Installation Guide

English

Print Console

version 3.15

731-00193A-EN Rev A

www.creo.com

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Internal 731-00193A-EN Rev A

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Installation Overview

Do you have the right version of Print Console for this device?

Print Console is part of a controlled release package consisting of output device, software, and firmware. The controlled release for any given output device contains only those components that have been tested and approved for that output device. While Print Console is designed to support all output devices, please check with your Creo service representative to ensure that this version of Print Console has been qualified for your output device.

Install Service Shell Host first

You must install the Service Shell Host software *before* you install Print Console software. If you do not, the Print Console installation program will not install Print Console. See *Installing Service Shell* on page 5.

Install Print Console

Install Print Console using either a clean install or an upgrade procedure.

If you are installing Print Console on a workstation that:	Do this:
Does not have an existing version of device control software	Follow the procedures for *Performing a Standard Installation (Clean Install)* on page 8.
Has an earlier version of Print Console 3.x installed (and you are not changing output devices)	Follow the procedures for *Upgrading Print Console* on page 13. You can upgrade from any Print Console 3.x version to any other 3.x version. Upgrades from Print Console 1.x or 2.x to 3.x are not supported.

Install the test files

After installing Print Console, install the relevant test files using the procedure in *Installing Test Files* on page 11. Having test files installed makes servicing the device more efficient. Some test files are included in the standard installation. Additional device-specific test files are provided on separate CD-ROMs.

Audience

This document is for anyone who installs Print Console software. This would typically be:

- Production staff, who build systems before they are shipped to customers
- Creo service representatives
- Customers who have taken Shared Maintenance Training

Customers who have a service contract would usually have Print Console installation and configuration done by a Creo service representative.

Customers who have taken Shared Maintenance Training will have access to the **Service** panel, but will need to contact their Creo representative for documentation that is available only on TechPlanet.

Scope

This document explains the various installation and configuration options for Print Console. To find information about how to use this software, see the documents listed in *Related Documentation*.

Related Documentation

Print Console has a context-sensitive online help system, which has reference material and procedural information for all the features and functions in Print Console software.

Other documentation that will help you install and configure Print Console includes:

Type of installation	Title and part number	Where available
All	*Print Console 3.15 Quick Start Guide* (653-00778A-EN)	Also available on eCentral
	Print Console 3.15 Release Notes (739--00052A-EN)	
	Print Console Specification	Available on Print Console TechPlanet site.
	TIFF Downloader Specification (72-3322)	http://techplanet.creo.com/output/device_control/cri/nav/downloader.htm
	Configuring Windows 2000 as a PPP Server for MCE TCP/IP Serial Connection with Print Console	http://techplanet.creo.com/output/device_control/print_console/content/docs/PPP_server_setup.pdf

Type of installation	Title and part number	Where available
Brisque Screen2Go	*Brisque to Trendsetter Connectivity via Screen2Go Installation Guide* (399Z1P903)	http://techplanet.creo.com/color_screening_calibration/screen2go/content/documentation/Screen2GoIG.pdf
	Brisque to Trendsetter Connectivity via Screen2Go User Guide (399Z1P904)	http://techplanet.creo.com/color_screening_calibration/screen2go/content/documentation/Screen2GoUG.pdf
	Brisque-to-Print Console Connectivity (via Screen2Go) Technical Bulletin	http://techplanet.creo.com/color_screening_calibration/screen2go/content/documentation/BrisquetoPrintConsole.pdf
Brisque Direct	*Brisque to Trendsetter... Direct Connectivity* documents (various)	http://techplanet.creo.com/software_solutions/workflow_software/brisque/nav/v4-x/reference.htm
Prinergy	*Factory Installation Document Map* • *Windows 2000 Installation* • *Dell Hardware Setup* • *EMC/DG Server Hardware Setup* • *Prinergy 2.0 Installation*	http://techplanet.creo.com/software_solutions/workflow_hardware/dell_platforms/content/docs/DocumentMap.htm
	Connecting Prinergy 2.x and Print Console technical bulletin (78-0125B)	TechPlanet Trendsetter/Platesetter Connectivity site
	Imaging Thermal Bluelines Using Prinergy and Print Console	http://techplanet.creo.com/output/device_control/print_console/content/docs/78-0083B-C-TM01.pdf
	User Rights on a Print Console Workstation	http://techplanet.creo.com/output/device_control/print_console/content/docs/PC_rights_setup.pdf
ThermoFlex	*TIFF Front End Server Installation Procedure* (73-3344)	http://techplanet.creo.com/output/device_control/tiff_frontend/content/docs/agile/73-3344B-A-PR01.pdf

Requirements

The following tables give an overview of system requirements. For more information, refer to the *Site Preparation and Requirements* document for the output device on which you are installing Print Console.

Print Console is installed on different workstations, depending on the output device and workflow.

For this workflow	Print Console is installed on
Prinergy	Prinergy Render Station (secondary server)
ThermoFlex	TIFF Front End server
Brisque	Print Console workstation
third-party RIP	Print Console workstation

For all workstations/servers, the following requirements apply:

Workstation/server	• Dell Optiplex workstations require Windows 2000 Professional edition and pcAnywhere. Other servers require Windows 2000 Server edition. • Windows 2000 must be configured as a Point to Point Protocol (PPP) server for Print Console. See *Configuring Windows 2000 as a PPP Server for MCE TCP/IP Serial Connection with Print Console* on the Procedures page of the Print Console TechPlanet site. • Servers must have NetBEUI and TCP/IP network protocols installed and configured • If UNIX network connectivity is required, Hummingbird NFS must also be installed and configured
Video cards	• High-resolution, 24-bit • Optimized for the Windows Graphics Device Interface (GDI) • Minimum 4 MB video RAM • Video display set to a minimum of 800 x 600 pixels and a minimum of 65536 colors; Creo recommends 1024 x 768 resolution and true color (24-bit) display • Older servers may not meet some of these requirements. Please contact your Creo service representative for advice. For these servers you may want to configure single frame animation rather than full animation. See *To configure animation settings* on page 27.
Hard drive space required for installation (space required for operation depends on the data)	Approximately 400 MB for installation: • Approximately 15.8 MB for Service Shell directory • Approximately 96 MB for Print Console directory (includes full set of animation images for one output device and online help files) • Approximately 21 MB for CreoSupt directory • Approximately 10.8 MB for PDF directory • Approximately 259 MB for TestFiles directory • Space requirement for Spool (data) directory depends on data

Installing Service Shell

Service Shell is a software tool for performing maintenance, service, test, and calibration operations. These operations can be performed locally or through remote access. Service Shell uses a client/host architecture:

Service Shell Host software	• Installed on the Print Console workstation • *Must be installed on the workstation before you can install Print Console*—if the Print Console installation program cannot find Service Shell Host on the workstation, it will exit • Must be installed before Service Shell Client software • When you install Service Shell Host, local use of Hyperterminal and Procomm are disabled because the Host software monopolizes the serial port that is connected to the device on the workstation/server. That port is unavailable for any other use unless Service Shell Host is closed.
Service Shell Client software	• Optional, but installation is strongly recommended if you need Splot or local access to the device diagnostic port • Installed on the same workstation as the host software or on a remote workstation • Must be installed after installation of the host software

The Service Shell program is included in the same controlled release as the Print Console program.



