press the F1 key.

7. The upgrade procedure varies depending on which type of DOS (MS-DOS or IBM DOS) you are installing. Refer to the appropriate upgrade information for your system type, as follows:

8. Do one of the following:

   ● If you are installing MS-DOS 6 verify that the utilities installed for MS-DOS match the following example.

      The utilities installed for MS-DOS should be:

Backup	MS-DOS Only
Undelete	MS-DOS Only
AntiVirus:	MS DOS Only

      Press **Enter** to install the listed utilities and continue with the setup procedure.

   ● If you are installing **IBM DOS 6**, verify that the utilities installed for IBM DOS match the following example (set any other displayed utilities to **NO**):

IBM AntiVirus DOS	875 KB:NO
IBM DOS Shell	335 KB:NO

Central Point Backup for DOS	1095 KB:YES

Press **Enter** to install the listed utilities and then continue with the setup procedure.

⚠️ CAUTION:
Do not use disk compression or memory optimization applications supplied with MS-DOS 6 and IBM DOS 6. Using these files may compromise system integrity.

9. Remove all disks and reboot the system when DOS installation is complete.

Restoring Your Backups

Restore your backups one at a time in reverse alphabetical order (F,E,D, etc.), using the proper DOS backup utility for your DOS type (IBM DOS or MS-DOS). You must restore only one drive at a time, and must restore drive C **last**.

To restore an MS-DOS backup:

1. Type the following **msbackup** and press **Enter**

2. Follow the screen prompts to configure your computer and then save the configuration before continuing with system backup. Configuration requires two (2) blank, formatted floppy disks.

3. Press **Tab** to select Restore, and then press **Enter**.

   The Restore screen displays.

4. Verify that floppy drive A: is displayed in the box under Restore From.

5. Press **Tab** to select **Catalog**, and then press **Enter**. The Select Catalog screen appears.

6. Press **Tab** to select **Retrieve**, and then press **Enter**. Use the **Space Bar** to select your floppy drive A:, and then press **Enter**.

7. Insert the last disk of the backup set for the drive you are restoring (to retrieve the catalog for that drive), and then press **Enter**.

8. The message, Back up catalog has been retrieved displays. Press **Enter**. Verify that the catalog you retrieved is selected in the Files list box, and then press **Enter**. The catalog is loaded.

9. Select the drive that you wish to restore from the Restore Files list box, and then press the **Space Bar** to select all files for that drive. Make sure that

"All Files" appears next to the drive letter in the list box, and that no other drive in the list box is selected for restore ("All Files" or "Some Files" appear next to each selected drive letter).

10. Press the **Tab** key to select **Restore To,** and then press **Enter.** Press the **Space Bar** until **Other Drives** is selected. If you are restoring a backup of the C drive, press the **Space Bar** until **Original Locations** is selected. Press **Enter.**

11. The number of files selected for restore is displayed next to **Select Files.**

12. Press the **Tab** key to select **Start Restore,** and then press **Enter.** The system prompts you for one of the backup disks. Insert the proper disk and then press **Enter** again.

13. If you specified "Other Drives" under **Restore To,** then the system prompts you to specify an alternate drive for the restore. Type C:\ and then press **Enter.**

14. The restore process begins. Follow the system prompts to restore the selected drive to drive C.

15. When the **Restore Complete** screen appears, verify that all files were restored correctly, and then press **Enter.**

16. The contents of this drive are now restored. Remove the last disk from the floppy drive and keep all disks for this backup together.

17. Repeat steps 3 to 14 for each of the drive partitions (F:,E:,D:, etc.) you are restoring.

To restore an IBM DOS backup:

1. Type **cpbackup** and press **Enter.**

2. Follow the screen prompts to configure the computer and then save the configuration before continuing with system backup. Configuration requires one (1) blank, formatted floppy disk.

3. Press the **Tab** key to select **Restore,** and then press **Enter.** The Restore screen displays.

4. Press **V** to select **Retrieve Hist.** At the system prompt, insert the last disk of the backup for the drive you wish to restore, and then press **Enter.**

5. Verify that **Inserted Floppy** is selected in the box under **History,** and that the floppy drive (A or B) is selected under the **Restore From** screen.

6. Press **Tab** to select Start Restore, and then press **Enter.** The restore process begins. Follow the system prompts to restore the selected drive to drive C.

7. When the Restore Complete! screen displays, press **Enter.**

8. The contents of this drive are now restored. Remove the last disk from the floppy drive and keep all disks for this backup together.

