

PrintConsole

Print Console 2.1 Installation

Document Number
73-3305D-A-PR01

April 3, 2001

CreoScitex Inc.
3700 Gilmore Way
Burnaby, BC
Canada V5G 4M1

(604) 451-2700

Copyright 2000 Creo Products Inc. All rights reserved.

Revision History

Revision	Date	Author	Comments
Vers. A, Rev A	19-Aug-99	T. Bolander	Released for the EP version of Print Console 1.0 (1.0.0.53)
Vers. A, Rev B	08-Oct-99	T. Bolander	Updated for Print Console 1.0.1 (version 1.0.1.1)
Vers. A, Rev C	29-Nov-99	T. Bolander	Updated for Print Console 1.0.2 (version 1.0.2.2)
Vers. B, Rev C	21-Mar-2000	T. Bolander	Updated for Print Console 1.1 (version 1.1.0.15)
Vers. C, Rev A	16-Oct-00	G. D'Auria	Updated for Print Console 2.0 (version 2.0.1.23)
Vers. D, Rev A	30-Mar-01	G. D'Auria	Updated for Print Console 2.1 (version 2.1.0.36)

CreoScitex

A division of Creo Products Inc.

Print Console 2.1 Installation

CONTENTS

Revision History i

1. Introduction 1

2. Scope 1

3. Related Documentation 1

4. Requirements 2

5. Installation 3
   - 5.1 Clean Install 4
     - 5.1.1 Installing Print Console 4
   - 5.2 Installing Service Shell Host 11
   - 5.3 Migrating Workstation Software Settings to Print Console 11
     - 5.3.1 Migrating Device Control Software Settings 12
   - 5.4 Installing Test Files 14
   - 5.5 Installing Print Console on a System Where a Version of Workstation Software Already Exists 16
   - 5.6 Upgrading an Existing Print Console 2.x Installation 17
     - 5.6.1 Backing-Up Print Console Settings 17
     - 5.6.2 Upgrading Print Console 18
     - 5.6.3 Restoring Print Console Settings 20
   - 5.7 Uninstalling Print Console 21

6. Configuration 21
   - 6.1 Configuring Device Media 21
   - 6.2 Configuring Media Sizes 23
   - 6.3 Configuring Print Setups 24
   - 6.4 Configuring Direct Connections 25
     - 6.4.1 Installing the Brisque Agent 25
     - 6.4.2 Licensing Direct Connections 28
   - 6.5 Configuring TIFF Downloader 29

6.5.1 TIFF Downloader Overview 29
6.5.2 Licensing 30
6.5.3 Compression 30
6.5.4 ThermoFlex Digital Masking 31
6.5.5 Image Mirroring and Rotation 31
6.5.6 Image Clipping/Margins 32
6.7 Configuring Animation Settings 33
6.8 Other Configurations 33
6.8.1 Configuring New Users for Print Console 33
6.8.2 Specific Configurations 33

1. INTRODUCTION

With the exception of devices with Green heads, Print Console 2.1 software drives all ex-Creo output devices. It interfaces with workflow software (RIPs, digital front-ends) via either a hot folder connection to TIFF Downloader or a direct connection via the GDAPI. (Generic Device Application Programming Interface).

2. SCOPE

This document explains the various installation options for Print Console 2.1. This document does not cover the use of Print Console: please refer to the Print Console 2.1 user documentation listed in the "Related Documentation" section below.

The following topics are covered:

- Related Documentation
- Requirements
- Installation, including:
  - Clean installation
  - Migrating existing workstation software settings
  - Brisque Agent installation
  - Installing Test Files
  - Installing Print Console on a system where a version of Workstation Software already exists
  - Upgrading an existing installation of Print Console
  - Uninstalling Print Console
- Configuration, including
  - Configuring Print Console
  - Configuring direct (GDAPI) connections
  - Configuring TIFF Downloader

3. RELATED DOCUMENTATION

Print Console now has a context-sensitive online help system. It contains reference material and procedural information for all features and functions of Print Console.

Other documentation:

- *Print Console 2.x Specification (not currently available)*
- *Print Console 2.x Quick Start Guide (03-4160A-B)*
- *Print Console 2.1 Release Notes (06-3287D-A—not yet available)*

- *Print Console 2.0 Migration Guide (77-0128A-A)*
- For Brisque Screen2Go installations,
  - *Brisque to Trendsetter Connectivity via Screen2Go—Installation Guide (Cat. No. 399Z1P903A)*
  - *Brisque to Trendsetter Connectivity via Screen2Go—User Guide (Cat. No. 399Z1P904A)*
- For Brisque Direct installations,
  - *Brisque to Trendsetter: Spectrum Connectivity (Cat. No. 399Z1P760A)*
- For Prinergy 2.0 installations,
  - *Prinergy 2.0 and Print Console 2.0 Technical Bulletin (78-0039D-A)*
  - *Imaging Thermal Bluelines Using Prinergy and Print Console (78-0083B-A)*
  - *Prinergy 2.0 Hardware Configuration and Windows 2000 Configuration (72-3476A-B)*
  - *Prinergy 2.0 Factory Installation (72-3497A)*
- For ThermoFlex installations, *TIFF Front End Server Installation Procedure (73-3344A).*

4. REQUIREMENTS

Print Console 2.1 requires a workstation/server running Windows 2000. NetBEUI and TCP/IP network protocols must be installed and configured. If Unix network connectivity is required, Hummingbird NFS must also be installed and configured.

Note that Print Console is installed on different workstations depending on the output device and workflow. For a ThermoFlex workflow, Print Console is installed on the TIFF Front End server; for Prinergy, Print Console is installed on the Prinergy Render Station (secondary server); for integration with a Brisque or a third-party RIP, Print Console is installed on a CRI Workstation.

Workstations/servers that Print Console is to be installed on should include high-resolution, 24-bit video cards, optimized for the Windows Graphics Device Interface (GDI), with a minimum of 4MB of video RAM. The workstation's video display must be set to a minimum of 800 by 600 pixels and a minimum of 65536 colors in order to install and run the Print Console software; however 1024 by 768 resolution and true color (24-bit) display are recommended.

Because Print Console resides on a workstation that is connected to an output device, Print Console shares, by default, the same system environment requirements as similar workstations (an Allegro Workstation, for example) and the various output devices that they can control. For more information, refer to the Allegro Workstation Installation Procedure (73-2085A) and to the site requirements documents for any of the Print Console 2.1-qualified output devices.

Disk space requirements for a Print Console installation are as follows:

Print Console directory	~92.3MB (includes full set of animation images for one output device and online help files)
CreoSupt directory	~8.7MB
PDF directory	~10.8MB
TestFiles directory	~20.1MB
Spool directory	Data dependent
Total	Approximately 133MB*

*This figure represents the amount of disk space needed to install Print Console. Since the disk space required for the Spool directory fluctuates, you will need more disk space to actually operate Print Console once installed.

5. INSTALLATION

To install Print Console, log on to the workstation/server as a user with administrative rights to that computer.

The Print Console 2.1 install CD includes a single install program. The installation program's main screen (Figure 5.1), which features a number of options down the right side of the dialog box, should automatically display shortly after you insert the install CD into the workstation's CD drive. If the install screen doesn't automatically appear, manually start the program by running **autorun.exe**.



Figure 5.1

The installation program offers the following options:

- **Print Console**–installs Print Console control software for the selected device model, with the Sample RIP (RIP simulator software)
- **Test Files**–installs a number of test files (note that additional device-specific test files will be provided on separate CDs)
- **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, and to configure Print Console to interface with a different device
- **Migrate Settings**—migrates certain settings from existing CreoScitex device control applications.

The installation program makes a number of checks to determine what type of installation it will do. For each different type of installation, the location of directories, files, and registry entries are different. The screens and prompts displayed also vary depending on the type of installation being performed. The first time you run the Print Console installation program, the clean install option is automatically selected (refer to the following "Clean Install" section). If you have previously installed Print Console, the installation program instead offers several upgrade options (see "Upgrading an Existing Print Console" on page 17).

5.1 Clean Install

The first time you run the Print Console installation program, the clean install option is automatically selected.

5.1.1 Installing Print Console

Selecting the installation program's Print Console option installs Print Console control software for the selected device model, 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.

Note that Print Console is installed on different workstations depending on the output device and workflow:

- For a ThermoFlex device, Print Console is installed on the TIFF Front End server (TIFF Front End includes TIFF Assembler, Copydot Toolkit Viewer, and Print Console). Install Print Console according to the instructions that follow, and ensure that the TIFF Downloader option is enabled, that the Auto Logon option is *disabled*, and that the Spool Drive points to T (DATAOUT drive) during the install.

  CAUTION! DLL conflicts can occur during a TIFF Front End/Print Console installation! Ensure you install Print Console before installing TIFF Assembler. For more information, refer to the TIFF Front End server installation documentation*(TIFF Front End Server Installation Procedure, 73-3344A).*

- For integration with other third-party RIPs, Print Console is installed on a CRI Workstation.

- For a Brisque-to-TIFF system (Screen2Go), Print Console is installed on a CRI workstation with the TIFF Downloader option enabled and connects to the Brisque via an NFS Hummingbird connection. To submit TIFF files, you must install the Screen2Go module on the Brisque according to the Screen2Go documentation.