Note: If Service Shell is already installed on the workstation, check to see whether it is the same version that is included in the controlled release for this version of Print Console. If it is an earlier version, Creo recommends that you replace it with the version that accompanies your new version of Print Console.

To install Service Shell 2.4, see the *CTP Service Shell Installation Procedure* on TechPlanet: http://techplanet.creo.com/output/service_tools/service_shell/content/docs/SS-011-FW0-IN.pdf

To install Service Shell 2.5, see the *Service Shell 2.5 Installation and Update Guide* on TechPlanet: http://techplanet.creo.com/output/service_tools/service_shell/content/docs/SeSh_2-5/Service_Shell2-5_inst.pdf.

Installing Print Console

Types of Installations

Print Console software is on a Controlled Release CD-ROM. When you run the Print Console Installer, the installation program checks to determine what type of installation it will perform. The type of installation will determine:

- The location of directories
- Which files are installed
- Registry entries
- Screens and prompts

Clean Install

The first time that you run the Print Console installation program on a workstation, it automatically selects the **Clean Install** option. It installs Print Console control software for the device model that you select, as well as PDF documentation and a number of other folders and files. After the installation, Print Console is configured in the registry to run in production mode with the chosen output device. The procedure for a clean install is on page 8.

Upgrade

If you have previously installed Print Console, you will be offered several upgrade options:

Print Console	Installs Print Console control software for the selected device model.
Test Files	Installs a number of test files. (Additional device-specific test files are provided on separate CD-ROMs.)
Configure Software	Installs/configures Print Console options that you may have skipped during the initial installation.
Print Console Utility	Backs up and/or restores Print Console settings from a previous installation.
Select Device	Adds/removes animation images for additional output devices. It also configures Print Console to interface with a different device.
Migrate Settings	Migrates certain settings from existing Creo device control applications.

The procedure for an upgrade is on page 13.

Installation Procedures for Different Kinds of Workstations

As described on page 4, the type of workstation on which Print Console is installed depends on the output device and the workflow. Perform the appropriate installation procedures for each:

For this system	Use these installation procedures
Prinergy	Install Print Console on the Prinergy Render Station (secondary server): • Install and configure the Prinergy Render Station according to the Windows 2000 installation for Prinergy 2.x document (see *Related Documentation* on page 2). • Install Print Console according to the instructions in *Performing a Standard Installation (Clean Install)* on page 8, ensuring that: ❒ The TIFF Downloader option is enabled if you plan to produce proofs from Prinergy or TIFFs from a third-party RIP (see *Enabling, Licensing, and Configuring TIFF Downloader* on page 20) ❒ The Print Console drive is the system drive ❒ The Spool drive is the data drive • Follow the *Setting Up Output Devices* instructions in the *Prinergy Installation Guide* document (see *Related Documentation* on page 2).
Brisque Direct (Connecting to the Brisque with GDAPI)	Install Print Console on a Print Console workstation: • Install and configure Brisque 4.0 following the installation procedures in the Brisque documentation (see *Related Documentation* on page 2). • Install Print Console on the Print Console workstation according to the instructions in *Performing a Standard Installation (Clean Install)* on page 8, ensuring that you select the **Brisque to Trendsetter Connectivity** option (see page 9). • Install the Brisque Agent, using the procedure in the Brisque documentation (see *Related Documentation* on page 2). • Connect the two systems to each other and to the output device using the procedures in the Brisque documentation (see *Related Documentation* on page 2).
Brisque-to-TIFF (Screen2Go)	Install Print Console on a Print Console workstation. • Enable and license the TIFF Downloader option (see *Enabling, Licensing, and Configuring TIFF Downloader* on page 20). • Do *not* enable the **Brisque-to-Trendsetter Connectivity** option (see page 9). • Connect to the Brisque using an NFS Hummingbird connection. Use the procedures in the Brisque documentation (see *Related Documentation* on page 2). • To submit TIFF files, install the Screen2Go module on the Brisque according to the Screen2Go documentation (see *Related Documentation* on page 2).
Third-party RIPs	• Install Print Console on a Print Console workstation. • License Direct Connection or TIFF Downloader as required (see *Licensing Print Console Options* on page 20).

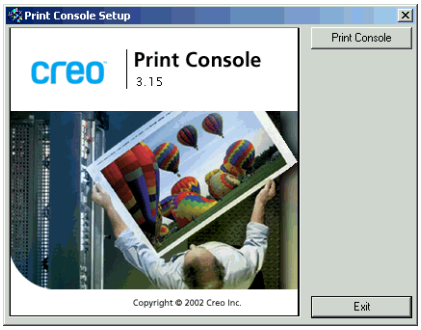
Performing a Standard Installation (Clean Install)

This procedure is for a standard installation of Print Console with the TIFF Downloader or Brisque to Trendsetter options enabled.

To perform a clean install

1. Close any programs that are running on the workstation.
2. Insert the Print Console installation CD-ROM into the workstation's CD drive.

   If the main screen does not automatically appear, manually start **autorun.exe**.



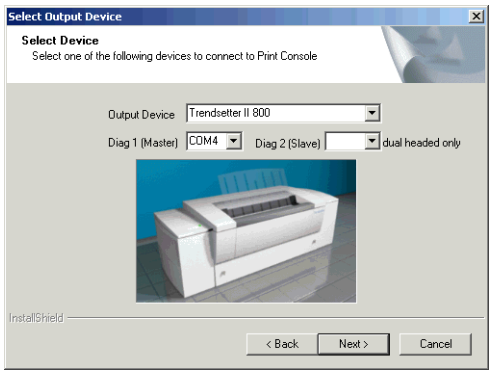
3. Click the **Print Console** button.

