Splash DC Series v4.0 Reference

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Splash Technology, Inc.

Sunnyvale, California USA

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EN55022/CSPR22   CLASS B
EN0082-1/IEC 801-2,3,4

following the provisions of:

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Splash Technology, Inc. 555 Del Rey Avenue, Sunnyvale, CA. 94086 USA

The signed and dated Declaration of Conformance is on file at the above address.

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Setting Up Network Printing to Splash

The Splash DC Series Server makes it easy for clients on a TCP/IP or Novell NetWare network to print to the Xerox or Fuji Xerox copier. No AppleTalk bridge software is needed.

For IPX printing from Novell NetWare, Splash creates a native Novell IPX connection from the Splash Server to the Novell server. NetWare Direct delivers print jobs from a print queue on the Novell NetWare server to the Splash Server for processing. Once NetWare Direct is set up and activated, it operates automatically on the Splash Server each time a Novell client prints to the designated queue on the Novell server. Splash NetWare Direct is simple to set up and supports all Novell Ethernet frame types.

When TCP/IP Direct is enabled at the Splash Server, the server becomes a network printer. Splash accepts LPR/LPD print jobs and jobs from TCP/IP print queues set up on Windows NT or Novell NetWare servers. In addition, clients on a TCP/IP network can send TIFF, EPS, PDF, and text based PostScript files to the Splash Server for printing.

All software needed for both TCP/IP and IPX printing is automatically installed when you install the Splash Server software (pre-installed on Splash DC Servers). The Enterprise Networking software includes one control panel and four system extension files, which are automatically installed in the Mac OS System Folder during Splash installation.

Setting Up TCP/IP Direct Printing to Splash

This section describes how to set up the Splash Server to receive print jobs from clients on a TCP/IP network. To do this you need to connect the Splash Server to the TCP/IP network using the appropriate network cable, and set up the TCP/IP control panel. You can then enable TCP/IP print services in the Splash Server application preferences.

Note: TCP/IP, IPX, and AppleTalk networking can all run simultaneously on the same cable, or on different cables. For example, you can run AppleTalk networking on Ethernet and IPX networking on TokenRing at the same time.

Configuring the TCP/IP Control Panel

Use the TCP/IP control panel to set up an Internet address for the Splash Server. You will need to assign the Splash Server a static Internet address so clients can reliably locate the Splash Server on the network. (A static IP address is required if you set up the server to use the Splash Web Queue Manager option.)

Before you begin, you need to have all address information available. Obtain a static Internet address (and subnet mask number if needed) and name server address from your network administrator.

To set up an Internet address for the Splash Server:

1. At the Splash Server, point to Control Panels in the Apple menu, then select TCP/IP in the submenu.

The TCP/IP control panel appears.

2. Choose the network connection type for the Splash Server's TCP/IP network in the **Connect via** menu.

3. Select "Manually" in the **Configure** menu.

4. Enter the **IP Address** for the Splash Server.

5. Enter a **Subnet mask** number if needed. A subnet mask provides additional address information for some networks.

6. Enter the **Router address** if needed. A network router maintains a list of IP addresses for two or more groups of network devices. The router then uses the list of addresses to direct network data to the appropriate location on the network. To enter two or more router addresses, press the Return key after you enter each address.

7. Enter a **Name server address** for the DNS server on your network (for example, design.corp.com).

8. When you have finished entering network information, close the TCP/IP control panel. A dialog box asks you to confirm the new setup. Click OK. You are ready to enable TCP/IP printing for the Splash Server.

Enabling TCP/IP Printing at the Splash Server

After you set up the TCP/IP control panel, you can enable TCP/IP direct printing in the Splash Server application. To do this:

1. Start the Splash Server application.

2. Choose Enterprise Networking from the Server menu. The TCP/IP Direct window appears.
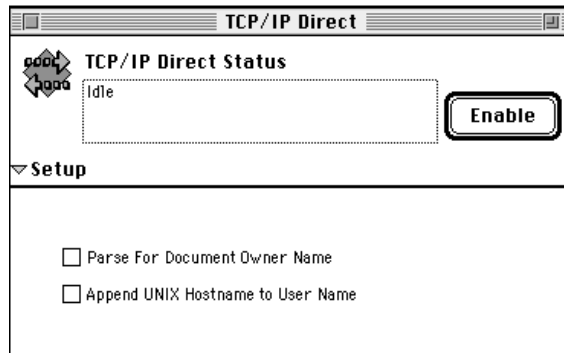
Note: The NetWare Direct window appears also when you choose Enterprise Networking. For information about how to use the NetWare Direct window to set up Splash for IPX printing, see page 24.

3. Click **Enable**.

4. Click on the Splash Server window to bring the Splash Server application to the foreground.

5. Choose **Preferences** from the Server menu. The Splash Server Preferences appear.

6. Click Network at the top of the window to see Splash Network preferences.
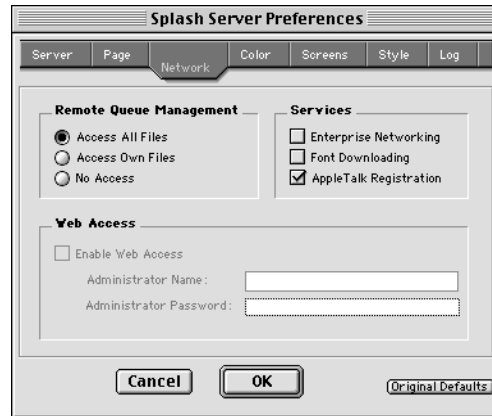
7. Select the Enterprise Networking checkbox, then click OK.

Splash is ready to receive network print jobs from TCP/IP clients.

Setting TCP/IP Direct Options

You can select the following options in the TCP/IP Direct window.

Note: These options are unavailable when TCP/IP is enabled. To change an option, first click Disable.

■ **Parse For Document Owner Name**
   When selected, the Document Owner name is extracted from each print job as it is received at the Splash Server. When this option is not selected, Enterprise Networking determines the user name from the network connection.

■ **Append UNIX Hostname to User Name**
   When selected, the network host name is added to the print job's owner name that appears in the print queue and job log at the Splash Server. For example, when the user "Diane" prints from the UNIX host "Santana" the print job's owner name is "Diane@Santana." When this option is not selected, the print job's owner name is "Diane." For most situations, do not select this option.

   Note: This option is useful for UNIX environments where all users share the same username, such as "root."

Restricting TCP/IP Printing to Specific Machines

The Splash Server can be set up to accept TCP/IP print jobs from only the machines you specify in the "Hosts.LPD" file. This file is located in the Extras folder within the Splash Folder on the Splash Server. You can edit the Hosts.LPD file with any text editor (such as SimpleText) to enable TCP/IP printing from only specific host names, IP addresses, or ranges of IP addresses. This allows print access control at the individual, group, and subnet levels. Specific examples of how to set up host names are provided in the Hosts.LPD file on the Splash Server.

Setting Up a Novell Server Print Queue

This section describes how to set up a print queue on a Novell NetWare server for printing to Splash using TCP/IP. The PCONSOLE Quick Setup option creates a print queue object, a printer object, and a print server if one does not exist.
To set up a Novell NetWare print queue:

1. From a workstation, log in to the server as a user with sufficient privileges to create a print queue (Admin or Supervisor).

2. From the client workstation, run PCONSOLE.EXE in SYS:PUBLIC (D:\PUBLIC).

   Note: The root directory name or drive may be different for your computer.

3. Select "Quick Setup." PCONSOLE prompts you for information about the print queue.

4. Enter a Print Server name if prompted for one.

5. Enter Print Queue and Printer names.

6. Specify the print Queue volume.

7. Choose the banner type ("No banner" is the recommended setting).

8. Be sure to set the Printer Type field to "UNIX printer." This causes the host name and printer name fields to appear.

9. Enter the Host Name for the Splash Server (the name server address specified in the TCP/IP control panel at the Splash Server) or the static IP address for the server.

10. Enter the Printer Name "SplashLPD" when prompted.

11. Press Enter to complete setup. PCONSOLE prompts you to save the new print queue settings. Choose Yes.

Novell NetWare print queue setup for the Splash Server is complete.

Setting Up a Windows NT Server Print Queue for Splash

This section describes how to set up a TCP/IP print queue for Splash on a computer running Microsoft Windows NT (4.0 or later). You can set up the Splash print queue on either a Windows NT Server or a Windows NT Workstation system.

After the Splash TCP/IP print queue setup is complete, it becomes easy for other Windows NT and Windows 95/98 clients on the network to use the print queue to send jobs to Splash.

Note: You must set up and enable TCP/IP Direct at the Splash Server before you can set up an LPR print queue for Splash on Windows NT. Windows NT will report an error during print queue setup if the Splash Server is not identified as an LPD server on the network.