  Note: For Brisque Screen2Go installations, do not enable the Brisque-to-Trendsetter option during the installation of Print Console.

- For a Brisque Direct system, Print Console is installed on a CRI workstation with the Brisque to Trendsetter option enabled and connects to the Brisque via the GDAPI:

    1. Install and configure the Brisque 4.0 following the appropriate installation procedures.

    2. Install Print Console on the CRI workstation, making sure to select the Brisque to Trendsetter option.

    3. From the Print Console CD, install the Brisque Agent according to the Brisque Agent procedure contained in this document.

    4. Connect the two systems to each other and the output device according to the "Brisque to Trendsetter: Spectrum Connectivity (Cat. No. 399Z1P760A)" document.

- For a Prinergy system, Print Console is installed on the Prinergy Render Station (secondary server):

    1. Install and configure the Prinergy Render Station according to the "Prinergy Hardware Configuration and Windows NT Installation" document (72-3294A).

    2. Install Print Console according to the instructions that follow, and ensure that the TIFF Downloader option is enabled during the install. (Note that a Prinergy installation of Print Console requires different install locations: the Print Console drive should be D: and the Spool drive should be E:).

    3. Follow the "Setting Up Output Devices" instructions in the "Prinergy Installation Guide" document (03-4121A).

To perform a standard installation of Print Console with the TIFF Downloader or Brisque to Trendsetter options enabled:

1. Close any running applications.

2. The main screen, which features several installation options down the right side of the dialog box, should automatically pop up when you insert the install CD into the workstation's CD drive. If the install screen doesn't automatically appear, manually start the **autorun.exe**.

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

4. The Welcome dialog box appears (see Figure 5.2). Click **Next >** to proceed (or click **Cancel** to exit the setup program).



Figure 5.2

5. The Output device dialog box appears (see Figure 5.3). Select the appropriate device and ports, and click **Next >** to proceed.

   Note: Some device models have "+" versions, for example, Trendsetter 3244+. The "+" refers to devices that have alternate color shells. Make sure to select the output device image that matches the actual device.

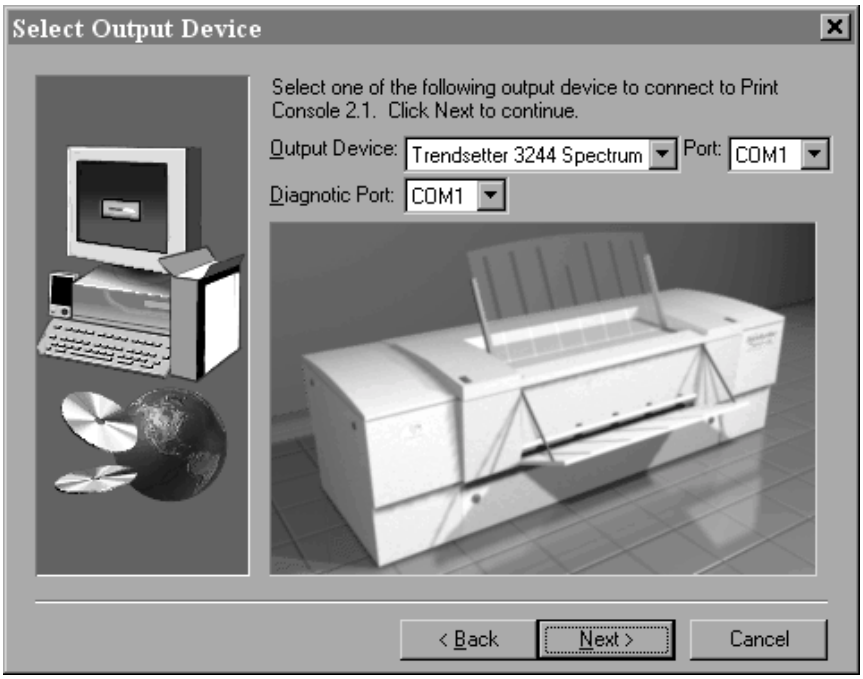


Figure 5.3

6. The Destination location dialog box appears (see Figure 5.4). Select a location for the Print Console software (the default is E: drive) and a location for the spool folders (the default is D: drive), and click **Next >** to proceed.

   Note: for best performance, ensure the Spool drive and the Print Console drive are on different physical drives (although the install program should choose the best option depending on the application server).

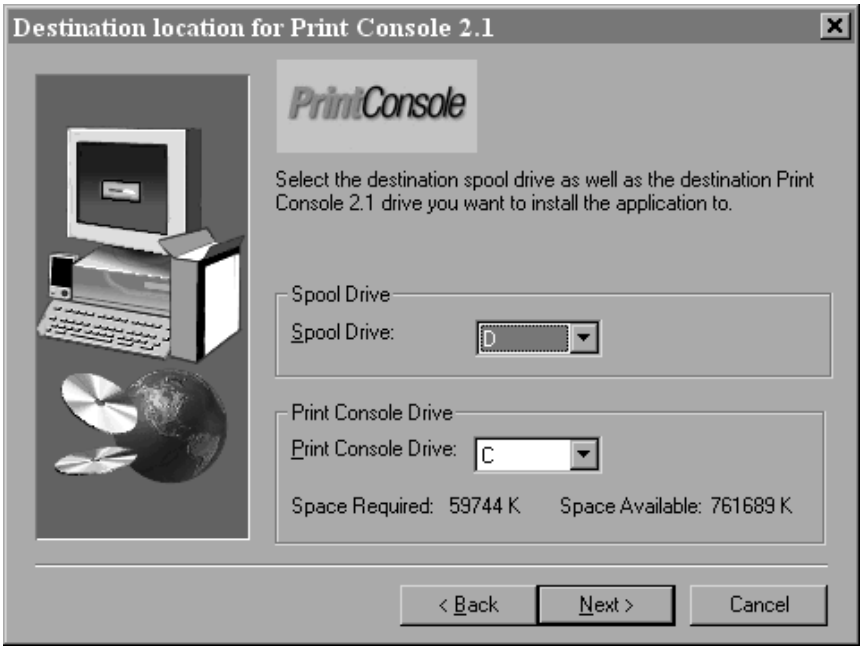


Figure 5.4

7. The Configure Print Console dialog box appears (see Figure 5.5).

   - Select the Auto Logon if you want the workstation to automatically log onto the network as "PCOperator". Select this option if it is appropriate for your workflow configuration.

   Note: See Configuring New Users for Print Console on page 33 for information on how to add new users correctly.

   - Select the TIFF Downloader option if you want TIFF Downloader to be installed and enabled.

   - Select Brisque to Trendsetter Connectivity if you are connecting directly to the Brisque via GDAPI (not via Screen2Go).

   Note: See Installing the Brisque Agent on page 25 for further procedures required to connect directly to a Brisque via GDAPI.

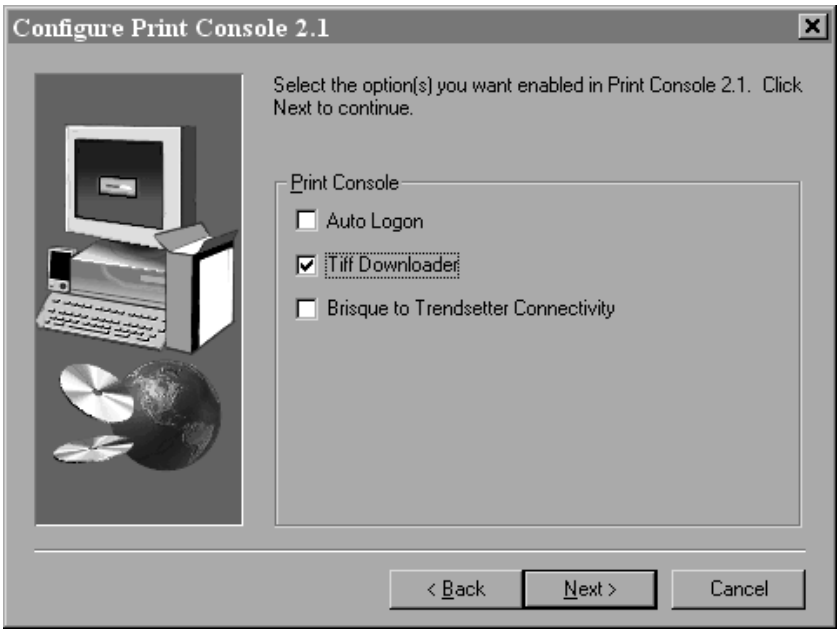

Configure Print Console 2.1
Select the option(s) you want enabled in Print Console 2.1. Click Next to continue.
Print Console
Auto Logon
Tiff Downloader
Brisque to Trendsetter Connectivity
< Back
Next >
Cancel

Figure 5.5

8. The Confirm Installation dialog box appears (see Figure 5.6). Review the choices you have made, then click **Next >** to proceed (or click **< Back** to return to previous screens in order to change installation options and settings).