   If the installation program cannot find a version of Service Shell Host installed, Print Console exits the installation at this point. If this happens, follow the instructions in *Installing Service Shell* on page 5 and then restart the Print Console installation.

   When the Welcome dialog box appears, click **Next**.

   The Select Output Device dialog box appears.

4. In the **Output Device** box, select the appropriate device from the list of devices.

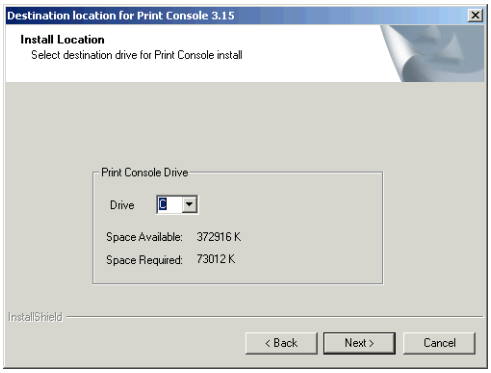


5. In the **Diagnostic Port** box, select the appropriate COM port, depending on the workstation on which you are installing Print Console, and click **Next.**

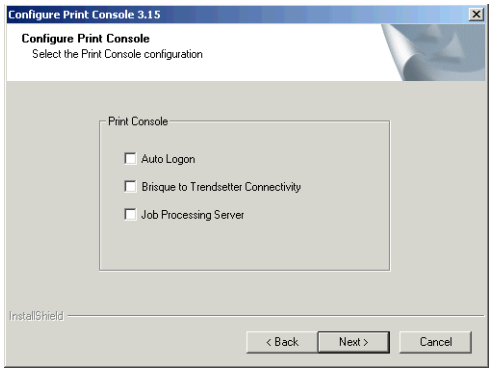
   - For Data General servers, set the **Diagnostic Port** to **COM3**.
   - For Dell servers, set **Diag 1 (Master)** to **COM4**.

     For Dual Imaging Head devices (such as the Trendsetter NEWS 200) using Dell workstations that have more than four ports, set **Diag 2 (Slave)** to **COM5**. For any other output devices, leave the default setting for **Diag 2 (Slave)** at **None**. See Appendix A for more information on standard COM port settings.

6. Select a location for the Print Console software (or accept the default) and click **Next**.

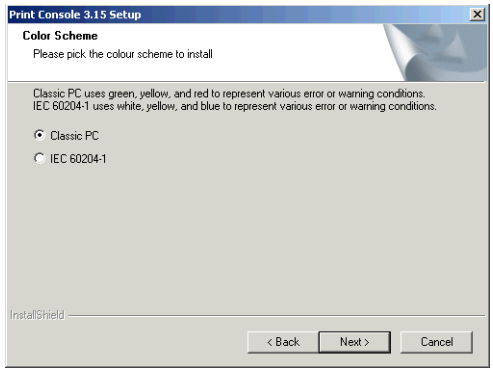


7. Select the options that you want to enable in Print Console:



   - Enable **Auto Logon** if it is appropriate for your workflow configuration. This will cause the workstation to automatically log onto the network as `PCOperator`. See *Configuring New Users for Print Console* on page 27 for information on how to add new users correctly.
   - Enable **Brisque to Trendsetter Connectivity** if you are connecting directly to the Brisque using GDAPI. Do *not* enable this option if you are connecting to Brisque with Screen2Go. See *Configuring Direct Connections* on page 19 for more procedures required to connect directly to a Brisque via GDAPI.
   - Enable **Job Processing Server** if you are connecting to a TSC News Japan device. The JPS allows the GUIs on Print Console and TSC News to communicate and sets up two instances of TIFF Downloader for the two TSC NEWS heads.

8. Click **Next** and select a color scheme.

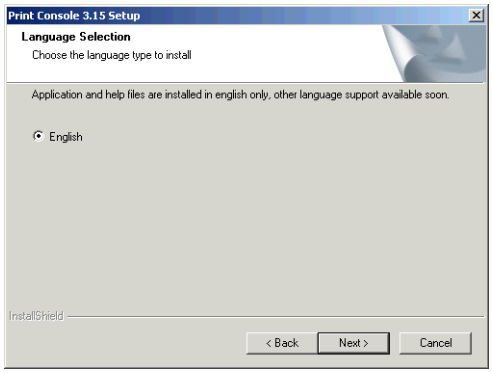


- Select **Classic PC** if you don't need to conform to the IEC60204-1 standard.
- Select **IEC60204-1** if you do need to conform.

  IEC60204-1 is a safety standard that dictates the colors of buttons and the information they convey. The original Print Console colors (**Classic PC**) do not comply with this standard.

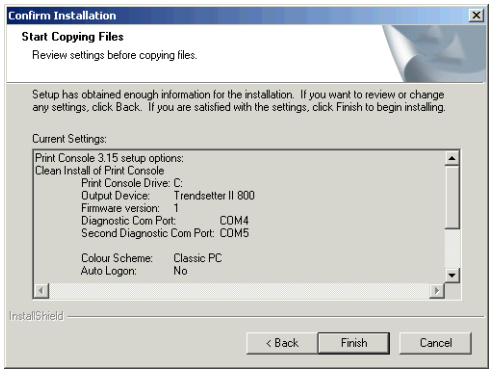
This selection can be changed later in **Configuration>Preferences**.

9. Click **Next** and select a language for the operator prompts and the help files for the online help system.



If the language you selected is not yet available, a window appears telling you that it is not available and that English will be installed. When the online help is available in that language, you can download it from eCentral and copy it to the Print Console workstation (**\PrintConsole\bin\Help** directory) to replace the English files.

10. Click **Next** and review the choices you have made.



11. Click **Finish** to continue or **Back** to return to previous screens to change installation options and settings.

    When you click **Finish**, the Print Console installation begins. Various executables and DLLs are copied to the **\PrintConsole\bin** directory.