Enabling the Microsoft TCP/IP Print Service

Before you can connect to the Splash Server for printing over TCP/IP, you must first enable TCP/IP print services in the Network control panel. To do this:

1. Click the Start button, point to Settings, then choose Control Panel.

2. Double-click the Network control panel to open it.
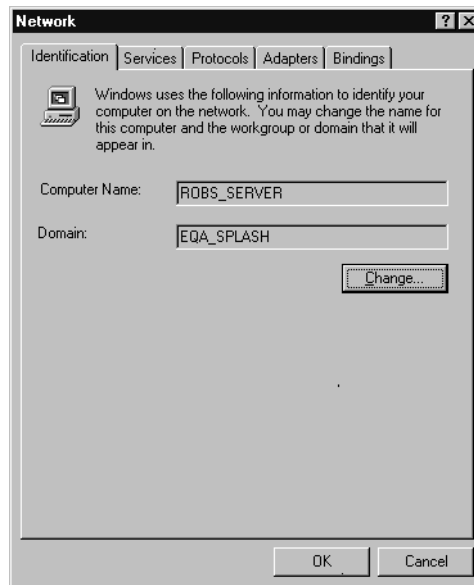
3. Click the Services tab.
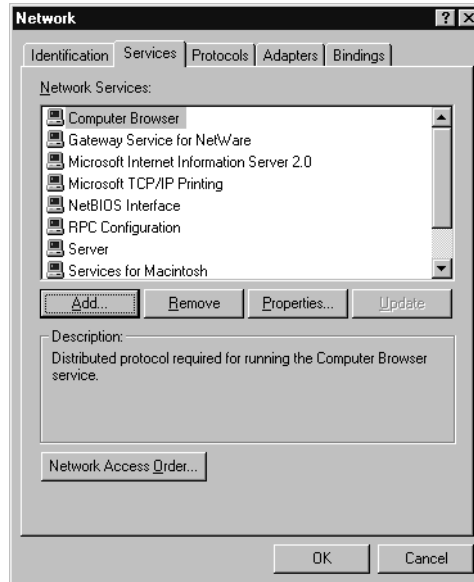
If "Microsoft TCP/IP Printing" appears in the Network Services list, this service is already enabled. Close the Network control panel, then go on to "Setting Up the Splash Server TCP/IP Print Queue" on page 17.

If this service does not appear, you must add it to the list of network services.

4. Click Add. A list of the network services you can add appears.
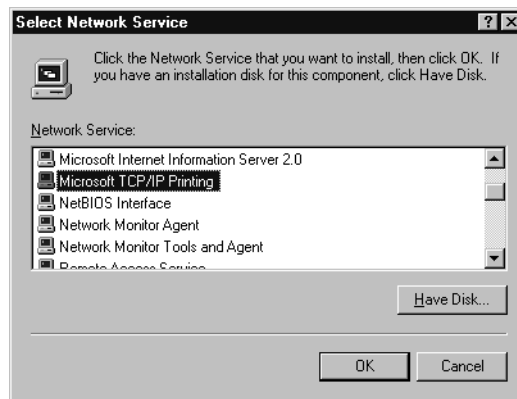
5. Select "Microsoft TCP/IP Printing" in the Network Service list, then click OK.

Windows NT displays a message. Windows NT must copy files needed to set up TCP/IP printing from the Windows NT system CD-ROM.

```
Windows NT Setup                                              [X]
    🖳   Setup needs to copy some Windows NT files.           [ Continue ]
        Setup will look for the files in the location specified below.
        If you want Setup to look in a different place, type the    [ Cancel ]
        new location. When the location is correct, click
        Continue.

        [ A:\                                                    ]
```
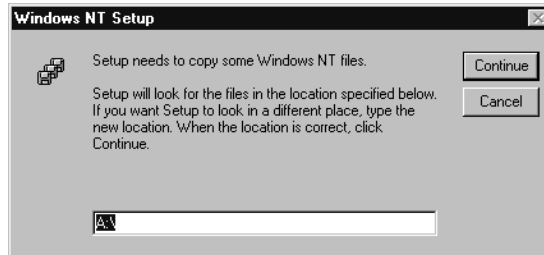
6. Enter the drive letter for your CD-ROM drive, place the Windows NT system CD-ROM in the drive, then click Continue.

7. When setup is complete, close the Network control panel.

8. Restart Windows NT to enable the new network service.

Setup for TCP/IP printing from Windows NT is complete.

Setting Up the Splash Server TCP/IP Print Queue

Follow these steps to connect to the Splash Server and create a print queue that sends jobs to Splash over the TCP/IP network. You need the following items to complete this procedure:

■ TCP/IP address for the Splash Server

■ *Splash CD* (provided with the Splash Server)

To set up the Splash TCP/IP print queue:

1. Click the Start button, point to Settings, then choose Printers.
    The Printers control panel appears.

2. Click Add Printer. The Windows NT Add Printer Wizard appears.

3. Select "My Computer" then click Next. A list of printer ports appears. You must add an LPR port to support TCP/IP printing.
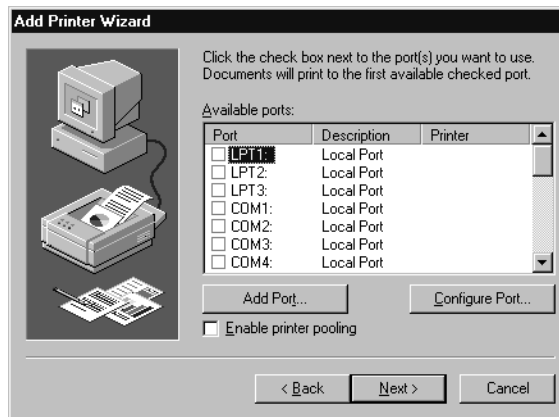
4. Click Add Port. A list of printer port types appears.
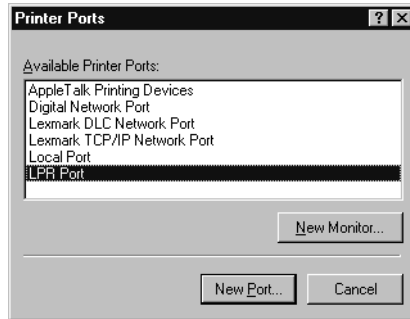
5. Select "LPR Port" then click New Port.

The Add Printer Wizard asks you to provide the TCP/IP address for the Splash Server.
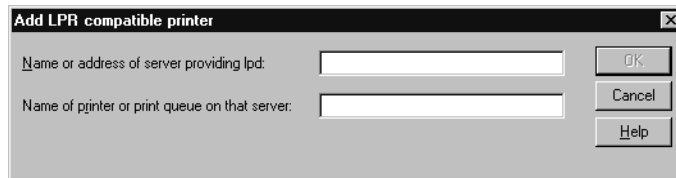
6. Enter the address for the Splash Server and the name "SplashLPD" for the server. (The name appears in the list of ports in the Add Printer Wizard.) Click OK to continue.

The Splash Server TCP/IP address appears as a new port in the list.

7. Be sure the Splash TCP/IP port is selected, then click Next.
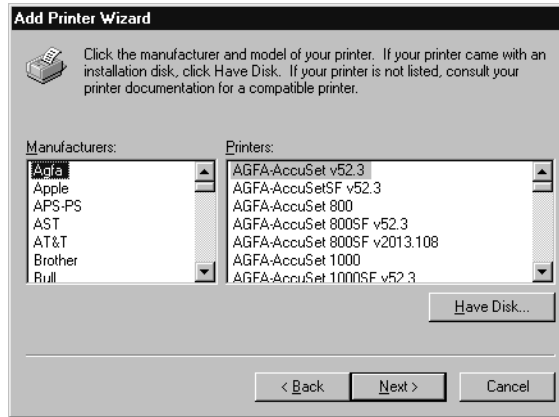
8. Click Have Disk.
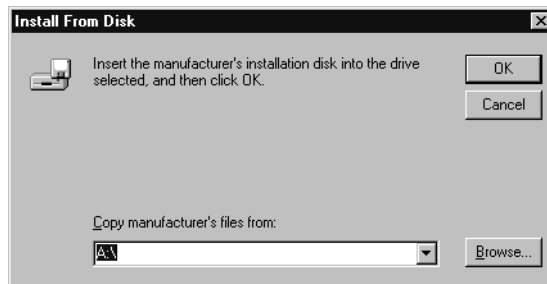
9. Insert the *Splash CD* in the computer, then click Browse.
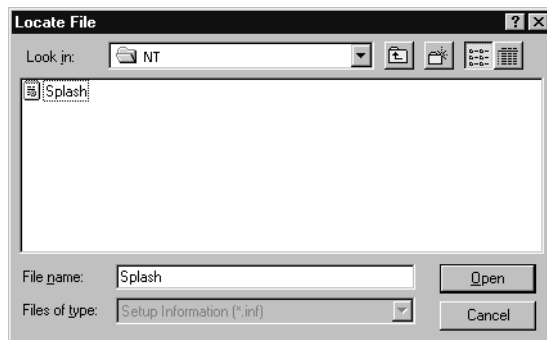
10. Select the file "Splash" then click Open.
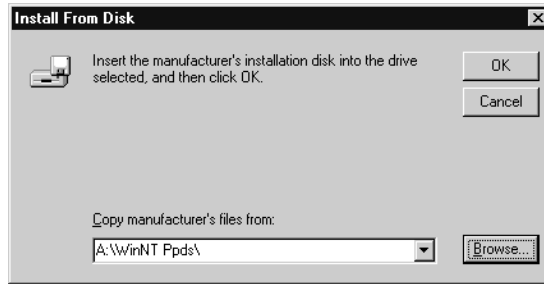
11. Click OK. Windows NT asks you to select the model of your Splash printer.
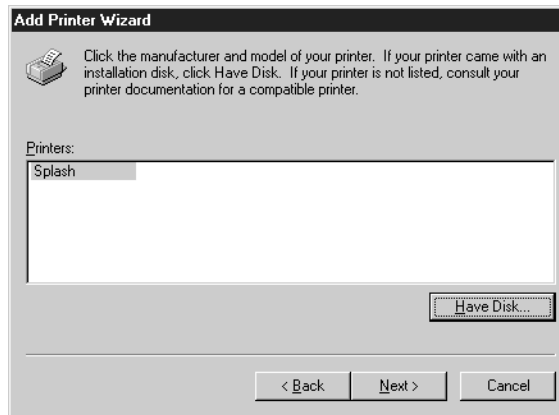
12. Select the printer/copier from the Printers list, then click Next.