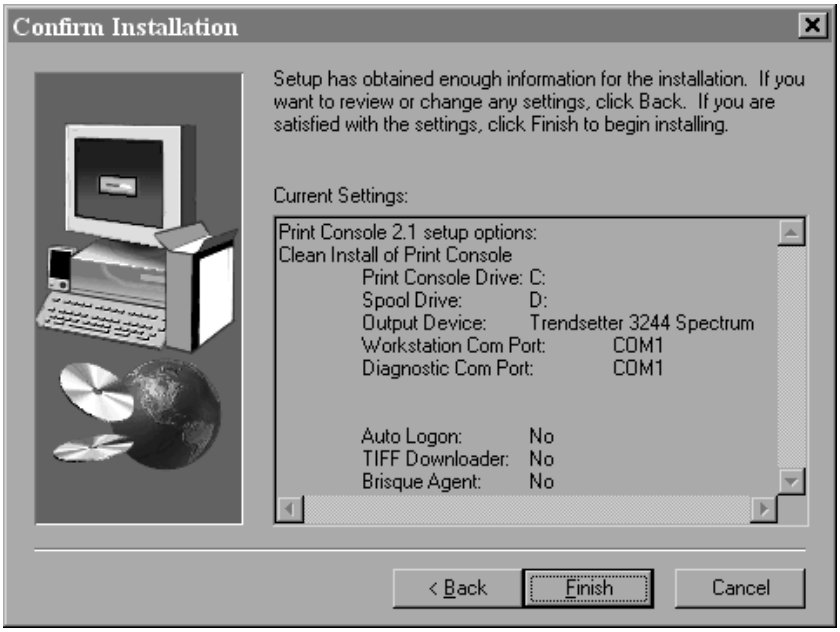


Figure 5.6

The Print Console installation begins, and the various executables and DLLs are copied to the **\PrintConsole\bin** directory.

9. Just before the installation completes, the Service Shell installation program starts.

   - If you choose to install Service Shell at this point, go to step 2 in the Installing Service Shell Host section on page 11.
   - If not, close the dialog box and go to the next step.

10. When the installation is complete, a readme.txt file appears warning you to make sure the gc mss value (geometric correction main scan shift) in the device firmware matches the value in the Clip for Leading Edge Clamp in the Device Margins tab in the Print Console Service pane. If these values do not match, you much **change the value in the firmware**; otherwise, image shifting may occur. Follow the directions in the Readme document to ensure this does not happen.

11. Close the Readme.txt file. If the installation detects existing CreoScitex device control software on the workstation, it displays a dialog box prompting you to migrate the settings to Print Console.

    - If you choose to run the Migration Utility at this point, select **Yes** and go to step 2 in the Migrating Device Control Software Settings section on page 11.
    - If not, close the dialog box and choose to restart the workstation when prompted.

    Note: You can run the migration utility at any point in the future by choosing the Migrate Settings option from the Print Console installation program.

5.2 Installing Service Shell Host

Service Shell is a software tool used to perform maintenance, service, test, and calibration operations locally or through remote access. To use it, you need to install the host and the client software: the host software is installed on the Print Console workstation (and can be installed during the installation); the client software can be installed on the same workstation or on system on the network and can be installed from the Print Console CD. Splot, another service tool, is installed with the Service Shell Client software, not the Service Shell Host software.

To install Service Shell Host:

1. From the Print Console CD, double-click the Setup.exe file in the **\ServiceShell\Host** directory (if the installation program is not already running).
2. The Service Shell Welcome screen appears. Click **Next >** to proceed.

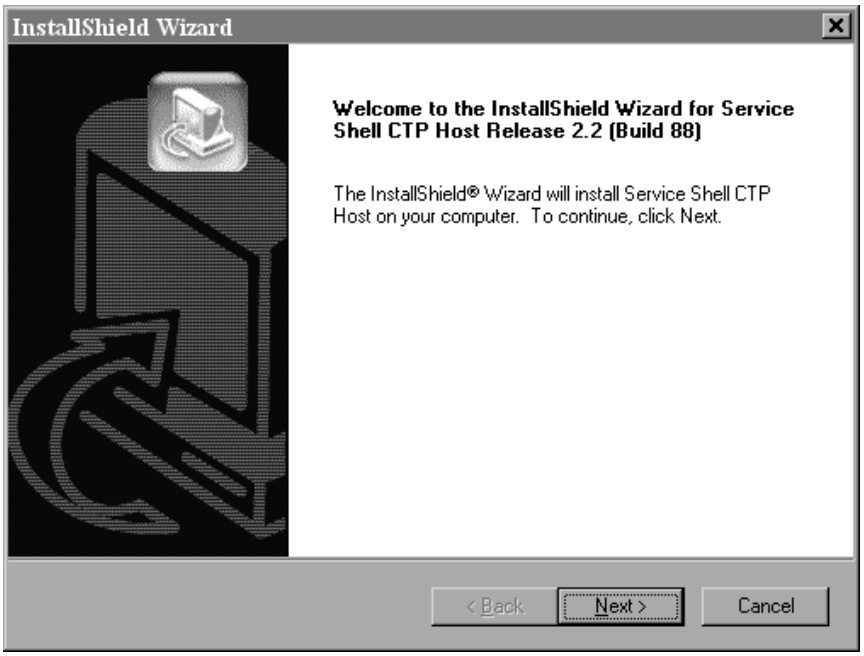


Figure 5.7

3. Follow the on-screen prompts to install the Service Shell Host.

Note: Again, you can install the Service Shell Client software from the Print Console CD by double-clicking the **Setup.exe** file in the **\ServiceShell\Client** directory.

5.3 Migrating Workstation Software Settings to Print Console

If you installed Print Console on a system that has other CreoScitex Workstation Software (Print Console 1.x, Allegro Workstation 1.2/1.7, or PCS/TCS 2.0), the installation program launches the migration program after the installation is complete (before you reboot). This program copies the certain settings—print setups, media sizes, preferences, and so on—from the following CreoScitex device control software to Print Console 2.1:

- Allegro Workstation 1.2

- Allegro Workstation 1.7
- Platesetter Console Software 2.0
- Trendsetter Console Software 2.0
- Print Console 1.0
- Print Console 1.1

For a comprehensive list of settings you can migrate per device control software, refer to the Print Console 2.1 Migration Guide (77-0128A-A).

Note: You can either run the Migration Utility from during the installation of Print Console 2.1, or at any point in the future from the Print Console installation program.

5.3.1 Migrating Device Control Software Settings

1. Close any running applications and open the Print Console installation program (if not already open). The Migration Welcome screen appears. Click **Next >** to proceed.

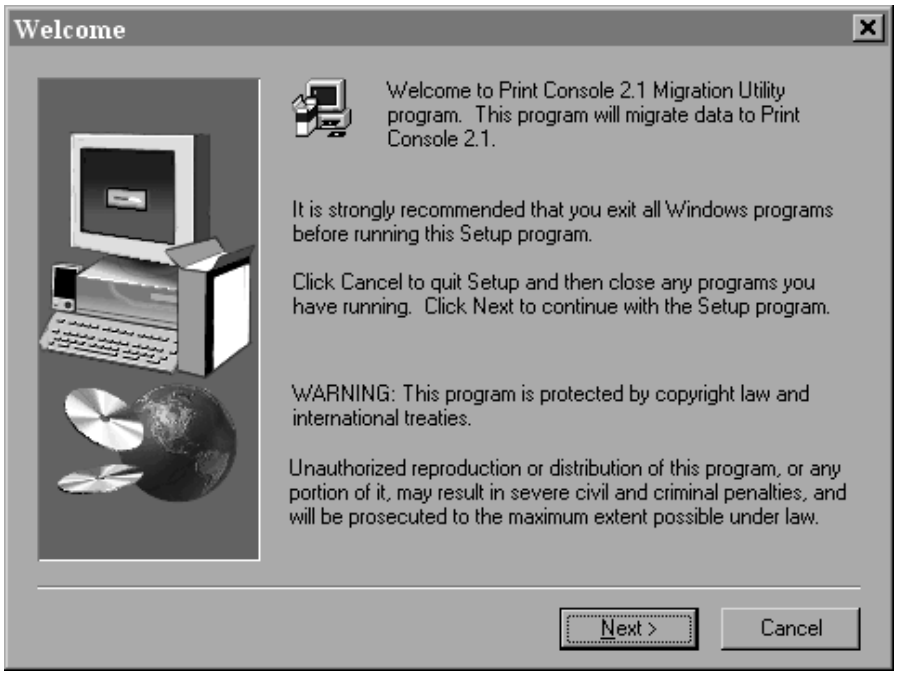


Figure 5.8

3. If the Migration Utility detects one or more CreoScitex Workstation applications, it lists them on the Select Workstation software screen (Figure 5.9). Select the appropriate software and click **Next >** to proceed.