12. Restart the workstation when prompted.

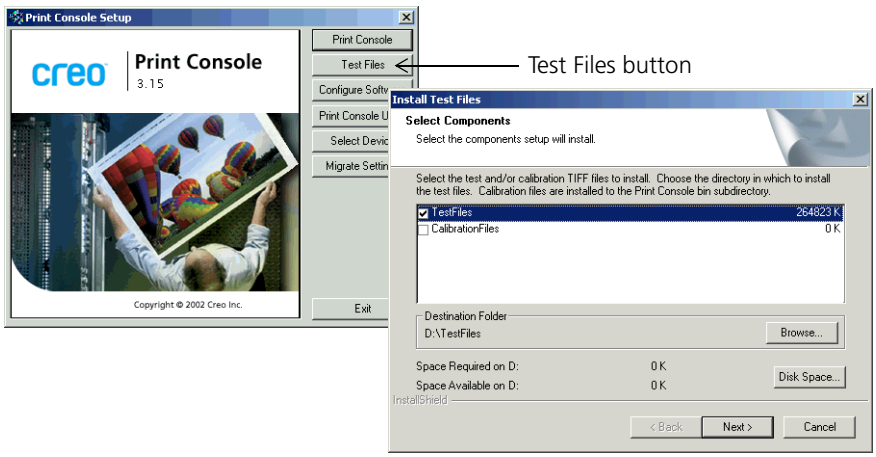
Installing Test Files

Test files are automatically installed during the Print Console installation procedure. To re-install them, select the **Test Files** option in the Print Console Setup window (see page 8).

The **Test Files** option installs a number of test files onto the workstation. Test files are a series of simple TIFF files that you can output using TIFF Downloader as the RIP. You can use them to ensure that the workstation and the device are communicating properly. This can significantly reduce the amount of time that it takes to diagnose problems with the device. (Additional device-specific test files are provided on separate CD-ROMs.)

To install Print Console Test Files:

1. Close any running programs and open the Print Console Setup program.
2. Click **Test Files**.



3. In the Select Components dialog box, select the **TestFiles** checkbox.
4. Browse to select a location for the files. The default folder is **TestFiles**.

5. If you also want to install calibration files, select the **CalibrationFiles** checkbox.

   Calibration files are always installed in the same drive and directory in which Print Console is installed.

6. Click **Next.**

7. Review your selections in the Confirm Installation dialog box and click **Next** to begin the test file installation.

   When the installation is complete, a message box appears to confirm that the files were successfully installed.

8. Click **OK**.

Installing Two Versions of Print Console on the Same System

You can install Print Console on a different logical drive on a system where another version of Print Console already exists.

If you do this, the Auto Logon feature will work differently. When you first log on to the workstation, the Auto Logon feature will automatically choose the new Print Console PCOperator user account (which triggers the new Pcop.bat file). To start the old device control software, log off and log back on using the old CTPOperator user account (which triggers the old CTPop.bat file).

If you install Print Console to a virtual drive, you may notice a problem when rebooting the workstation. When the workstation reboots, it may not be able to find any links to the software installed on the virtual drive, which means that the icons on the desktop may not show the proper images. To fix this, recreate the icons for each shortcut.

To create a virtual drive where you can install Print Console:

1. Create a folder on the drive to which you want to install. For example: **E:\Vdrive**

2. Create a batch file called **DriveSubst.bat**.

3. Include the following text:

   ```
   subst V: /d
   subst V: E:\Vdrive
   ```

   where `/d` deletes the drive mapping/substitution if already present.

4. Save **DriveSubst.bat**.

5. To make sure **DriveSubst.bat** runs each time the workstation is rebooted, move it to the **Computer Management\System Tools\System Information\Software Environment\Startup Programs** directory.

   You may have to navigate to this directory using the **My Computer** icon on the desktop.

   Or,

   Save **DriveSubst.bat** to the desktop, then drag it to **Start>Programs>Start Up**.

6. Install Print Console as described in *Performing a Standard Installation (Clean Install)* on page 8, selecting the new virtual drive (V: in this example) in step 6.

Upgrading Print Console

You can upgrade from any Print Console 3.x version to any other 3.x version. Upgrades from Print Console 1.x or 2.x to Print Console 3.x are not supported. If you are installing a 3.x version to replace a 2.x version, you must manually recreate the configuration settings.

If Print Console has already been installed on a workstation, the Print Console installation program will automatically detect it and offer you two of the following three options (depending on the state of the workstation):

Refresh Print Console files	Refreshes the Print Console executables and DLLs. This option is available only when installing the same build number/version of the software.
Clean Install	*In the same location* Automatically prompts you to back up the existing installation, uninstalls the existing installation, and then creates a new, clean installation of the Print Console software in the same location as the original install.
	In a different location Automatically prompts you to back up the existing installation, uninstalls the existing installation, and then creates a new, clean installation of the Print Console software in a new location.
Upgrade the existing install with a newer version	Replaces the existing directories (CreoSupt, Print Console, TestFiles, Service, Spools, PDF) but does not change the device you selected. If you have changed a file in one of these directories, you can restore it from your backup (see *Backing Up and Restoring Print Console Settings* on page 13) after installing the newer build. This option is available only when installing a version that is newer than the version that already exists on the workstation. The program will not overwrite an installation of a newer build.

Backing Up and Restoring Print Console Settings

Before updating an installation of Print Console, you can use the Print Console Utility option to back up the configuration settings of your existing installation. The entire Print Console registry key is backed up, including print setups and input channels. If the upgrade does not work, you can reinstall the previous Print Console version and use the Print Console Utility to restore the settings you configured for it.



Attention: Restoring backed-up registry settings is only guaranteed to work for the same release of Print Console software—that is, if you are planning to back up, refresh, and restore the same build. There is no guarantee that registry settings for an earlier build with be compatible with the registry settings of a later build. Therefore, if you encounter a problem upgrading Print Console, you must reinstall the original version before restoring from the backup.

A copy of the Print Console Utility is installed with the Print Console software and is accessible from the Windows Start menu: **Start>Programs>Print Console>Print Console Utility**. You can also access it as one of the options in the Print Console installation program.

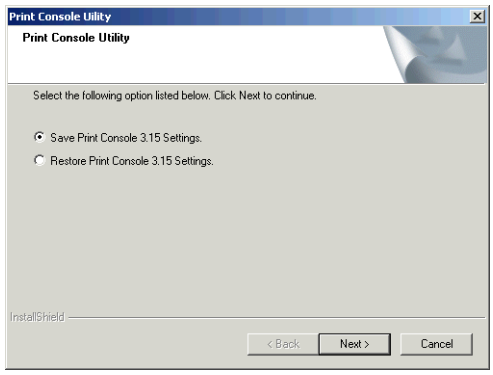
To back up Print Console registry settings:

1. Open the Print Console Utility by clicking the **Print Console Utility** button in the Install program.

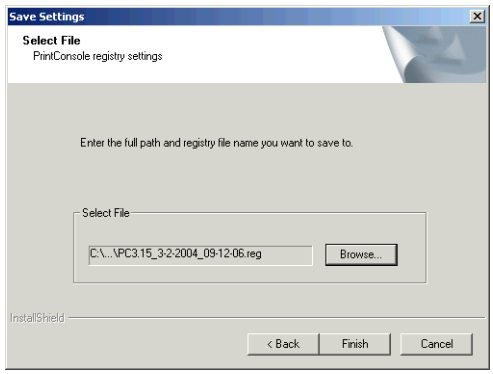
   Or,

   Launch the utility from **Start>Programs>Print Console>Print Console Utility**.