Windows NT displays more options for setting up the print queue.
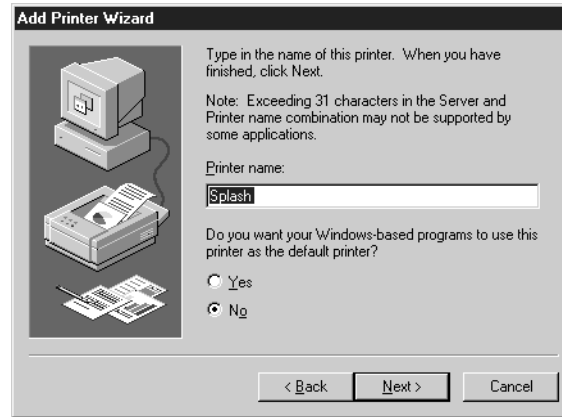
- ■ If you want to change the name for the Splash printer/copier, type a new name in the text box. (The name you enter becomes the name of the printer as it appears in your applications and in the Printer control panel.)

- ■ If you want the Splash printer/copier to be the default printer for your computer, choose Yes. Otherwise, choose No.

13. Click Next to continue.
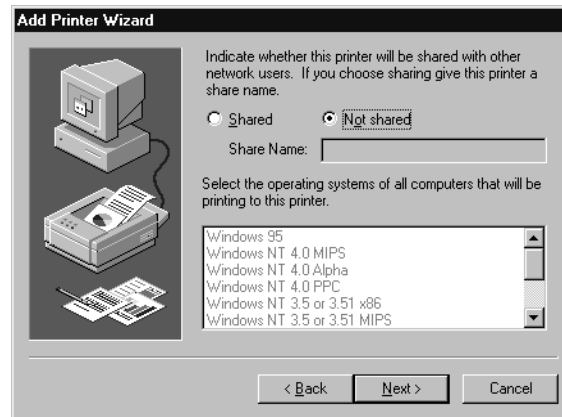
14. Choose Shared to allow other Windows NT and Windows 95/98 clients to connect to this print queue for printing to Splash. If you do not choose Shared, only this computer will be able to use the LPR port to print to Splash.

If you choose Shared, select the operating systems for all computers that will use the print queue from the list.

15. Click Next.

Windows NT asks you to insert system software disks for the operating systems you selected in the previous step. Insert the floppy disks or CD-ROMs and click OK as directed by the Add Printer Wizard. When all files are copied, the Add Printer Wizard asks if you want to print a test page.

16. Select Yes to print a test page then click Finish.
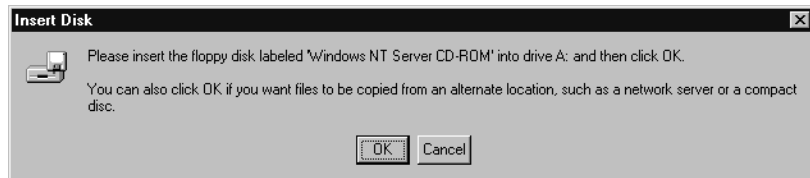
17. Click OK, insert the Windows NT system software CD-ROM in your computer's CD-ROM drive then click OK.

Windows NT copies the files needed to set up the print queue. A test page prints at the printer/copier to confirm that setup was successful.
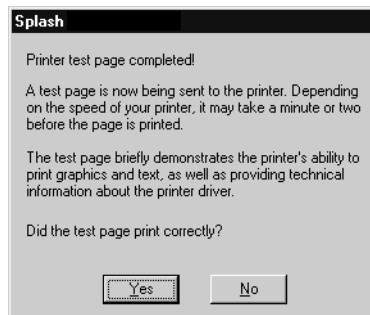
18. Click Yes. The Splash TCP/IP print queue appears as a shared printer in the Printers control panel.
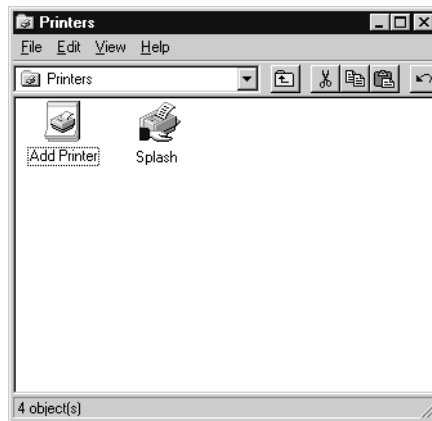
Set up for the Splash TCP/IP print queue is complete. For instructions on how to use the print queue from a Windows 95/98 or Windows NT client on the network, see the on-line manuals *Printing to Splash From Windows NT* or *Printing to Splash From Windows 95/98*, provided with the Splash Server.

Setting Up NetWare Direct Printing to Splash

This section describes how to set up the Splash Server to receive print jobs from clients on an IPX network.

Setting Up the Novell Server for Printing to Splash

To set up the Novell Server for NetWare Direct use PCONSOLE from a client connected to the Novell Server to create a print server and a print queue for Splash. Instructions are provided for running PCONSOLE from a NetWare 3.1.x Server, a NetWare 4.0.x Server, and a NetWare 4.1.x Server.

Creating a Print Server and Print Queue for a NetWare 3.1.x Server

To create a print server and print queue for the NetWare Direct connection:

1. From a workstation, log in to the server as a user with sufficient privileges to create a print queue (Admin or Supervisor).

2. From the client workstation, run PCONSOLE.EXE in SYS:PUBLIC (D:\PUBLIC).

Note: The root directory name or drive may be different for your machine.

3. Select "Print Server Information" and press Enter to show the list of print servers.

4. Press Insert and type a name for the Splash print server (recommended name: "SPLASH").

5. Press Enter to create the print server, then press Escape to close the Print Servers window.

6. Select "Print Queue Information" and press Enter to show the list of print queues.

7. Press Insert and type a name for the Splash print queue (recommended name: "SPLASH_Q").

8. Press Enter to create the print queue.

9. Make sure the new SPLASH_Q print queue is highlighted, then press Enter again.

10. Select "Queue Servers" and press Enter to show the list of Queue Servers (it should be empty).

11. Press Insert to display a list of available print servers in the "Queue Server Candidates" window.

12. Select the print server ("SPLASH") that you created in Step 4. Press Enter to copy it to the print queue.

13. Press Escape four times to close the windows, then press Enter (Yes) to exit PCONSOLE.

Creating a Print Server and Print Queue for a NetWare 4.0.x Server

To create a print server and print queue for the NetWare Direct connection:

1. From a workstation, log in to the server as a user with sufficient privileges to create a print queue (Admin or Supervisor).

2. From the client workstation, run PCONSOLE.EXE in SYS:PUBLIC (D:\PUBLIC).

    Note: The root directory name or drive may be different for your machine.