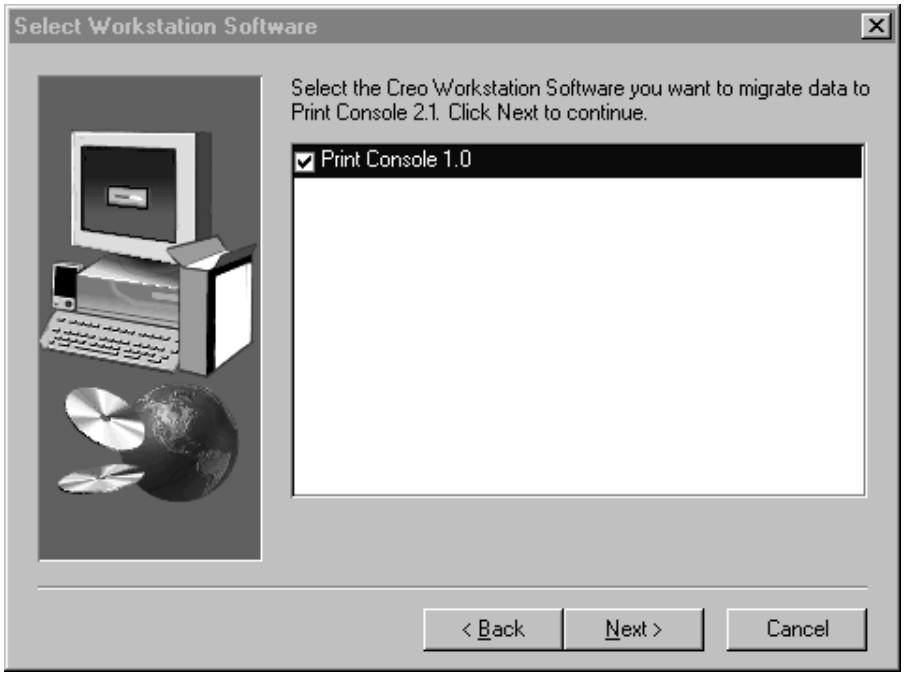


Figure 5.9

4. The Select Components screen appears with a list of settings in that software. Select the settings you want to migrate to Print Console 2.1 and click **Next >** to proceed.

   Note: The list differs depending on which workstation software your migrating from. For example, the list of settings to be migrated for Allegro 1.2 is different from that of Print Console 1.0.

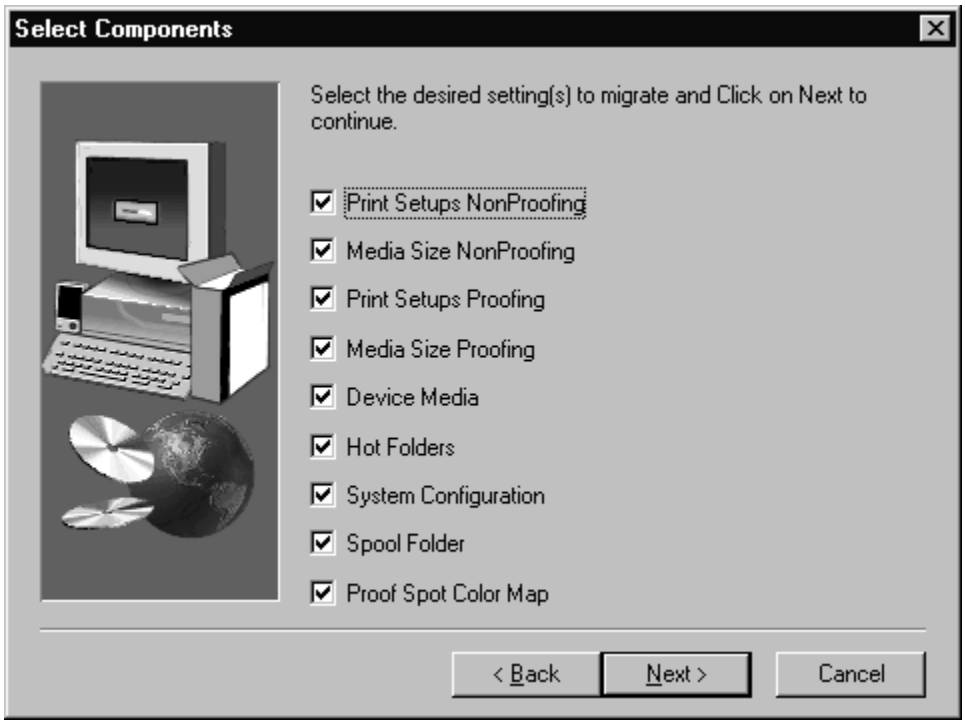


Figure 5.10

5. Confirm the settings to be migrated on the Confirm Installation screen and click **Next >** to proceed. The Migration Utility then installs these settings in Print Console 2.1.

6. Press OK when the migration is complete.

Because of functional differences between the other device control software and Print Console 2.1, certain settings from the previous device control software do not have equivalents in Print Console 2.1 and, therefore, cannot be migrated. For example, when migrating from Allegro Workstation Software 1.7, you can attach a hot folder to an output media. In Print Console 2.1, you can only attach a hot folder to a print setup. Likewise, Allegro RIP-specific imposition modifiers are available in Allegro Workstation Software, but not in Print Console 2.1. Therefore, whenever performing a migration to Print Console, check the resulting configuration carefully to ensure that all settings are appropriate to your workflow needs. Again, for a comprehensive list of which settings can be migrated from each workstation software application, refer to the Print Console 2.0 Migration Guide (77-0128A-A).

5.4 Installing Test Files

The Test Files option installs a number of test files. These are a series of simple TIFF files that you can output, using TIFF Downloader as the RIP, to ensure that the workstation and the device are communicating properly. CDs with additional, output-device-specific test files are also available.

To install the Print Console Test Files:

1. Close any running applications and open the Print Console installation program (if not already open).

2. Click the install program's **Test Files** option button.

3. The Test Files Installation dialog box appears (see Figure 5.11). Select a location for the files (the default folder is **TestFiles**) and click **Next >** to proceed (or click **Cancel** to exit the setup program).

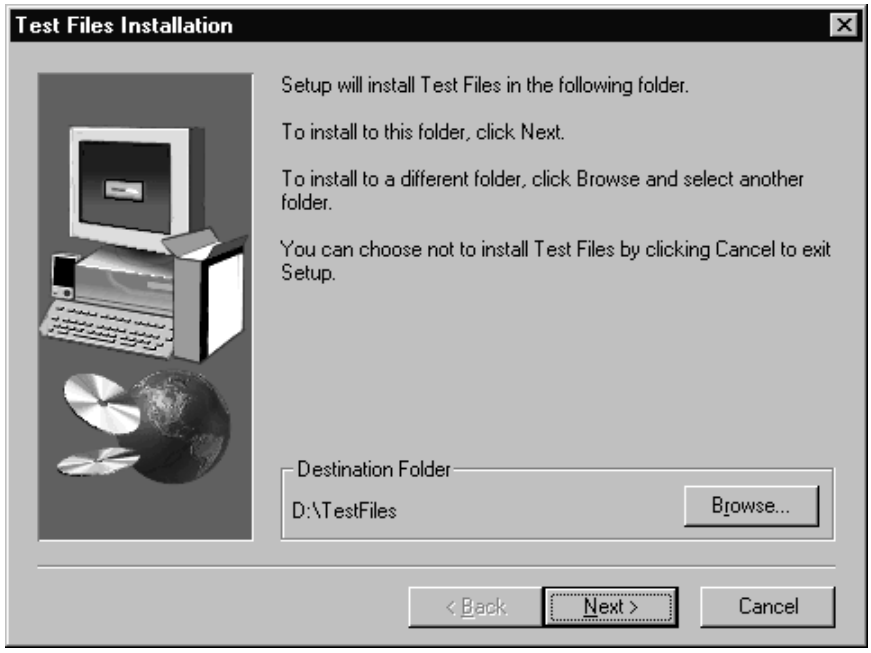


Figure 5.11

4. The Confirm Installation dialog box appears (see Figure 5.12). Click **Next >** to proceed.



Figure 5.12

5. The Test Files installation begins. When the installation is complete, a message box appears, indicating that the files installed successfully: click the **OK** button.

5.5 Installing Print Console on a System Where a Version of Workstation Software Already Exists

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

To create a virtual drive that you can install Print Console to:

1. Create a folder on the drive you wish to install to. 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.

- Save **DriveSubst.bat.** To make sure it runs each time the workstation is rebooted, move it to the Computer Management\System Information\Software Environment\Startup Programs directory. You may have to navigate to this directory via the My Computer icon on the desktop.

You can now install Print Console to the new virtual drive (V drive in this case), as described in “Installing Print Console” on page 4.

Note that when Print Console is installed on a system where a version of device control software already exists, the Auto Logon feature works a bit 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).

5.6 Upgrading an Existing Print Console 2.x Installation

5.6.1 Backing-Up Print Console Settings

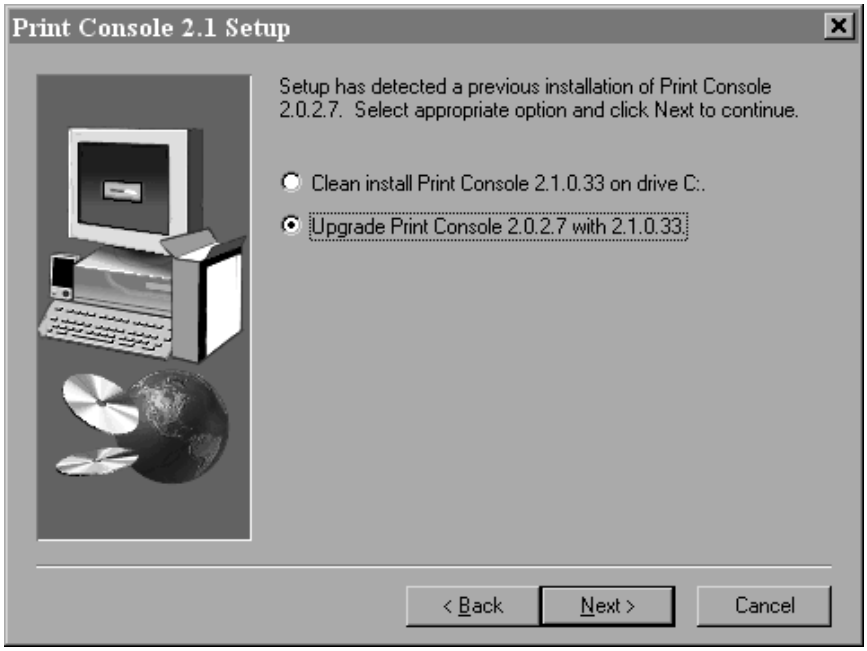
Before updating an installation of Print Console 2.x, you may use the install program's Print Console Utility option to backup the configuration settings of your present installation. If the upgrade does not work, you can restore the earlier Print Console version and settings. Settings that are backed up include print setups and input channels (the entire Print Console registry key is backed up). A copy of this utility is also installed along with the Print Console control software and accessible from the Windows Start menu in the "Print Console 2.1" program grouping.