2. Select **Save Print Console settings** and click **Next**.

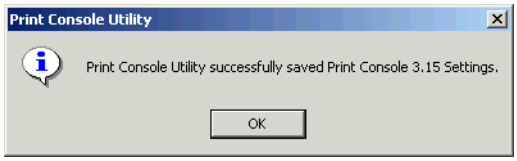


3. Enter the path and registry filename you want to save and click **Next**.



   The default is **backup\PCx.x_M_D_YYYY_hh-mm-ss. reg**, where **M** is the month, **D** is the day, **YYYY** is the year, **hh** is the hour, **mm** is the minute, and **ss** is the second.

   When you click **Next** the backup process begins. When it is complete, a message box appears indicating that the Print Console settings were successfully saved.



4. Click **OK**.

To restore Print Console registry settings:

1. Exit Print Console if it is running.

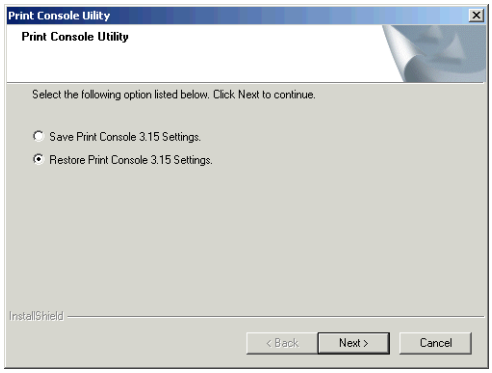
   If you attempt to restore settings while Print Console is running, everything will appear to work, but no changes will have been made to the registry.

2. Open the Print Console Utility by clicking the **Print Console Utility** button in the Install program.

   Or,

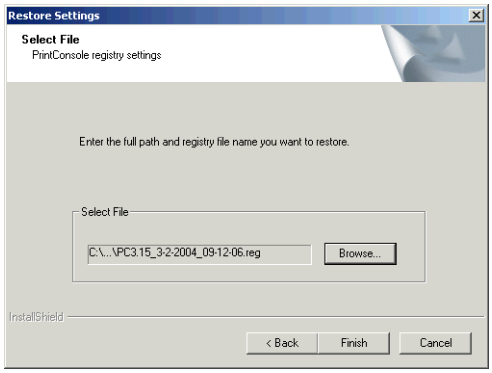
   Launch the utility from **Start>Programs>Print Console>Print Console Utility**.

3. Select **Restore Print Console settings** and click **Next**.

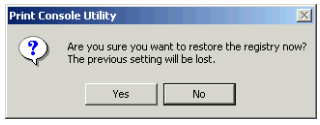


4. Enter the path and registry filename you want to restore from and click **Next**.

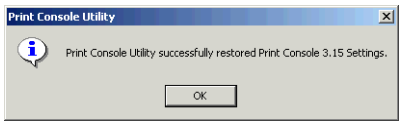
   The default is **backup\PCx.x_M_D_YYYY_hh-mm-ss. reg**, where **M** is the month, **D** is the day, **YYYY** is the year, **hh** is the hour, **mm** is the minute, and **ss** is the second.



5. Confirm (or cancel) your choice.



   If you confirm, the registry restoration process begins.When it is complete, a message box appears indicating that the Print Console settings were successfully restored.



6. Click **OK**.

Upgrade Procedure

The Print Console installation program checks for the Service Shell Host software on the workstation. If it cannot find it, it exits the installation and prompts you to install the Service Shell Host.

If the Print Console installation program finds any version of Service Shell Host, it continues with the upgrade. You should, however, ensure that the installed version of the Service Shell Host is either the same as (or later than) the version of Service Shell included in this controlled release. If it is an earlier version, replace it with the version that accompanies your new version of Print Console (see *Installing Service Shell* on page 5).

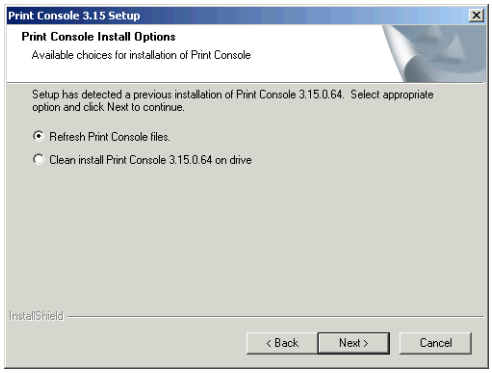
To upgrade/refresh a Print Console installation:

1. Close any running applications and open the Print Console installation program.

   When installing Print Console or selecting a different device, shut down Launch Service Host and restart it after installation is complete.



2. Click the **Print Console** button.
3. Select one of the two install options (see page 13) and follow the onscreen prompts.



If you select **Clean install of Print Console on drive C:**, you will be prompted to back up the settings from the previous installation. This is optional and is similar to the process in *To back up Print Console registry settings:* on page 14. However, the Print Console registry key is automatically saved as **printconsole.reg** in the backup directory that you specify and the **creosupt**, **pdf**, **printconsole**, and **service** folders from the original installation are copied to the backup directory that you specify.

Remember that restored settings are only guaranteed to work in the same build of Print Console software from which they were saved.

4. Open **printconsole/bin/begin.inf** and **printconsole/bin/begin.dat** and find the TIFF Downloader lines in each file. If you do *not* want the TIFF Downloader enabled, they should read as follows:

```
# the following lines should be uncommented to start the tiff downloader
#"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib70" /unique /noconsole /min /exit 0 /restartdelay 10
```

If you *do* want the TIFF Downloader enabled, they should read as follows:

```
# the following lines should be uncommented to start the tiff downloader
"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib70" /unique /noconsole /min /exit 0 /restartdelay 10
```

For more information about the TIFF Downloader, refer to *Enabling, Licensing, and Configuring TIFF Downloader* on page 20.

Uninstalling Print Console

An uninstall script is included in the Print Console installation.

To uninstall Print Console:

1. Go to **Start>Settings>Control Panel>Add/Remove Programs**.
2. Select **Print Console** from the list of installed components.
3. Click **Add/Remove**.

4. Follow the onscreen instructions.



Attention: Do not delete the **uninst.isu** file found in the PrintConsole\bin folder. It must be present for the uninstall script to work.