3. Select "Print Server" and press Enter to show the list of print servers.

4. Press Insert and type a name for the Splash print server (recommended name: "SPLASH").

5. Press Enter to create the print server, then press Escape to close the Print Servers window.

6. Select "Print Queue" and press Enter to show the list of print queues.

7. Press Insert and type a name for the Splash print queue (recommended name: "SPLASH_Q").

8. Press Enter to create the print queue.

9. Make sure the new SPLASH_Q print queue is highlighted, then press Enter again.

10. Select "Print Servers" and press Enter to show the list of Print Servers (it should be empty).

11. Press Insert to display a list of available print servers in the "Print Queue Server Candidates" window.

12. Select the print server ("SPLASH") that you created in Step 4. Press Enter to copy it to the Print Server window.

13. Press Escape four times to close the windows, then press Enter (Yes) to exit PCONSOLE.

You are ready to set up NetWare Direct on the Splash Server. For more information about PCONSOLE see your Novell NetWare manuals.

Creating a Print Server and Print Queue for a NetWare 4.1.x Server

To create a print server and print queue for the NetWare Direct connection:

1. From a workstation, log in to the server as a user with sufficient privileges to create a print queue (Admin or Supervisor).

2. From the client workstation, run PCONSOLE.EXE in SYS:PUBLIC (D:\PUBLIC).

   Note: The root directory name or drive may be different for your machine.

3. Select "Print Server" and press Enter to show the list of print servers.

4. Press Insert and type a name for the Splash print server (recommended name: "SPLASH").

5. Press Enter to create the print server, then press Escape to close the Print Servers window.

6. Select "Print Queue" and press Enter to show the list of print queues.

7. Press Insert and type a name for the Splash print queue (recommended name: "SPLASH_Q").

8. Press Enter. The "Print Queue's Volume" window appears. If you know the name of the volume needed for storing the print queue, enter it in the window.

    If you do not know the volume name, press Insert, then select the "Organizational Unit" for your server. The mounted volume names appear. The volume names should correspond with the server name (for example, TESTLAB_40.SYS). Select the volume for your server, then press Enter to create the print queue.

9. Make sure the new SPLASH_Q print queue is highlighted, then press Enter again.

10. Select "Print Servers" and press Enter to show the list of Print Servers (it should be empty).

11. Press Insert to display a list of available print servers in the "Print Queue Server Candidates" window.

12. Select the print server ("SPLASH") that you created in Step 4. Press Enter to copy it to the Print Server window.

13. Press Escape four times to close the windows, then press Enter (Yes) to exit PCONSOLE.

You are ready to set up NetWare Direct on the Splash Server. For more information about PCONSOLE see your Novell NetWare manuals.

Setting Up NetWare Direct on the Splash Server

The NetWare Direct application connects NetWare Direct to the Novell NetWare server for delivering print jobs to Splash.

To set up NetWare Direct:

1. Start the Splash Server on the server computer.

2. Choose Enterprise Networking from the Server menu.

3. In the Print Server text box, type the name of the Novell print server you created for Splash. ("SPLASH" was the print server name recommended in the setup instructions.)
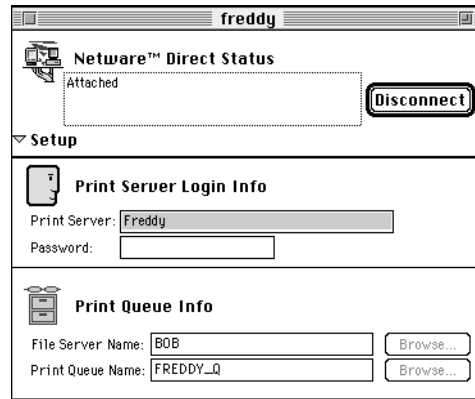
4. Type the password for the print server (if one was assigned).

5. Under Print Queue Info, click the Browse button next to the File Server Name text box and select the name of the Novell NetWare file server where you created the Splash print queue.

6. Click Browse next to the Print Queue Name text box and select the Splash print queue. ("SPLASH_Q" was the print queue name recommended in the setup instructions.)

7. Choose Save from the File menu to save the NetWare Direct connection document.

IMPORTANT: The document must be saved to the IPX Direct folder inside the Splash Extras folder on the Splash Server. Give the document a name that describes the Novell print queue (for example: "SPLASH_Q on MARKETING server").

8. Click Connect.

9. Close the NetWare Direct setup window.

Setup for NetWare Direct is complete.

Activating NetWare Direct at Startup

You activate NetWare Direct from the Splash Server application. In the Server menu choose Preferences, click the Network button, then select the "Enable Enterprise Networking" checkbox. This opens and connects NetWare Direct when the Splash Server application starts, and disconnects and closes NetWare Direct when the Server application is closed. NetWare Direct runs in the background while the Server application is running. When a PC client workstation sends a print job to the Splash print queue on the Novell file server, NetWare Direct automatically opens and delivers the print job to the Splash Server.

Note: The NetWare Direct setup window does not need to be open for NetWare Direct to run.

To deactivate NetWare Direct, uncheck the Enable Enterprise Networking checkbox in the Server Network Preferences.

Note: If NetWare Direct is not set up and opened, jobs sent to the designated Splash print queue on the Novell server are held at the Novell server. To have these jobs processed by the Splash Server, NetWare Direct must be opened.

NetWare Direct Notes

If the Novell File Server Does Not Appear During NetWare Direct Setup

If, during NetWare Direct setup, a list of Novell file servers does not appear when you click the Browse button under Print Queue Info, you may need to specify the Novell server's Ethernet frame type in the Mac IPX control panel. To do this:

1. On the Splash Server computer, open the Apple menu, point to the Control Panels submenu, then choose the Mac IPX control panel. The Mac IPX control panel appears.
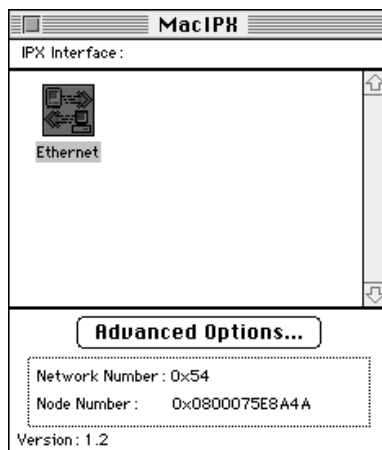
2. Double-click the Ethernet icon under IPX Interface. The Ethernet Access Configuration dialog box appears.
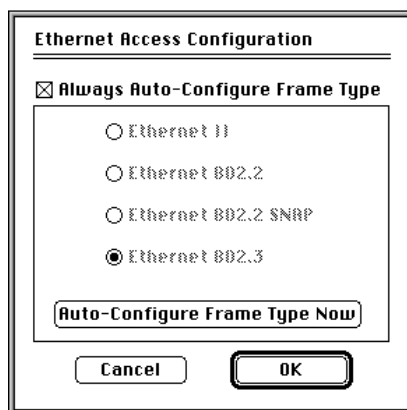
3. Deselect "Always Auto-Configure Frame Type."

4. Select the option that matches the Novell file server Ethernet frame type.

5. Click OK.

Novell Network Number and Node Number Locations

If you need to find the Novell network or node numbers for the Splash Server, they appear in the Mac IPX control panel on the Splash Server computer.

AppleTalk Network Protocol Changes

If the network protocol for the Splash Server is changed from Ethernet to Modem Port or Printer Port (LocalTalk), this does not interfere with the ability of Splash NetWare Direct to print jobs to Splash from Novell NetWare print queues. Novell Server print jobs resume downloading to the Splash Server after the Server is restarted.

Print Queue Connections

Enterprise Networking is configured to support up to three Novell NetWare print queue connections and ten TCP/IP connections to Splash. You must install additional memory on the Splash Server computer to support additional IPX and TCP/IP print queues (about 100K per additional print queue).

Setting up NetWare Directory Service

Enterprise Networking provides native support for NetWare 4.1 and IntranetWare NetWare Directory Services (NDS). This section describes how to create print queues on NDS and how to set up the Splash Server for receiving print jobs from NDS print queues.

Novell 4.x and IntranetWare servers include NetWare Directory Service (NDS) support. NDS is a naming scheme and database that allows a company to put all of its servers and services into one large, hierarchical database.

With NDS and the Splash software you can create a single print server object and assign virtual printers to that print server. Virtual printers can have one or more print queues associated with them. To change the printers or queues, change the Print Server assignment in the NDS database. Splash Enterprise Networking reads the NDS database for the print server information and services the specified queues. This allows you to control print queues associated with the Splash Server without making adjustments at the Splash Server.

Setting Up an NDS Print Queue

To create an NDS print queue:

1. From Microsoft Windows, run NWAdmin.

2. Navigate through the directory tree to find the container where you want to create printing objects.

3. Highlight that container and select "Print Services Quick Setup" from the Tools menu.

4. In the Print Services Quick Setup dialog box, enter a new print server name or browse the directory tree to select an existing print server. This name, with its full path (Fully Distinguished) is the name that you will use in the Novell NDS setup window in Enterprise Networking.

5. Enter a name for the printer you want to create and the associated configuration information.

6. Enter a Print Queue name.

7. Click the Browse button to the right of the volume field to browse the tree for the volume where you want this print queue to be created.