CAUTION! Restoring from these backed-up registry settings is only guaranteed to work for the same release of the Print Console software, i.e. if you plan on backing-up, refreshing, and restoring *the same build version*. (Unfortunately there is no guarantee that the registry settings for an older build will be compatible with the registry settings of a newer build.) Therefore, if you encounter a problem upgrading to Print Console 2.1 from, for example, 2.0 (build 2.0.2.7), you would then have to reinstall build 2.0.2.7 before restoring from the backup. To backup the Print Console registry settings:

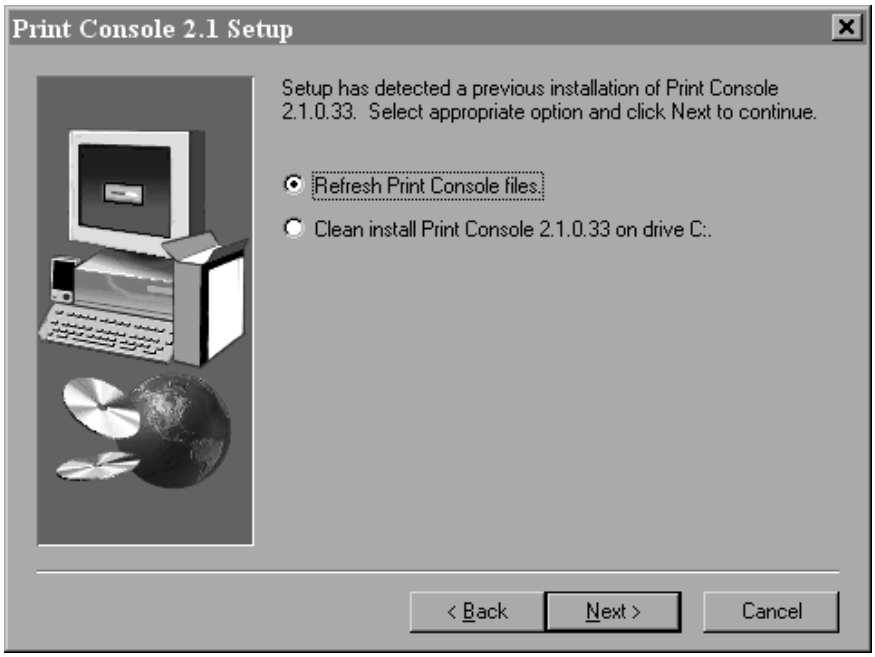
1. Click on the install program's **Print Console Utility** button, or launch the utility by going to Start -> Programs -> Print Console 2.1 and choosing Print Console Utility.
2. Choose "Save Print Console settings" and click **Next >** to proceed.
3. Enter the path and registry filename you want to save to (the default is **backup\PC2.1_M_D_YYYY.reg**, where M is the month, D is the day, and YYYY is the year). Click **Next >** to proceed.
4. The backup process begins. When it is complete, a message box appears, indicating that the Print Console settings were saved successfully: click the **OK** button.

5.6.2 Upgrading Print Console

When run, the Print Console installation program automatically detects an existing Print Console installation; it provides 2 of the 3 possible update/upgrade options, depending on the state of the workstation:



...or:



- **Refresh Print Console files** refreshes the Print Console executables and DLLs. This option is only available when installing the same build number/version of the software.
- **Clean install of Print Console 2.1 in the same location** automatically prompts you to backup the existing installation of Print Console, the existing version is uninstalled,

then a new, clean installation of the Print Console software is created in the same location as the original install.

- **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've selected. If you have changed a file in one of these directories, you can restore it from your backup after installing the newer build. This option is only available when installing a newer version than what already exists on the workstation. The program will *not* overwrite an installation of a newer build.

To upgrade/refresh a Print Console installation:

1. Close any running applications, and open the Print Console installation program (if not already open).

   Note: When installing Print Console or selecting a different device, make sure to shut down Launch Service Host and restart it after install is complete.

2. Click the **Print Console** option button.

3. Select one of the 2 install options and then follow the onscreen prompts.

   Note: If you choose "Clean install of Print Console 2.1 on drive C:", you will be prompted to backup the software configuration settings from the previous installation. This is optional, and is similar to the process described in "Backing-Up Print Console Settings" on page 17. However, there are a couple of differences: the Print Console registry key is automatically saved as **printconsole.reg** in the backup directory that you specify; the **creosupt**, **pdf**, **printconsole**, and **service** folders from the original Print Console installation are copied to the backup directory that you specify.

   Note: Before upgrading, make sure that the Launch Service Host window application is shut down. Service Host is an application installed with Print Console 2.1 that tracks communication between Print Console and binary-based devices.

   In addition, if the previous version of Print Console does not include Service Host, Print Console will not know how to set the diagnostic port. As a result, it defaults the diagnostic port to COM1. If this is not correct, run the Select Device option from the Print Console installation program to manually configure the port.

   CAUTION! Restoring the registry settings is only guaranteed to work for *the same build* of the Print Console software.

4. Open **printconsole/bin/begin.inf** and **printconsole/bin/begin.dat** and ensure that the TIFF Downloader lines in each file are as follows:

```
# the following lines should be uncommented to start the tiff
downloader

#"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib7"
/unique /noconsole /min /exit 0 /restartdelay 10
```

...if you *do not* want the TIFF Downloader enabled.

If you *want* the TIFF Downloader to be enabled, uncomment the line:

```
# the following lines should be uncommented to start the tiff
downloader

"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib7" /unique
/noconsole /min /exit 0 /restartdelay 10
```

For more information about the TIFF Downloader, refer to "Configuring TIFF Downloader" on page 29.

5.6.3 Restoring Print Console Settings

After updating *the same build* of Print Console software you can use the Print Console Utility to restore the previous configuration/settings (*if* you backed them up), which will save you from having to go back and completely reconfigure Print Console.

CAUTION! Restoring the registry settings is only guaranteed to work for *the same build* of the Print Console software.

To restore these settings:

1. Exit the Print Console software if it is running. (If you were to attempt to restore these settings while Print Console was running, everything would appear to work but no changes would be made to the registry.)
2. Start the Print Console install program and click the **Print Console Utility** button, or launch this utility by going to Start -> Programs -> Print Console 2.1 and choosing Print Console Utility.
3. Choose "Restore Print Console settings" and click **Next >** to proceed.
4. Enter the path and registry filename you want to restore from (the default backup file is **backup\PC21_M_D_YYYY.reg**, where M is the month, D is the day, and YYYY is the year). Click **Next >** to proceed.
5. Confirm (or cancel) your choice.
6. If you choose to proceed, the registry restoration process will begin. When it is complete, a message box appears, indicating that the Print Console settings were restored successfully: click the **OK** button.

5.7 Uninstalling Print Console

An uninstall script is included as part of the Print Console installation.

To uninstall Print Console,

1. Go to Start -> Settings -> Control Panel and double-click on Add/Remove Programs.
2. Select Print Console 2.1 from the list of installed components, click the **Add/Remove** button, and follow the on-screen instructions.

Note: *Do not* delete the **uninst.isu** file found in the **PrintConsole\bin** folder, as it is required (not only) by the uninstall script.

6. CONFIGURATION

The Print Console installation program will configure most of what is needed for you to start using the software; however, there are some minimum settings that must be made via the UI so that Print Console is able to process files via the **Job** menu's **Submit File** option.

To configure Print Console so that you can process a 4-up proof test file using the **Job** menu's **Submit File** option, refer to the following sections. These sections, however, are provided as general examples only. For more detailed information on configuring Print Console, refer to the Print Console online help, or to the appropriate workflow-specific Technical Bulletin.