Configuring Service Shell

The Print Console installation program configures most of what is needed for you to start using the software. Depending on the workstation's configuration, however, there may be some minimum settings that will require manual configuration.

If you are using the Service Shell Client in Service Shell version 2.4 or earlier, you will need to edit the **LogFileSrv.ini** file in the **\ServiceShell\Bin** directory to make Print Console logs appear in the **Remote** list.



Note: If you are using Service Shell version 2.5, you will make all required configurations in the Configuration Wizard that is part of the installation program.

To view Print Console log files in the Remote section of Service Shell Client:

1. In the **\ServiceShell\Bin** directory, use a text editor to open the **LogFileSrv.ini** file.
2. In the **Install0Log2Path** line, add the path to the Print Console log files.

   The files should look like this (the drive letters may vary depending on the configuration of your system):

   ```
   [ LogFileSrv]

   [ LogPathList]
   Install0Log1Path=c:\ServiceShell\logs
   Install0Log2Path=c:\PrintConsole\log
   ```

3. Save the file.

Configuring Print Console

The Print Console installation program configures most of what is needed for you to start using the software. Depending on the workstation's configuration, however, there may be some settings that will require manual configuration.

To configure Print Console settings, start the Print Console software and click the **Configuration** button.

Depending on the output device, you will have different types of configurations available. They may include settings for:

- **Device Media**
- **Media Sizes**
- **Print Setups**
- **Proof Color Table**
- **Generate PPD**
- **Hot Folders**
- **Preferences**
- **Service**

For detailed information on configuring Print Console for a specific device or workflow, refer to the Print Console online help or to an appropriate workflow-specific technical bulletin. See *Related Documentation* on page 2.



Note: Clicking the **Configure Software** button in the installation program does not give you the same options as clicking the **Configuration** button in the program.

The **Configure Software** button allows you to configure the options in the Configure Print Console dialog box in the installation program (**Auto Logon**, **Brisque to Trendsetter Connectivity**, **Job Processing Server**).

Configuring Direct Connections

Installing the Brisque Agent

To connect a Brisque (version 4.0) to Print Console, you must install the Brisque Agent. This program enables the Generic Device Application Programming Interface (GDAPI) between Brisque and Print Console. The Brisque Agent is one of the components of the controlled release.

The first time you install the Brisque Agent, install it:

- After installing Print Console
- On the same workstation as Print Console
- On the same drive as Print Console

If you are upgrading to a new version of Brisque Agent, do one of the following:

- Remove the old version from the workstation
- Rename the old version **brisqueagent.bat.old**. This creates a backup of the old file.

To install and configure the Brisque Agent, use the procedures in the Brisque documentation (see *Related Documentation* on page 2).

Licensing Print Console Options

Some Print Console options require licenses:

Direct Connection	Licensing direct connections is required only if you are connecting a third-party RIP to Print Console using GDAPI. It is not required for Prinergy, Brisque, or TIFF Downloader connectivity.
TIFF Downloader	If you are using the TIFF Downloader for diagnostic purposes, you do not require a license key. A one-inch by five-inch label reading `Creo Diagnostic Tool` is superimposed on the imaged output media. Depending on the size of the media, it may appear up to three times. To use the TIFF Downloader as part of your workflow, it requires a license key.
Variable Mainscan Resolution	Licensing is required if you are using VMR (for lenticular printing)

To license a Print Console option:

1. Go to **Configuration>Preferences>Licenses** and find the **System ID** for the option you want to license:
   - **Direct Connection**
   - **TIFF Downloader**
   - **Variable Mainscan Resolution**
2. Send the System ID to a Creo service representative with a request for a license key.

   Creo will generate a license key and send it back to you.
3. Return to **Configuration>Preferences>Licenses** and enter the license key in the **License key** box for the option you want to license.

Enabling, Licensing, and Configuring TIFF Downloader

Systems that submit one-bit TIFF files to a device via Print Console must enable, license, and correctly configure the TIFF Downloader. The TIFF Downloader is a tool that opens TIFF files and outputs the raster to the output device as commanded by Print Console.

Enabling

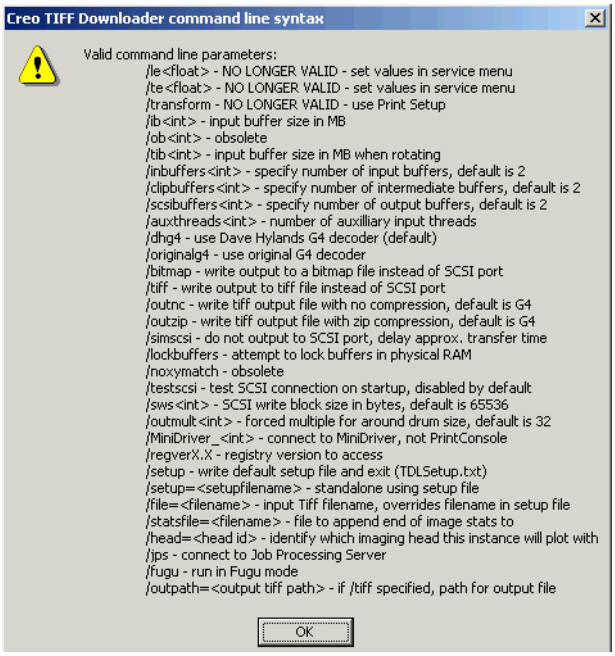
If you selected the TIFF Downloader option when you installed Print Console, TIFF Downloader will already be enabled. This command line will appear in the Print Console **begin.inf** file:

```
"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib70" /
unique /noconsole /min /exit 0 /restartdelay 10
```

Licensing

You do not require a license to use TIFF Downloader as a diagnostic tool. You do need to license it if you will be using it as part of your workflow. See *Licensing Print Console Options* on page 20. The license will take effect on the next image.

Configuration Parameters



The following table includes TIFF Downloader parameters. Many of the command line switches are not normally used, but they may be useful for testing or for special cases. For example, if you are having problems with a file that is transformed, you may want to increment the **/tib<n>** command. Or, if you are having problems with retraces, you may want to do the same to the **/sws<n>** command.

/le<float>	No longer valid in the command line. Now specified in the Device Margins dialog box in the **Service** pane.
/te<float>	No longer valid in the command line. Now specified in the Device Margins dialog box in the **Service** pane.
/transform	No longer valid in the command line. See the **TIFF** tab in the **Print Setups** pane.
/ib<int>	Force input buffer size in MB
/ob<int>	No longer valid.
/tib<int>	Force input buffer size in MB when rotating by 0 or 180 degrees. (For Print Console 2.0, force the input buffer size when transforming.)