8. When you finish, click Create to create the objects and have all of the necessary assignments made (Printer to print server, Queue to printer).

    You are ready to set up NetWare NDS Direct at the Splash Server.

Setting the Preferred Network Tree

Before creating a NetWare NDS connection, you must set the preferred tree in the NetWare client configure window.

If you do not set the preferred tree, the NDS connection window displays an empty list when you click the Browse button, and error -18000 may be returned when you click the Enable button.

To set the preferred tree:

1. Select "Configure" from the Netware client "tree" menu to the right of the Finder menu.

2. Select the preferred tree, then click the Set Preferred button. If this button is dimmed, the preferred tree has already been set.

Setting Up NetWare NDS Direct at the Splash Server

To set up NetWare NDS Direct:

1. Choose Enterprise Networking from the Server menu in the Splash Server application.

An untitled Novell document appears.

2. In the Print Server text box, type the Fully Distinguished name of the Novell print server you created for Splash. Type the password for the print server (if one was assigned).

If you click the Browse button next to the Print Server text box, Enterprise Networking displays a list of print servers.
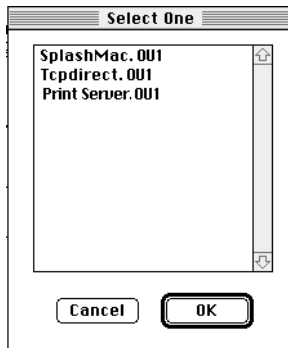
3. Select a print server then click OK.

4. Click the Connect button to enable NetWare NDS Direct. A list of printers appears at the bottom of the Novell document window.
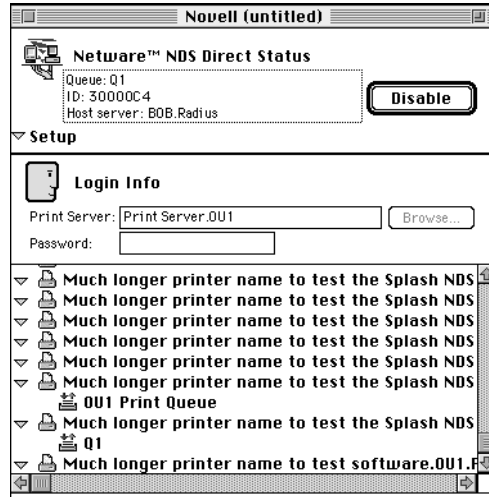
The status area at the top of the document window shows the current queue being checked.

The queues are checked in round-robin order and any waiting jobs are pulled from the queues.

Splash NetWare NDS Direct setup is complete.

Calibrating With Splash ColorCal

This section describes how to calibrate the DocuColor Pro printer/copier with Splash ColorCal. Your Splash DC Series v4.0 Server includes a color scanner that you connect to the server Power Macintosh to run ColorCal. For correct calibration results, be sure to use only the scanner provided with Splash to perform calibration with ColorCal.

Why Calibrate with Splash ColorCal?

A basic characteristic of all color copiers is that the output color drifts over time, producing inconsistent color from day to day, or even hour to hour. This shift in color can be caused by changes in humidity, temperature, and the number of copies made. Splash ColorCal corrects this to ensure that output is consistent over time.

Splash ColorCal, unlike other calibration solutions, is an ideal tool for both business graphics and other less-technical users, as well as for the more traditional prepress users. Splash ColorCal requires no special color knowledge and does not require the use or purchase of an expensive densitometer. Splash ColorCal is more accurate than other calibration solutions because it automatically adjusts gray balance in addition to accurate linearization. Further, it uses three times more color

patches, with over six times the resolution in critical regions to provide results more accurate than competitive solutions. Splash ColorCal includes an option that randomizes placement of the patches on the page to minimize the effects of print density variations on a page. Splash ColorCal allows calibration on heavy stock papers.

Splash ColorCal provides color calibration for your DocuColor Pro printer/copier. ColorCal guides you step-by-step through a simple process to quickly calibrate your printer/copier for consistent, accurate color.

Once calibration is complete, you can use Splash CMYK and RGB color correction (selected in the Splash print driver), or use advanced features of ColorCal to create and save custom color profiles. You can perform multiple calibrations, and save the individual profiles for use with specific printing conditions and print media. Calibration takes only a few minutes to complete, so you can test your printer's color output and recalibrate as often as needed.

The ColorCal application is located in the Splash Calibration Folder within the Splash Utilities Folder on the Splash Server. The Splash Calibration Folder can be moved anywhere on the Splash Server hard disk. A folder containing the ColorCal profiles is located in the Preferences Folder within the System Folder. (See"Managing the Profiles Folders" on page 58 for notes about moving Splash color profiles to other folders.)

Calibrating the Printer/Copier

This section describes how to calibrate your printer/copier with Splash ColorCal. The scanner provided with your Splash DC Series Server must be connected to the Splash Server before you can calibrate. Follow the instructions provided with the scanner to connect it to the Splash Server computer and set it up for scanning.

Note: Make sure the printer/copier is powered on during the entire Splash ColorCal calibration process.

Note: If you leave the scanner powered on between calibrations, be sure to turn it off and then back on before calibrating.

For best color printing results, recalibrate the printer/copier at least once daily. If printer/copier use is heavy, you may want to recalibrate as frequently as several times a day. ColorCal runs only on the Splash Server computer. The printer/copier must have 8.5"x11", A4, or larger paper loaded to print the Calibration Target used in this process.

Note: ColorCal calibration does not affect the quality of photocopies. Only files printed with Splash are affected. (Always calibrate the printer after a service call.)

To calibrate with Splash ColorCal:

1. Double-click the **ColorCal** icon in the ColorCal folder on the Server. (The Splash Server application can be running during calibration.)

Splash ColorCal appears.
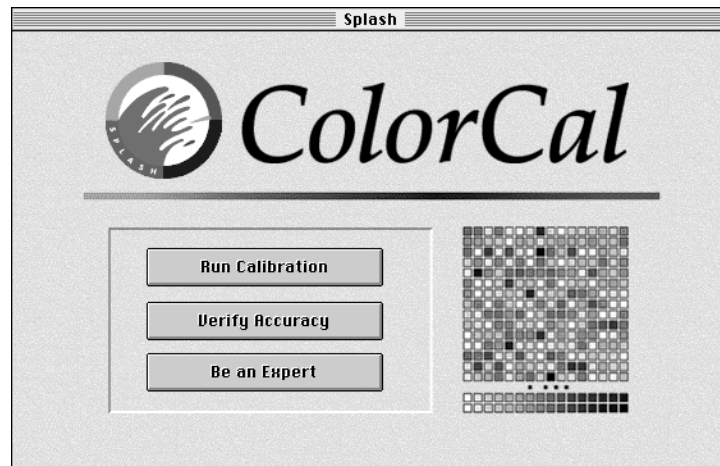
2. If you are using ColorCal for the first time, or if the printer/copier has recently been serviced, choose **Calibrate Scanner** from the ColorCal menu.

    This command causes ColorCal to adjust the printer/copier to compensate for scanning differences that could affect calibration quality. (This command affects ColorCal operation only. It does not affect the scanning capability of the printer/copier for other scanning operations.)

    If you have calibrated at least once before, go to Step 8.

3. Choose **Printing Options** from the Splash menu. A dialog box appears.
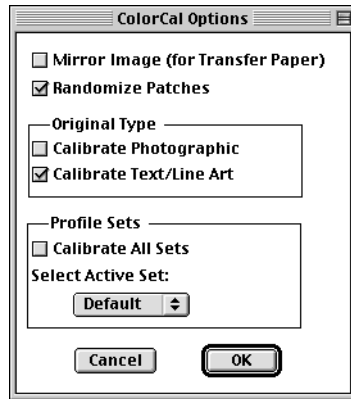
4. Be sure the **Randomize Patches** option is selected.

This option averages out print density variations across the calibration target page, and ensures high-quality calibration. For best results, be sure this option is selected before you calibrate with ColorCal.

5. Select **Calibrate Photographic** or **Calibrate Text/Line Art** to indicate the types of jobs that will be printed and for which the copier should be calibrated. If you select both, you will perform calibration for Text/Line Art mode and then perform calibration a second time for Photographic Mode.

Note: If only one Original Type is selected, calibration information for the other is removed when calibration is performed. Jobs at the server will be printed in whichever mode was last selected in ColorCal.

6. Select **Calibrate All Sets** if you want to calibrate all calibration profile sets. Or choose the profile set to calibrate from the **Select Active Set** menu. For information about creating Calibration Sets, see "Creating Calibration Sets" on page 43.