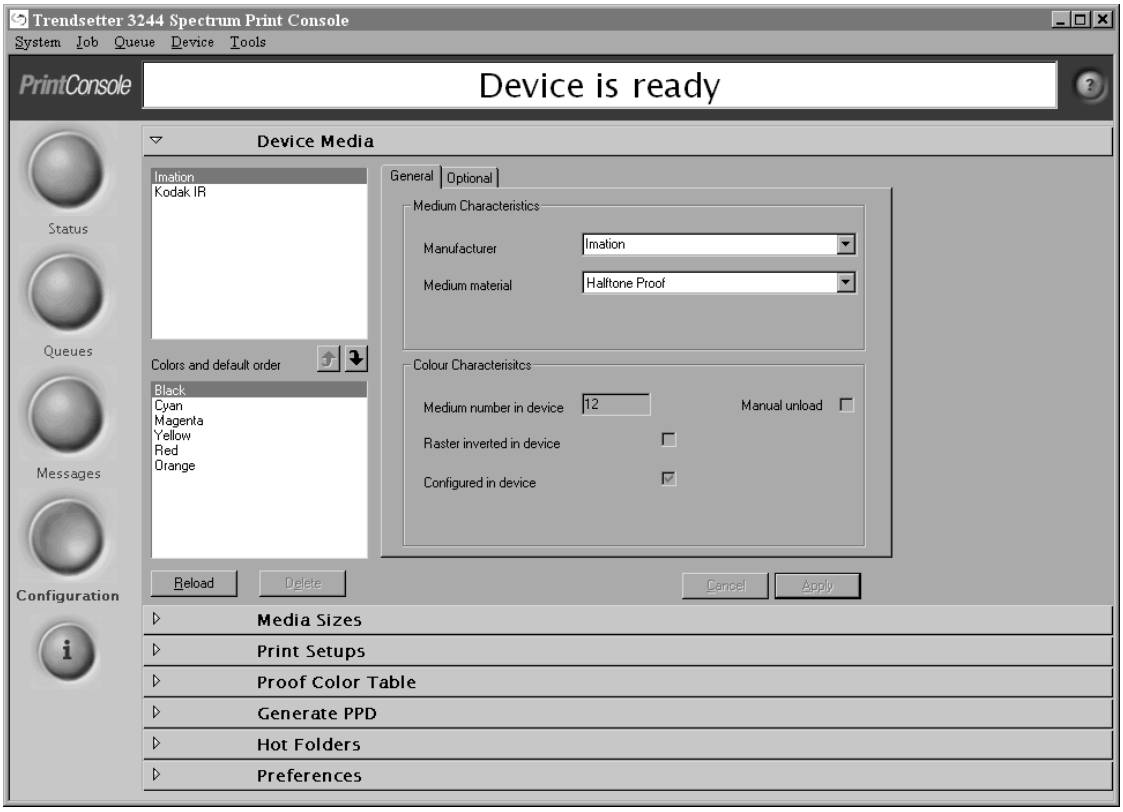
Note: Choosing the installation program's Configure Software option merely allows you install/configure the features from section 5.1.1, step 7 (see page 8).

6.1 Configuring Device Media

Verify that Print Console recognizes the device media settings from the output device.

1. Start the Print Console software (if it is not already running).
2. Open the Device Media pane (press the **Configuration** button, and then select **Device Media** option) and verify that the expected device media characteristics are displayed. (These values are read from the output device firmware and stored in the Print Console workstation's registry.)

Device media characteristics for Imation halftone proof media appear as follows (note that the screen shot below shows the list of device media from the Trendsetter Spectrum simulator software; the list you would see for an actual output device may be different:

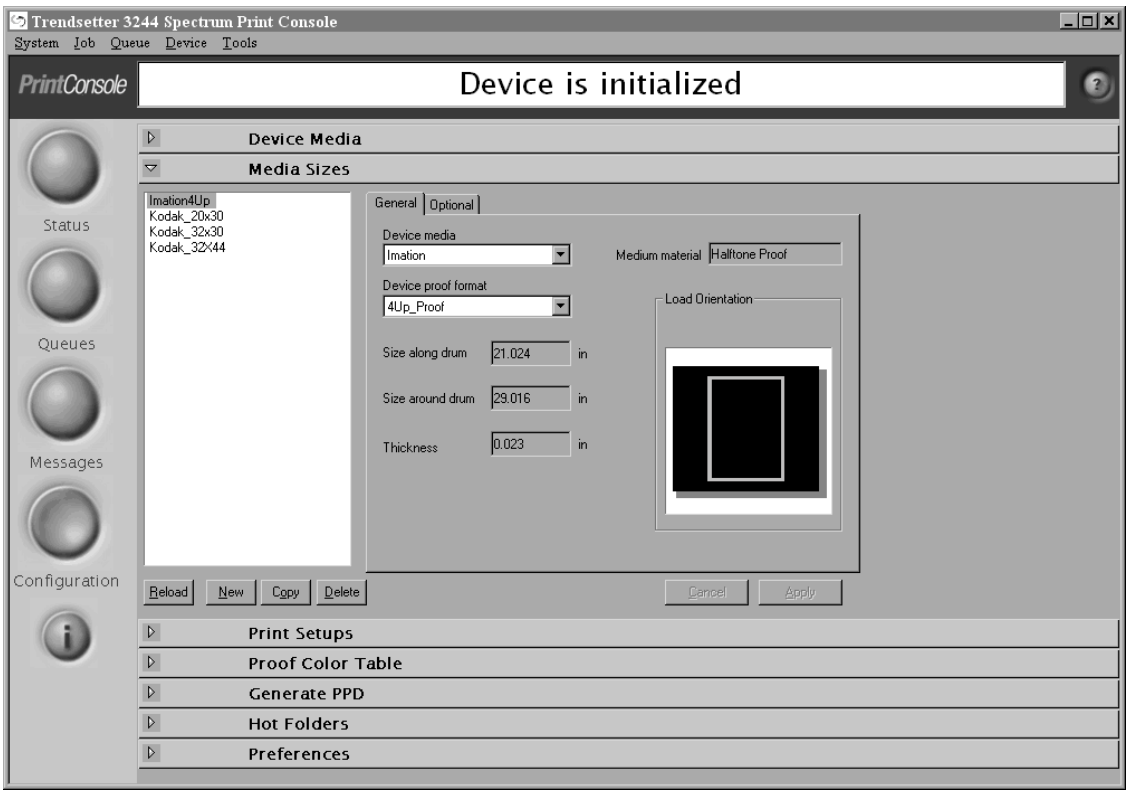


Note: The Imation-recommended order for color separations is now K, C, M, Y.

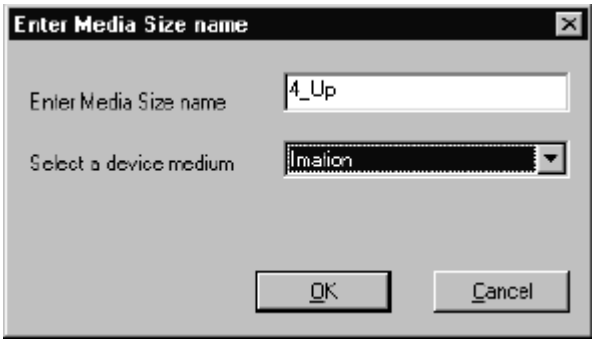
This change can be made in 2 different places. If the change is made here, via Print Console's Device Media pane, this separation order becomes the default order that appears in the second place that this change can be made, Print Console's Print Setups pane.

6.2 Configuring Media Sizes

1. Open the Media Sizes pane (press **Configuration** button, and then choose **Media Sizes** pane). Note that there are no default media size names installed with Print Console: *device media* values are read from the output device firmware (and stored in the Print Console workstation's registry); these device media are used when creating Print Console media size names.



2. Click the **New** button to create a new media size name; the Enter Media Size name dialog box appears:



Enter a medium size name (use "4_Up"), select a device medium from the drop-down list (choose Imation media), and click the **OK** button. Note that the name of the medium size cannot be the same as the name of any print setup.

3. Select the appropriate device proof format from the Device Proof Format drop-down list (“4Up_Proof” in this case). The media dimensions are read-only.

4. Click the **Apply** button.

5. Repeat steps 1-4 for all other media sizes you would like to configure.

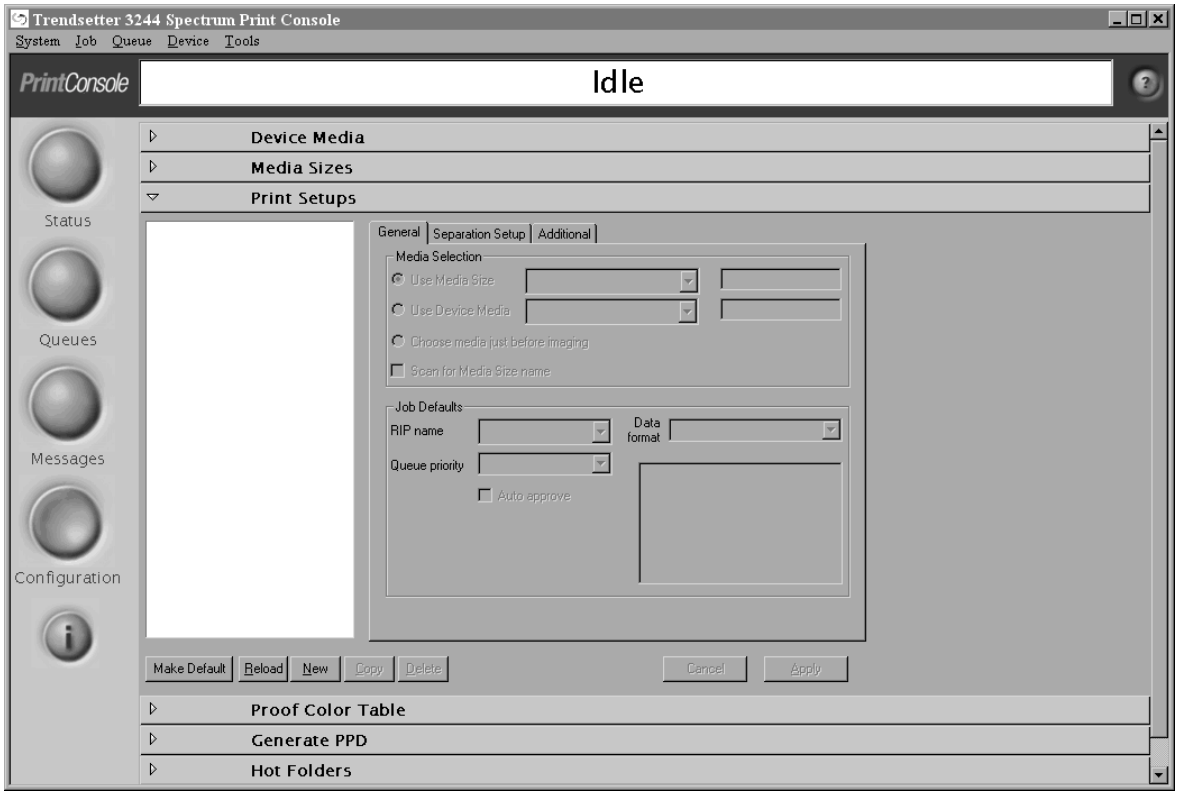
CAUTION! If the device medium is a plate, be sure to enter the correct thickness value.