9. Repeat this procedure from Step 3 for each of the drives (F,E,D, etc.) on your system.

Installing Windows

Install Microsoft Windows 3.1 from the disks provided with the Insight upgrade. Refer to the *Installing Microsoft Windows 3.1* section earlier in this document for installation information.

Verifying the System Files

After you restore all the files and subdirectories to drive C, you may have to change the AUTOEXEC.BAT file or other batch files so that they reflect the new drive status.

For example, if this statement appears in the AUTOEXEC.BAT file:

```
PATH C:\;C:\DOS;D\BRIEF;E:\BCS
```

You must change it to:

```
PATH C:\;C:\DOS;C\BRIEF;C:\BCS
```

Make sure that the CONFIG.SYS and AUTOEXEC.BAT files contain the statements shown in the examples given in the *Verifying the CONFIG.SYS and AUTOEXEC.BAT Files* section earlier in this document.

If you change any of the statements in the CONFIG.SYS or AUTOEXEC.BAT files, you must reboot the system for those changes to take effect.

The Hard drive repartitioning is complete.

Proceed to the next section and perform the required or optional upgrade instructions.

16: Adding Microsoft Excel to Insight

	1.x	Upgrading from Insight PC Revision: 2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Hardware & Software Upgrade
Required									
Optional	•	•	•	•	•	•	•	•	•

Excel appears in the Insight Trend Data Conversion screen if this application is installed on the PC and its directory is specified in the set path statement of the AUTOEXEC.BAT file. You will continue to receive alarms and system events while working in Excel if you access the program.

If you install Excel on your PC after installing Insight 2.8, the application directory is automatically added to the set path statement by the Excel application's Install program. Be sure to verify the AUTOEXEC.BAT and CONFIG.SYS files after the installation of Excel.

The set path statement should appear on one line and match the following example:

```
SET PATH=C:\INT;C:\INT\TASKS;C:\;C:\DOS;C:
   \WINDOWS;C:\MSOFFICE\EXCEL
```

If Excel was installed the PC prior to the installation of Insight 2.8, you may need to perform the following procedure to add the application's directory to your set path statement:

1. From the C:\> prompt, type **c:\AUTOEXEC.BAT** and press **Enter**.

   The AUTOEXEC.BAT file displays.

2. The set path statement should appear on one line and match the following example:

```
SET PATH=C:\INT;C:\WINDOWS;C:\WINDOWS\
   COMMAND;C:\DOS;C:\WINDOWS;C:\MSOFFICE\
   EXCEL
```

NOTE: The order of the elements in the set path statement may vary. Make sure that the INT and INT\TASKS elements are at the beginning of the path statement.

3. If the set path statement does not contain all of the elements in the example, then run the DOS editor by typing **edit c:\AUTOEXEC.BAT** and press **Enter**.

   Modify the set path statement as shown in the example.

4. Reboot the system for the changes to take effect.

Microsoft Excel has been added to Insight.

Proceed to the next section and perform the required or optional upgrade instructions.

17: Performing a Site Backup

	1.x	2.0 or 2.1	2.2 DOS 5	2.2 DOS 6	2.3	2.4	2.5, 2.6 or 2.7	New System	Hardware & Software Upgrade
			Upgrading from Insight PC Revision:						
Required	•	•	•	•	•	•	•	•	•
Optional									

Once you have completed all parts of this installation, you must perform an Insight site backup using blank, formatted floppy disks. Leave the backup disks on the job site in a safe place. Failure to perform a site backup may compromise the system integrity.

Perform a site backup of the upgraded Insight Database following the procedures outlined in the *Backing Up An Existing Insight Database* section.

Store both the pre and post-upgrade backups in a safe place on the job site. Both backups may be useful in restoring system settings and data should a problem arise.

The Insight 2.8 upgrade is complete.

CAUTION:
If the system being upgraded is running Insight across an Ethernet network, continue upgrading all other PCs on the network to Insight 2.8, and upgrade all PDP-11 terminals on the network to Insight for Minicomputers version K.0.

PCs running Insight 2.8 will not communicate properly with PCs running prior versions of Insight or PDP-11 terminals running older revisions of Insight for Minicomputers. All machines on the network should be upgraded at the same time to ensure proper communication across the network. Contact Field Support for more information about Insight revision K.0 and upgrading Insight on an Ethernet network.

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Page 41 of 41