7. Click OK.

8. Be sure that the copier platen cover is closed, then click **Run Calibration**.

9. Select a paper source for the ColorCal calibration target.

Select a tray to print from:

- ● Tray 1   (Letter LEF)
- ○ Tray 2   (Letter)
- ○ Tray 3   (Letter LEF)

- ○ Manual Feed   **OK**

   Cancel
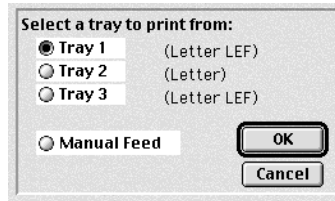
The paper size can be 8.5"x11", A4, or larger. If you select **Manual Feed** you can select "Heavy Weight" paper.

If you select **Manual Feed**, choose a paper size from the menu that appears.

Paper Size:
- ✓ **Letter SEF**
- **Letter LEF**
- **Legal**
- **Legal 13**
- **A4 SEF**
- **A4 LEF**
- **A3**
- **12 x 18**
- **B4**
- **9 x 12**
- **Tabloid**
- **DocuPac**

Cancel
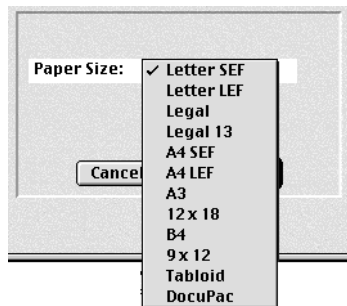
Note: For Manual Feed, you must orient the paper in the bypass tray so the short-edge feeds into the copier first (SEF orientation).

ColorCal prints a calibration target on the printer/copier. The target always shows uncalibrated printer performance—even if you have calibrated the printer before.

ColorCal prompts you to examine the target for printing defects.

Check the print target for defects.

   Continue

   Reprint   **Cancel**
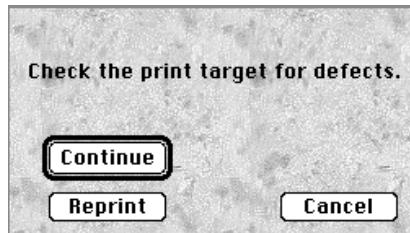
If printing defects (such as creased paper or uneven or flaking toner) appear on the target, click **Reprint** to produce a new target on the printer/copier.

10. When you have printed an acceptable Calibration target, click **Continue**. ColorCal prompts you to place the target on the scanner surface for scanning.

Place target on glass.
Click Scan when ready.

[Scan]   [Cancel]
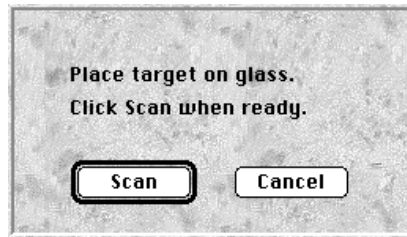
11. Place the Kodak Gray Scale target (provided with Splash ColorCal) and the printed target face-down on the scanner glass. Allow a 0.25" to 0.5" margin between the targets and the edge of the scanner surface.

Orient the target with the short edge of the paper along the left side of the scanner surface. The Gray Scale target must cover the grayscale patches in the upper-left corner of the ColorCal target. (Place the Gray Scale target face-down on the glass first, then place the ColorCal target face-down on top of the Gray Scale target.)

IMPORTANT: Handle the Gray Scale target by the edges to avoid smudging the patches. Keep the target in its protective sleeve when it is not being used. Replace the target if the patches become damaged. Contact Xerox Customer Support to order a replacement Gray Scale target.

Note: Be sure to use the Gray Scale target for this step to produce the most accurate scanning results. If the Gray Scale target is not present during calibration, ColorCal uses default information to set grayscale densities.

12. Click **Scan**.

ColorCal scans the Target and determines current color performance based on the acquired image. A progress bar appears while the target is being scanned.

Scanning in progress

[Cancel]
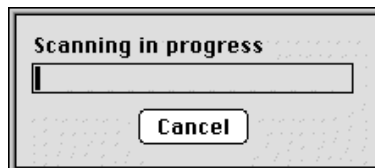
When this process has concluded, ColorCal displays a graphic representation of color performance for the printer.
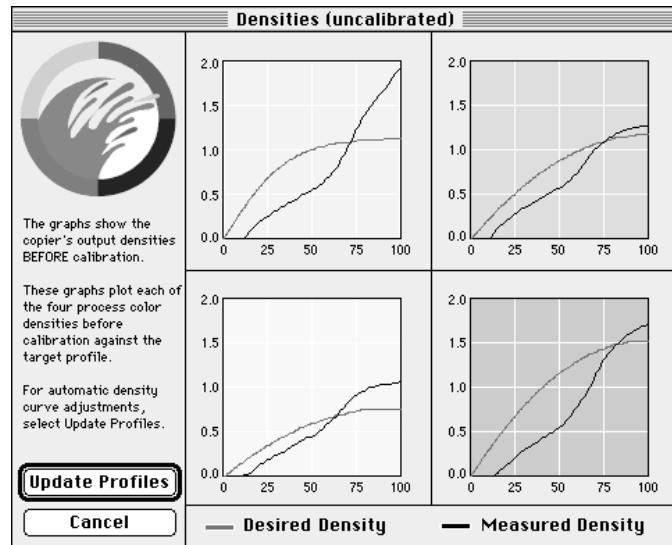
The **Desired Density** lines represent accurate CMYK (cyan, magenta, yellow, and black) printing for the current CMYK color profile selected in the Verify Against pop-up menu in the Set Active Profiles dialog box (see page 46). The **Measured Density** lines show actual uncalibrated printer performance as measured from the scanned Target.

(*Technical note:* The vertical axis for each color curve is in units of Status-T less the paper density. The horizontal axis is represented as dot percentage from 0% to 100%.)

13. Click **Update Profiles** to have ColorCal adjust color output to match the Desired Density levels for your color profiles.
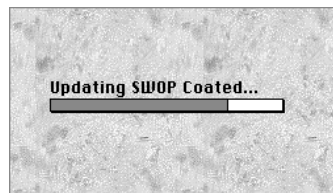
ColorCal updates all profiles at the same time, even custom ones which have been created, so you can use any color profile without repeating color calibration.

When profile updating is complete, a message appears.
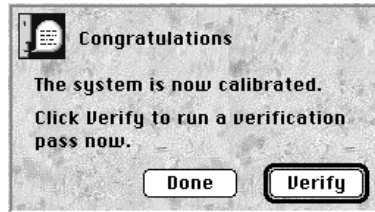
14. Click **Verify** to check calibration results for the printer (see "Verifying Printer Color Accuracy" on page 45), or click **Done** to return to the ColorCal main window.

Color calibration is complete. After you run calibration, you can select any of the standard color profiles included with ColorCal for consistent, accurate color (see "Using ColorCal Profiles with Splash" on page 47). If printer use is heavy, use Splash ColorCal throughout the day to keep track of color printing performance and recalibrate as needed (see "Verifying Printer Color Accuracy" on page 45).

To exit ColorCal, choose **Quit** from the File menu.

Inverting the Calibration Image

Splash ColorCal provides a special feature for calibrating to heat transfer paper used for adhering color output to non-standard media such as rice paper, rag paper, or T-shirts. To ensure consistent color output, use the original artwork for the Calibration Target, and activate the "Mirror Image" option before calibrating (see page 38). This inverts the scanned artwork "target" to match the final transferred piece.

Creating Calibration Sets

You can perform multiple calibrations and save each one with a unique name. You can then select one of the calibration sets to use with a particular tray. The same calibration can be used for multiple trays. Each calibration set contains all of the Splash Profiles.

To create a calibration set:

1. Choose Edit Sets from the ColorCal menu.

2. Click Add.
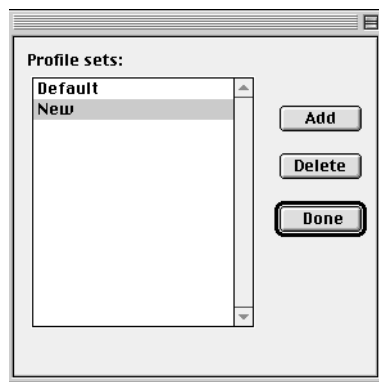
3. Enter a name for the calibration set.

4. When you calibrate the printer/copier, choose the name of the calibration set to calibrate from the ColorCal Options dialog box. Follow the instructions described in "Calibrating the Printer/Copier" on page 36.

Note: If both Photographic and Text/Line Art Original Types are selected in the ColorCal Printing Options, you must perform calibration for both modes—two calibrations per set. If only one is selected, ColorCal removes the calibration information for the other when the calibration is performed. Jobs at the server will print in whichever mode was last selected in ColorCal.