/inbuffers<int>	Specify number of input buffers per image. Defaults to 2.
/clipbuffers<int>	Specify the number of intermediate buffers. Defaults to 2.
/scsibuffers<int>	Specify number of output buffers. Defaults to 2.
/auxthreads<int>	Number of auxiliary input threads.
/dhg4	Use Dave Hylands G4 decoder (default)
/originalg4	Use fixed version of original libtiff G4 decoder.
/bitmap	Write output to a bitmap file instead of SCSI port (for testing)
/tiff	Write output to TIFF file instead of SCSI port (for testing)
/outnc	If **/tiff** is enabled, specifies that the output TIFF file should not be compressed
/outzip	If **/tiff** is enabled, specifies that the output TIFF file compression scheme should be Zip (that is, Flate or Zlib)
/simscsi	Do not output to SCSI port. Delay approx. transfer time (for testing)
/lockbuffers	Attempt to lock buffers in physical RAM.
/noxymatch	Obsolete. X and Y resolutions no longer have to match by default.
/testscsi	Test SCSI connection between TIFF Downloader and device on startup. The startup test is disabled by default.
/sws<int>	SCSI write block size in bytes. Default is 65536.
/outmult<int>	Forced multiple for around drum size. Default is 32.
/MiniDriver_<int>	Connect to MiniDriver, not Print Console
/regverX.X	Registry version to access
/setup	When no filename is specified, the TIFF Downloader creates (or overwrites) a default setup file (**TDLSetup.txt**) in the current directory and exits. See **/setup=*filename***.

/setup=<setupfilename>	Instructs the TIFF Downloader to operate in standalone mode using parameters from the specified setup file. The TIFF Downloader images a single plate and then exits. The setup file must have been created by the **/setup** command. Note that the filename specified by **/file=** overrides the filename in the setup file when not ganging.
/file=<filename>	Instructs the TIFF Downloader to operate in standalone mode. A single plate is imaged using <filename> as the input TIFF, and then the TIFF Downloader exits. The TIFF Downloader uses parameters from a setup file if **/setup=*filename*** is specified. Otherwise it uses default parameters.
/statsfile=<filename>	Appends timing statistics from each image to the end of the specified file. If no path is specified, the file is assumed to be in **PrintConsole\bin**. If the files does not already exist, it is created. Check the size of this file periodically because the TIFF Downloader will never delete or rename it.
/head=<head id>	Identify which imaging head this instance will plot with.
/jps	Connect to Job Processing Server
/fugu	Run in Fugu mode
/outpath=<outpath tiff path>	If **/tiff** is specified, path for output file

Compression

All image files should be compressed. Creo recommends using either G4 or LZW. Some types of files, such as those used with stochastic screening, may not compress properly with G4. The TIFF Downloader supports Flate (also known as Zip or Zlib) compression. Although not widely supported at the present, it performs well with most file types.

If the new G4 decoder cannot process a particular G4 file, the original G4 decoder may be able to. Enable the original G4 decoder via the appropriate **begin.inf** file command line using the **/originalg4** switch as shown below (note the placement of the quotation marks):

```
"tiffdownloader /auxthreads4 /sws1048576 /tib70 /originalg4" /
unique /noconsole /min /exit 0 /restartdelay 10
```



Note: TIFF files cannot be larger than 4 GB. However, the uncompressed image size can be larger than 4 GB and therefore large images, such as larger VLF images) must be compressed.

These standard TIFF compression schemes are available in the TIFF Downloader:

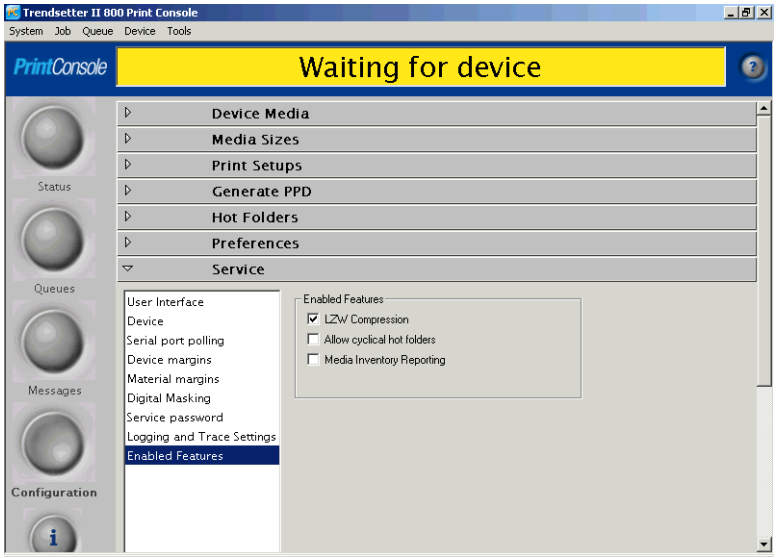
Uncompressed	
CCITT G3 fax encoding	
CCITT G4 fax encoding	
LZW	For licensing information, see page 24.
Packbits	A form of Run Length Encoding (RLE). Good only for sparse images (images with lots of white space). Poor for screened images.
Modified Huffman	A form of RLE. Good only for sparse images (images with lots of white space). Poor for screened images.
Flate	Also known as Zip or Zlib. Not officially part of the TIFF specification, but gaining acceptance.

Enabling Features

If a customer has paid for the LZW compression, Allow cyclical hot folders, or Media Inventory Reporting features, you can enable these on the **Service** pane.

To enable features:

1. Go to the **Configuration** screen and press CTRL+ALT+S.
2. In the Enter the Service password dialog box, enter the service pane password in the **Password** box.
3. Select the **Enabled Features** option and select the checkboxes for the required functions.



4. Restart Print Console to make the changes take effect.

Image Mirroring and Rotation

TIFF Downloader supports two forms of mirroring: around and along the drum axis. These are independent of rotation options. Mirroring and rotation is necessary to support the Spectrum digital halftone proofing devices or for TIFF files that are incorrectly mirrored for the intended media. This feature is selected in the **TIFF Downloader tab** in the **Print Setups** pane.

TIFF Downloader can mirror the image with little degradation in performance. Note that the image is mirrored around the center of the plate, not the center of the image. The leading and trailing edge clips are applied after the image is mirrored. In other words, the leading edge clip still applies to the leading edge of the plate.