Note: Previous versions of output device control software (i.e. Allegro and Platesetter Workstation software) used a factor of 25.402 to convert inches to millimeters. The correct value, though, is 25.4, which Print Console uses for the conversion. Due to rounding effects, Print Console PPD files may reflect a 1-point difference in media sizes. If you use Print Console’s equivalent of the plate-matching feature in Workstation Software, the matching tolerance should be adjusted to take this difference into account.

6.3 Configuring Print Setups

If you did not migrate print setups from existing workstation software, you will have to create your own.

1. Open the Configure Print Setups dialog box (**Configuration** button, **Print Setups** pane).



2. With the General tab selected:

a). Create a new print setup by clicking the **New** button.

b). In the **Enter Print Setup Name** dialog box, type a name for the print setup (PSforTIFFs, for example), and click the **OK** button. Note that the name of the print setup cannot be the same as any media size name.

c). Select either the appropriate media size name *or* the appropriate device media. If it's a Thermoflex device and you want to use dynamically sized media, select the "Choose media just before imaging" option.

d). Enable or disable the Scan for Media Size name option.

e). Select a RIP (TIFF Downloader in this case).

f). Select a Queue Priority.

g). Select a Data Format (TIFF in this case).

3. (The need for this step is rare and depends on the workflow: you do not have to worry about this for a separation-based workflow, which includes a TIFF-based workflow, or for a GDAPI workflow. Consult the workflow-specific documentation to determine the necessity of this step)

   Change the imaging order of the color separations. With the Separation Setup tab selected:

   a). Press the **Add Process** button.

   b). Reorder the separations so that Black is first (i.e. at the top) by selecting the Black separation row and pressing the **up arrow** button three times.

   Note: This may be required due to a recent change to the Imation-recommended imaging order of color separations. The required order is now K, C, M, Y.

4. Select any appropriate options available via the Print Setups pane's RIP-specific tab (TIFF Downloader in this case, which allows a number of configuration options, such as mirroring, rotation, cropping, and so on. For information about these TIFF Downloader options, refer to the "Configuring TIFF Downloader" section, which starts on page 29).

5. Set the new print setup to be the default by right-clicking on the print setup name and left-clicking on the **Default Print Setup** popup button:



   ...or by clicking the **Make Default** button in the lower-right corner of the Print Setups dialog box.

6. Click the Print Setups pane's **OK** button to save the new, default print setup.

6.4 Configuring Direct Connections

6.4.1 Installing the Brisque Agent

In order to connect a Brisque (version 4.0) to Print Console, you must install the Brisque Agent, a small program provided on the Print Console 2.1 CD that enables the GDAPI (Generic Device Application Programming Interface) between the two applications.

When installing this program, remember to install the Brisque Agent…

- On the *same* workstation as Print Console.
- *After* installing Print Console

If you are upgrading to a newer version of the Brisque Agent, either

- Remove the old version from the workstation
- Rename the old version of Brisque Agent to brisqueagent.bat.old. This creates a back up of the old file.

For more information on connecting the Brisque to a Trendsetter, refer to the Brisque to Trendsetter Spectrum Connectivity technical bulletin.

To install the Brisque Agent on the Print Console workstation:

1. Shut down all applications, including Print Console
2. From the Print Console CD, double-click on the setup.exe file in the BrisqueAgent directory (**\BrisqueAgent\setup.exe**).
3. The Welcome dialog box appears (see Figure 6.1). Click **Next >** to proceed (or click **Cancel** to exit the setup program).



Figure 6.1

4. The BrisqueAgent Setup dialog box appears (see Figure 6.2). Click **Next >** to proceed.



Figure 6.2

5. When the Brisque Agent files are installed, click **Finish**, exit the installation and restart the computer.

7. Once the computer has re-booted, open the **printconsole\bin\begin.inf** file and ensure the TIFF Downloader lines are commented out, which means each line starts with the pound (#) symbol, as follows:

```
# the following lines should be uncommented to start the tiff
downloader
#"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib7"
/unique /noconsole /min /exit 0 /restartdelay 10
```

8. In the same file, ensure the Brisque Agent line is uncommented (remove the # symbol), and add "brisqueagent.bat" on a new line, as follows:

```
# the following lines should be uncommented to start Brisque
Agent
\BrisqueAgent\version\progs\pltGdapiServ.exe /unique /noconsole
/exit 0 /quit /restartdelay 10
brisque.bat
```

9. Save and close the **begin.inf** file.

10. Copy the **brisqueagent.bat** file from the **BrisqueAgent** directory on the Print Console CD to the **PrintConsole\bin** directory.

    Note: If you cannot find the **brisqueagent.bat** file in the **BrisqueAgent** directory, it may be in the **BrisqueAgent\scripts** directory).

11. Open the **brisqueagent.bat** file and ensure the com port is the same as the com port that the Trendsetter diagnostic cable is connected to. If not, change the com port number in the file to the correct one. Save and close the file.

12. To ensure the connection has initialized, start Print Console and click the RIP button on the Status screen. If CreoScitex Expose appears in the list with a green light beside it, it is registered and ready to submit jobs.

Note: The Brisque Agent takes about 30 seconds to initialize.

Refer to the Brisque-to-Trendsetter Spectrum Connectivity document for complete information about connecting a Brisque to a Trendsetter.

6.4.2 Licensing Direct Connections

This step is only necessary if connecting a 3rd party RIP directly to Print Console via the GDAPI (Generic Device Application Programming Interface). It is not necessary for Prinergy, Brisque, or TIFF Downloader connectivity. For TIFF Downloader licensing information, see the TIFF Downloader Licensing section on page 30.

Enter the Direct Connection license key via the Licenses tab in the Preferences pane (**Configuration** button, **Preferences** pane, **Licenses** tab):

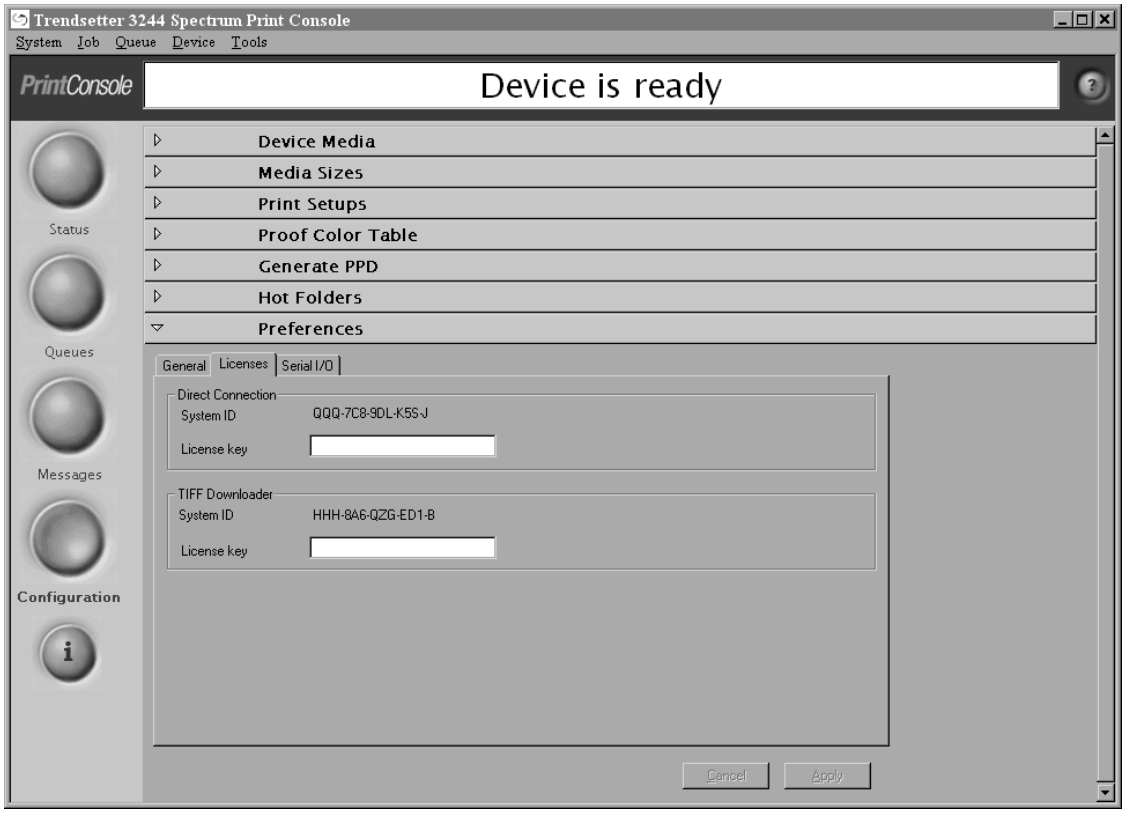


Figure 6.3

6.5 Configuring TIFF Downloader

Systems submitting one-bit TIFF files to the device via Print Console must enable, license, and correctly configure the TIFF Downloader 2.3. The TIFF Downloader is a tool that opens TIFF files and outputs the raster to the output device as commanded by Print Console. The following sections describe some of the basic TIFF Downloader configurations. For a comprehensive description, please refer to the TIFF Downloader sections of the online help.