To specify calibration from different sets to paper trays:

1. Choose Color Profile Sets from the Splash Server's Server menu.

2. For each tray, choose the calibration set to use.
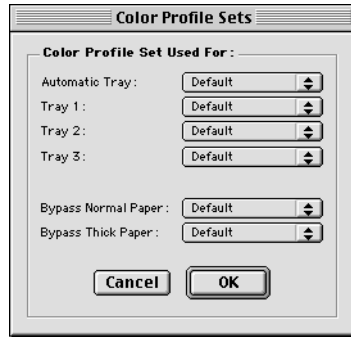
3. When you are done, click OK.

Verifying Printer Color Accuracy

To verify the accuracy of the calibration process, or to determine the amount of drift since the last calibration, click "Verify Accuracy" in the ColorCal main window (or click "Verify" in the dialog box that appears when calibration is complete). Follow the same steps used to initially calibrate the printer (see "Calibrating the Printer/ Copier" on page 36).

When the verification process has concluded, ColorCal displays the color performance results. Compare the Desired Density lines with Measured Density lines to determine color printing accuracy. The example below shows that measured output closely matches desired color performance. Recalibration is not needed.
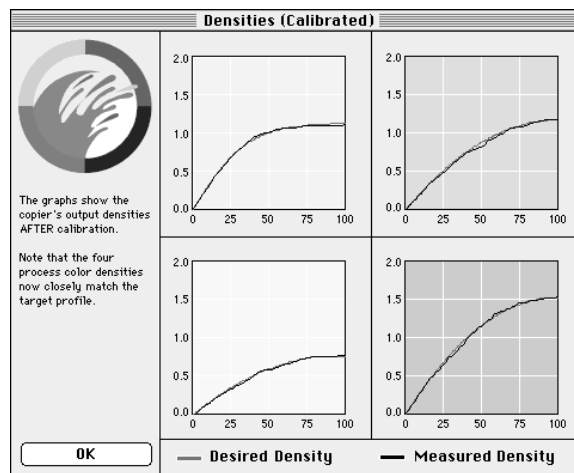
If the Measured Density levels do not match Desired Density levels, calibrate the printer again (see page 36).

Setting the Verify Against Profile

If desired, you can change the calibrated profile Splash ColorCal uses to create the Desired Density lines during verification. For example, you might want to set the verification profile to CMYK SWOP if you use this profile frequently for printing.

1. In the Splash ColorCal application, choose **Set Active Profiles** from the Splash menu. The Standard and Custom CMYK profiles appear.

```
┌─────────────────── Active Profiles ───────────────────┐
│                                                         │
│   Standard Profiles:              CMYK Custom           │
│                                                         │
│                               Custom 1:  🗍 Japan... ▼   │
│                               Custom 2:  🗍 SWOP ... ▼   │
│       SWOP:  🗍 SWOP... ▼      Custom 3:     CMYK ... ▼   │
│   Euroscale:  🗍 Euro... ▼     Custom 4:     CMYK ... ▼   │
│    Enhanced:    CMY... ▼       Custom 5:     CMYK... ▼   │
│                               Custom 6:     Japan... ▼  │
│                               Custom 7:     Japan... ▼  │
│  Pass Through:   Visual ... ▼  Custom 8:     SNAP ... ▼  │
│  Verify Against:  CMYK ... ▼   Custom 9:     Uncali... ▼ │
│                               Custom 10:     Uncali... ▼ │
│                                                         │
│                    ┌─────────┐                          │
│                    │   OK    │                          │
│                    └─────────┘                          │
└─────────────────────────────────────────────────────────┘
```
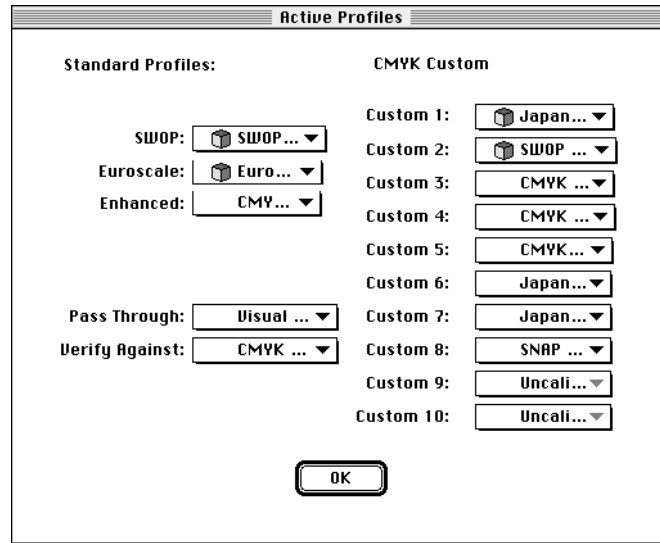
2. Choose a profile in the Verify Against pop-up menu.

You can choose any calibrated CMYK profile, custom profile, or Pass Through (standard output) profile for verification.

3. Click **OK**.

To verify the accuracy of standard color output for your DocuColor Pro printer/copier, choose the MajestiK Standard or Regal Standard profile in the Verify Against pop-up menu. This causes Splash ColorCal to verify measured densities against a benchmark MajestiK or Regal printer at Xerox laboratories.

For most purposes the Pass Through profile should be set to "Visual Standard" (the default setting). This selection produces the most visually smooth output.

Using ColorCal Profiles with Splash

Any network computer with the Splash client software installed can select a Splash CMYK color profile for its print jobs. This section describes how to select a profile for a Macintosh client with the custom Splash driver.

Note: Splash provides client software for computers running MacOS, Windows 3.1, Windows 95/98, and Windows NT. Refer to the appropriate *Printing to Splash...* on-line manual for instructions on how to enable Splash color correction for each of these client computers.

To select a Splash CMYK Press Profile with the custom Splash driver on a Macintosh client:

1. From your application, choose Print from the File menu.

2. Click the **Splash** button to select the Splash print features available for your printer/copier.

    The Splash Default Options appear.
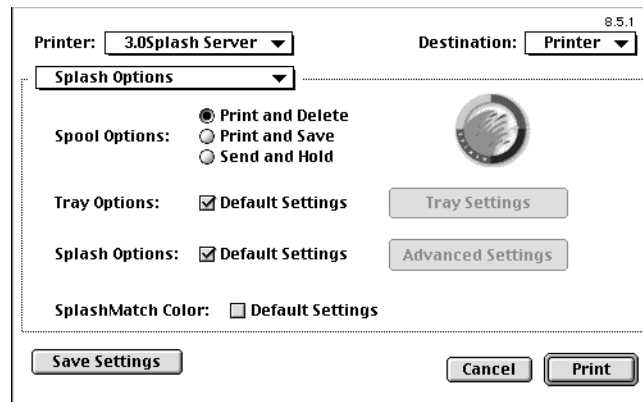
3. Deselect the **Default Settings** checkbox next to **Splash Options**, then click **Advanced Settings**.

4. Click the **Color** button to see Splash color output options.
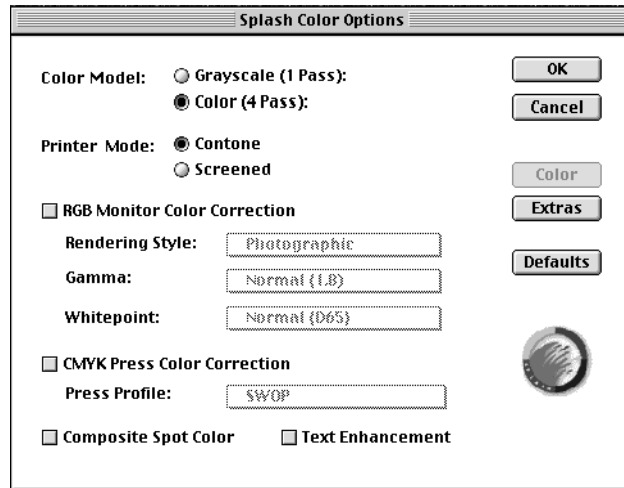
5. Set RGB Monitor color correction options, CMYK Press color correction options, or both. See the *Printing to Splash*... on-line manuals for information on how to select RGB Monitor color correction options.

To select a CMYK profile, select the **CMYK Press Color Correction** checkbox, then select a Press Profile from the menu.
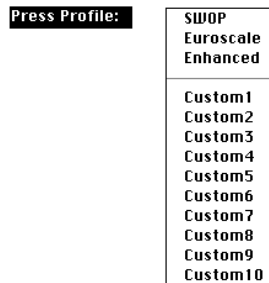
6. Select other print options as desired, then click OK to send the job to Splash.

The Custom1 through 10 options are set in the Splash ColorCal Active Profiles dialog box or in the Splash Server application. (See the next section.)

To print to Splash with the printer/copier's standard color characteristics (no color correction applied), deselect both RGB and CMYK color correction checkboxes in the Splash Color Options dialog box. This activates the Pass Through profile selected in the Splash ColorCal Active Profiles dialog box (see page 53).