Tiled files can now be rotated and mirrored with little or no noticeable performance degradation, which can be useful if the image has not been prerotated by the RIP. Striped files, however, will take longer because they must first be rewritten to a temporary tiled file. Stripped files will therefore be delayed at the start while the TIFF Downloader writes the temporary file. The delay will be approximately two to five minutes for a gigabyte image (that is, 32 x 44 inches at 2400 dpi).

If possible, the temporary file should be placed in a temporary directory in the image file's path. If there is not enough free space, the temporary directory will be created in the TIFF Downloader's executable path. The image will fail if adequate free space is not found.

To configure the TIFF Downloader to write a temporary file to a different drive for better performance:

1. Open the TIFF Downloader key in the registry:

   HKEY_LOCAL_MACHINE\SOFTWARE\Creo\PrintConsole\v*x.x*\TiffDownloader

2. Right-click the TIFFDownloader key and select **New>String Value**.

3. Name the new key **TransformTempFolder**.

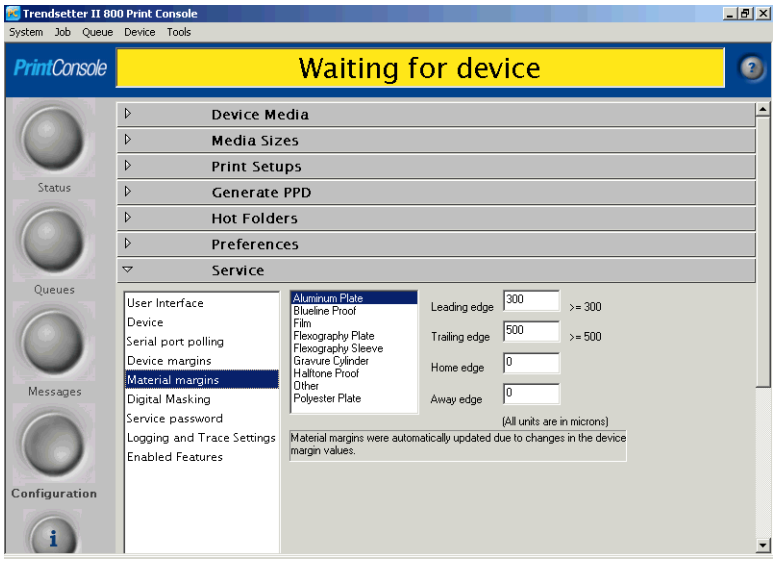
4. Double-click **TransformTempFolder** and enter the path to the temporary file in the Edit String dialog box (for example, **e:\TDLTemp**).

   Make sure this temporary directory is not on the same drive as the Spool (data) drive.

Image Clipping/Margins

The margins define areas of the media that cannot be imaged. The output device will not allow imaging in these areas, and so the TIFF Downloader removes these areas from the image file before it is output. The exact handling of the margins depends on image size and media size and on whether you have enabled the **Center Image** options. Refer to the Print Console online help for more information on centering.

TIFF Downloader supports clipping of all four sides of output media via the Print Console software. This option is not available to regular users/operators. These clippings can be entered for each device media using **Service>Material Margins**.



If the **Center Image** options are not enabled, the TIFF Downloader removes the leading and home edge margins from the image. The trailing and away edge margins are removed from the image only if they extend into these regions on the plate.

For example, if the margins are set as follows:

Leading edge	240 mils
Trailing edge	300 mils
Home edge	100 mils
Away edge	100 mils

and a 32 x 44 inch version of a file is to imaged on a 32 x 44 inch plate, all margins would be applied and the TIFF Downloader would output an image that is 31.45 x 43.8 inches. If this same file were imaged on a 22 x 33 inch plate, the TIFF Downloader would produce a 21.45 x 32.8 image.

There is a minor limitation, however, in the way the TIFF Downloader handles the leading edge clip for the normal case where there is no mirroring or rotating. The leading edge clip is converted to pixels and rounded down to the nearest multiple of 8. For example, if a leading edge clip of 115 mils is specified for a 2400 DPI image, the actual leading edge clip will be 113.3 mils (corresponding to 272 pixels instead of 276). The image position on the plate will be shifted by the rounded-off amount, but the overall image size will not be adjusted (that is, the trailing edge clip is increased by the rounded-off amount). The same type of rounding will occur with the home edge clip for transformed files.

Configuring Animation Settings

You have the option of turning the animation on or off, or setting it to **Single-Frame** mode.

To configure animation settings

1. Go to **Configuration>Preferences>General>Panels>Device Status>Animations**.
2. In the drop-down list, select **Off**, **Single-Frame**, or **Full**.

Configuring New Users for Print Console

When you install Print Console, the installation program automatically creates a default user name called PCOperator with a given set of permissions. If you enable the **Auto Logon** option during the installation, the system automatically logs in as PCOperator and the program works correctly.

If, however, you did not enable **Auto Logon** and if you do not log in as PCOperator when prompted, you may not have permission to process jobs. Specifically, if a user does not have the Increase Scheduling Priority permission, the TIFF Downloader may issue the following error message on every image: `Insufficient memory available, performance may be affected`.

To add the Increase Scheduling Priority permission to any user names that log into Print Console:

1. Go to **Start>Settings>Control Panel>Administrative Tools>Local Security Policy.**

   The Local Security Settings dialog box appears.
2. Select **Local Policies** and then **User Rights Assignment.**
3. Scroll down to find the **Increase Scheduling Priority** entry and right-click it.
4. Select **Security** and then **Add**.
5. Scroll down to find the account name that Print Console is started from (normally PCOperator) and select it.
6. Select **Add** and then select **OK.**

For more information refer to the *User Rights on a Print Console Workstation* document (see *Related Documentation* on page 2).

Specific Configurations

For more detailed information about configuring Print Console, refer to the Print Console online help system.

A COM Port Assignments

These are the COM port assignments for standard hardware configurations.

Data General servers		
COM1	In the motherboard	Workstation Serial Interface
COM2	In the motherboard	UPS
COM3	On the DuoCom board	Recorder Diagnostics
COM4	On the DuoCom board	Modem

Dell servers		
COM1	In the motherboard	Modem
COM2	In the motherboard	UPS
COM3 (P1)*	On the Digiboard Classic board	Workstation Serial Interface
COM4 (P2)*	On the Digiboard Classic board	Recorder Diagnostics
COM5 (P3)*	On the Digiboard Classic board	Head Diagnostic
COM6 (P4)*	On the Digiboard Classic board	Harmony Densitometer Interface
*P1, P2, and so on refer to the cable numbers.		

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