6.5.1 TIFF Downloader Overview

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

```
"tiffdownloader /testscsi /auxthreads4 /sws1048576 /tib7" /unique
/noconsole /min /exit 0 /restartdelay 10
```

Parameters are as follows:

- /le<float>—no longer valid in the command line; now specified in the Device Margins menu in the Service pane
- /te<float>—no longer valid in the command line; now specified in the Device Margins menu in the Service pane
- /transform—no longer valid in the command line; see the Orientation section of the Tiff Downloader tab in the Print Setup pane
- /ib<int>—force input buffer size in MB
- /tib<int>—input buffer size in MB when rotating. Set to /tib7 by default. Increase buffer size if encountering problems transforming files. Be aware that if there is not enough memory on the system to begin with, increasing the buffer size will not help.
- /ob<int>—no longer valid
- /inbuffers<int>—specify the number of input buffer per image, defaults to 2
- /scsibuffers<int>—specify the number of output buffers, defaults to 2
- /clipbuffers<int>—specify the number of intermediate buffers, defaults to 2
- /noxymatch—obsolete: X & Y resolutions do not have to match by default now
- /originalg4—use fixed version of original libtiff G4 decoder
- /bitmap—write output to a bitmap file instead of SCSI port (for testing)
- /regver2.0—enables the Tiff Downloader to work with Print Console 2.0.x
- /regver1.0—obsolete
- /tiff—write output to tiff file instead of SCSI port (for testing); default compression is G4. See also, /outnc and /outzip.
- /simscsi—do not output to SCSI port, delay approx. transfer time (for testing)

- /testscsi— test SCSI connection between TIFF Downloader and device on start-up. The startup test is disabled by default.
- /auxthreads<n>—run more than one input thread per file, where <n> represents the number of auxiliary threads to spawn depending on the number of CPUs in a system (set by default). While multi-threads speeds up throughput, it can also negatively impact the performance of other applications running on the same workstation.
- /sws<size in bytes>—size of the output image data blocks sent to the SCSI port (set to /sws1048576). Set to multiples of multiples of 64K. While this command line speeds up throughput, it can also negatively impact the performance of other applications running on the same workstation.
- /outzip—if /tiff is enabled, specifies that the output Tiff file compression scheme should be Zip (i.e. Flate or Zlib).
- /outnc—if /tiff is enabled, specifies that the output Tiff file should not be compressed

Many of these command line switches are not normally used; however, 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 the /tib<n> command, or if you are having problems with retraces, you may want to do the same to the /sws<n> command.

6.5.2 Licensing

The TIFF Downloader requires a license key. To obtain the license key, send an email to LicenseKey@creoscitex.com that includes the customer name, workstation number, and the TIFF system ID number (**Configuration** screen, **Preferences** pane). Enter the license key in the same dialog box where you found the TIFF system ID number.

Note: It may take as much as a day to obtain an license key this way. If urgent, contact Workflow Production directly.

If the license key is not entered, a one-inch by five-inch “Creo Diagnostic Tool” label will be superimposed (up to 3 times, depending on the media size) across the top of the imaged output media. Once entered, the license key will take effect on the next image.

6.5.3 Compression

TIFF Downloader includes improved (optimized) G4 decompression, and imaging times for files compressed with G4 now match those compressed with LZW. The switch for including the optimized G4 decompression feature is **/dhg4**, but is not necessary since G4 compression is now the default. The TIFF Downloader can also decompress Flate or Zip files, and LZW files.

It is recommended that all image files be compressed, and at this time G4 compression is recommended whenever possible. Unfortunately, some types of files, like those with stochastic screening, may not compress properly with the current G4 compression scheme, in which case an alternative compression method will have to be used. An alternate G4 decoder can be enabled from the **begin.inf** file command line with the “/originalg4” switch (do not include the extra quotes in command line):

```
"tiffdownloader /testscsi /originalg4 /auxthreads4 /tib7 /sws1048576
/regver2.0" /unique /noconsole /min /exit 0 /restartdelay 10
```

If the new G4 decoder cannot process a particular file, this alternate decoder may be able to.

Note that the TIFF Downloader cannot process any file that is larger than 4GB. However, the uncompressed image size *can* be larger than 4GB, therefore, large images (like larger VLF images) *must* be compressed.

6.5.4 ThermoFlex Digital Masking

TIFF Downloader 2.3 supports ThermoFlex "digital masking" mode (previously called "tinting") for certain media via the Print Console software, although this option is not available to regular users/operators. Digital masking is selected for a device media by first selecting the media via the Digital masking tab in the **Service** pane's **Configure System** dialog box, and then selecting the Digital Masking Scheme in the Device Media pane (the Digital Masking Scheme box only appears once the media is correctly set up in the Digital Masking tab). Tinting (Digital Masking) schemes must be entered directly in **TintingSchemes** under the **PrintConsole\Vx.x** registry key.

Digital Masking will significantly increase the amount of processor time required by the TIFF Downloader. A single processor can tint a typical file at a rate that is barely fast enough to keep up with the output device. A dual-processor machine will perform much better because the tinting algorithm is executed in a thread separate from the main TIFF Downloader threads.

Note that if the TIFF Downloader detects an error with the any of the tint parameters, the image will fail and a message that begins with "Tinting Library Error…" will be displayed in the Print Console History window. This message *should* contain enough information to fix the problem.

6.5.5 Image Mirroring and Rotation

TIFF Downloader 2.3 supports two forms of mirroring (around and along the drum axis), which 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 via 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, which can be useful if the image has not been pre-rotated by the RIP, with little or no noticeable performance degradation. Stripped files, though, will take longer since they must first be re-written 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 2 to 5 minutes for a gigabyte image (i.e. 32"x44" at 2400 dpi). If possible, the temporary file is 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.

The following shows how to configure the TIFF Downloader to write the temporary file to a different drive for better performance:

1. Open the TIFF Downloader key in the registry: **HKEY_LOCAL_MACHINE\SOFTWARE\Creo\PrintConsole\v2.0\TiffDownloader**.
2. Add a new string value (right-click the **TIFFDownloader** key and select **New** > **String Value**).
3. Name the new key "**TransformTempFolder**".
4. Double-click **TransformTempFolder**. In the **Edit String** dialog box, enter the path to the temporary file, for example "**e:\TDLTemp**". Make sure this temporary directory is not on the same drive as the Spool drive.

6.5.6 Image Clipping/Margins

TIFF Downloader 2.3 supports clipping of all four sides of output media via the Print Console software, although this option is not available to regular users/operators. These clippings can be entered for each device media via the Material Margins tab in the **Service pane's Configure System** option.

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

Without the **Center Image** options 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 it extends into these regions on the plate.

For example, assume the following material margins are set:

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

If the 32" by 44" version of a file is to be imaged on a 32" by 44" plate, all margins would be applied and the TIFF Downloader would output an image that is 31.45" by 43.8". If this same file were to be imaged on a 22" by 33" plate, the TIFF Downloader would produce a 21.45" by 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 transformation). 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 115mils 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 (i.e. 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.

6.7 Configuring Animation Settings

You have the option of turning the animation on or off, or setting it to Single-Frame mode. Select Print Console's **Configuration** button and choose the **Preferences** pane. In the Preferences tab, select Single-Frame, Off, or Full in the **Animations** drop-down list.

6.8 Other Configurations

6.8.1 Configuring New Users for Print Console

When you install Print Console 2.1, the installation automatically creates a default user name called PCOperator with given set of permissions. If you enable the auto-logon option during the installation, the system automatically logs in as PCOperator and the application 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 enough permissions 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 fix this problem, add the "Increase Scheduling Priority" permission to any user names that log into Print Console:

1. From the **Control Panel**, select **Administrative Tools** and then **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. Right-click it.
4. Select **Security**, and then **Add**. Scroll down to find the account name that Print Console is started from (normally PCOperator). Select it.
5. Choose **Add**, and then select **OK**.

6.8.2 Specific Configurations

For more detailed information about configuring Print Console, refer to the Print Console Online Help system.