Setting the Custom and Pass Through Profiles

To set custom color profiles for the ten Splash CMYK Custom options, or to choose the Pass Through (standard output) setting:

1. In the Splash ColorCal application, choose Set Active Profiles from the Splash menu. The Active Profiles dialog box appears.
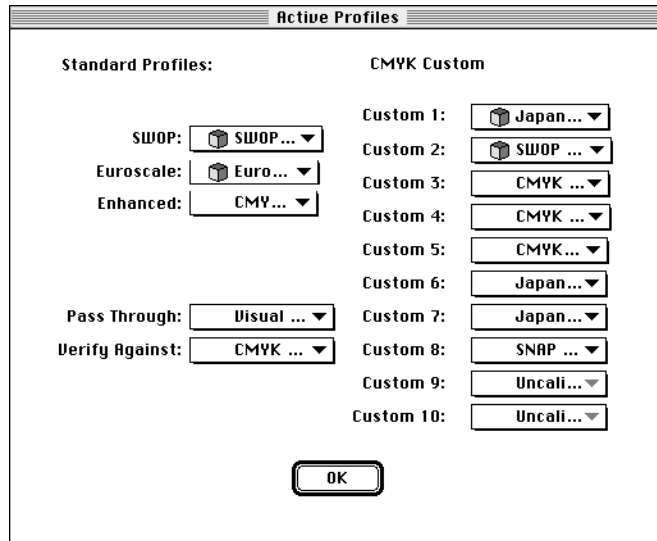
You can set the active profiles for the ten custom CMYK color correction options that appear in the printer driver when you print a job to Splash (for descriptions of the color profiles, see page 49).

2. Set the Custom profiles with the pop-up menus.

Custom 1 through **Custom 10** can be configured for any of the CMYK profiles provided with Splash, or for any user-developed calibrated CMYK color profiles (see "Creating a Custom Color Profile" on page 54 for information about how to create your own CMYK custom profiles).

Profiles with a colored cube on the left in the menus are the Splash v2.0/3.x multi-dimensional color correction profiles. Profiles with no symbol are Splash v1.0 one-dimensional profiles. You can select either type of profile.
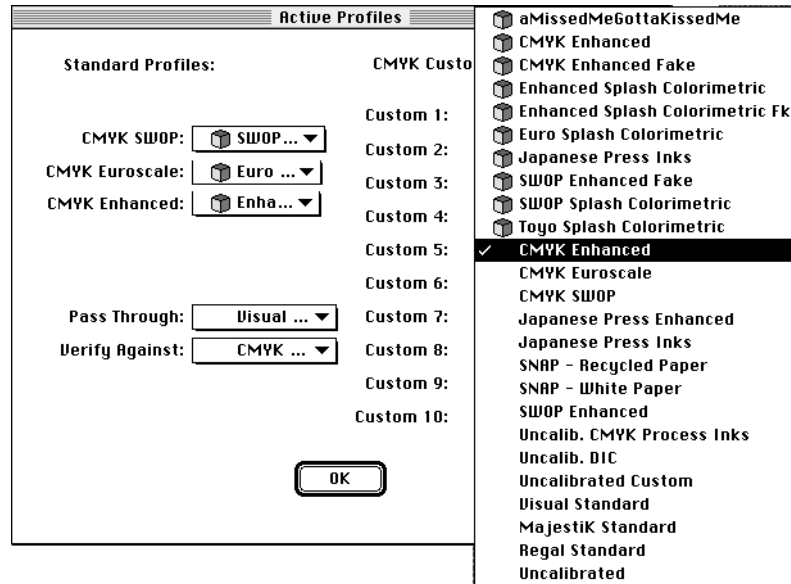
3. If desired, you can set the Pass Through profile.

The Pass Through profile is used when Splash Color Correction is not enabled in the Splash printer driver. Pass Through can be set to use a smooth visual standard that is optimized for RGB printing, or to use standard Regal or MajestiK color output characteristics, either calibrated or uncalibrated.

4. If needed, you can change the profiles used for the three standard Splash CMYK profiles.
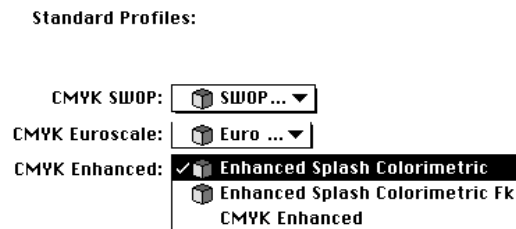
For example, if you find that you prefer a v1.0-style CMYK SWOP profile or a user-developed calibrated CMYK SWOP profile to the standard v2.0/3.x SWOP profile, you can change it in Active Profiles.

Note: If you decide to change the standard SWOP profile, ColorCal limits you to selecting another SWOP-type profile to avoid confusion at the printer driver.

5. When you have finished selecting profiles, click OK.

Splash ColorCal enables your profile selections for client printing.

You can set the Splash CMYK profiles from the Splash Server application as well. Choose **Color Profiles** from the Server menu to set profiles for Splash color correction.
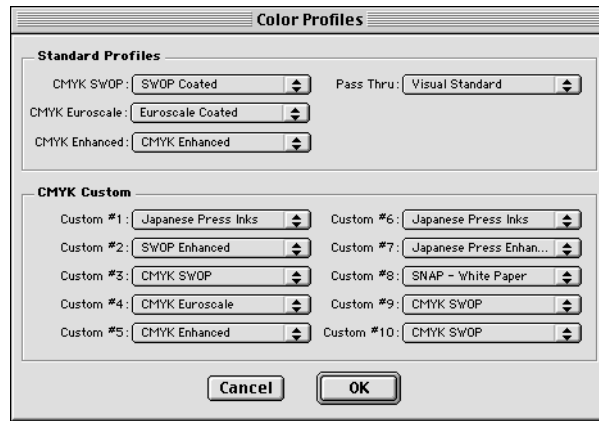
CMYK Custom Profiles

These profiles cause the colors for the printed job to match CMYK inks. Profiles with a colored cube on the left in the menus are the Splash v2.0/3.x multi-dimensional color correction profiles. Profiles with no symbol are Splash v1.0 one-dimensional profiles.

■ **Japanese Press Inks** is a calibrated profile that simulates Toyo inks.

■ **SWOP Enhanced** is a calibrated, higher dot gain (darker) version of CMYK SWOP. This profile prints vivid colors on your output, but remains similar to press inks in the mid-tones. Flesh tones may appear darker than normal. This profile is not intended for printing press proofs.

■ **Japanese Press Enhanced** is a calibrated, higher dot gain (darker) version of Japanese Press Inks. This profile prints vivid colors on your output, but remains similar to press inks in the mid-tones. Flesh tones may appear darker than normal. This profile is not intended for printing press proofs.

■ **CMYK SWOP** simulates SWOP press inks.

■ **CMYK Euroscale** simulates Euroscale press inks.

■ **CMYK Enhanced** makes colors slightly more vivid in the output. This profile is not recommended for printing press proofs.

■ **SNAP - White Paper** simulates newspaper inks. This profile is for printing to white paper.

■ **SNAP - Recycled Paper** also simulates newspaper inks, but is for printing to recycled paper stocks.

■ **Uncalib. CMYK Process Inks** is an uncalibrated older "fixed" CMYK profile that does not update when you calibrate with ColorCal. This option is provided for customers who prefer the older profile. (*Note:* Uncalibrated profiles are not recommended for printing jobs with RGB color to Splash.)

■ **Uncalib. DIC** is an uncalibrated "fixed" profile certified by DIC of Japan to provide the closest possible match to Japanese DIC press inks. This profile does not update when you calibrate with ColorCal. (*Note:* Uncalibrated profiles are not recommended for printing jobs with RGB color to Splash.)

Pass Through Profiles

Includes a "Visual Standard" profile for RGB printing, profiles that return the MajestiK, Regal, or Acolor printer/copier to standard color output, and an option for uncalibrated printing. When you use a color management system (from Kodak, Agfa, Apple, EFI, and others) for printing, make the appropriate "Standard" profile (MajestiK or Regal) the active Pass Through profile in the Active Profiles dialog box, and disable Splash color correction in the Splash Color Options dialog box at the Client workstation.

■ **Visual Standard** provides the widest gamut and smoothest color transitions when you print RGB colors. This is the default setting for the Pass Through option, and is the best selection for RGB printing to Splash. (*Note:* For best results when you print jobs that contain RGB data only, be sure to turn Splash CMYK color correction off in the Splash Color Options dialog box.)

■ **MajestiK Standard** reconfigures a MajestiK or Acolor 630/635 to match the color printing output of a "benchmark" MajestiK printer in the Xerox laboratories in Webster, NY. This setting, used in combination with Splash color correction disabled, should be used when MajestiK is selected with the PANTONE ColorDrive software or the included PANTONE Toolkit and MajestiK parameters are used to produce the most accurate PANTONE colors with the MajestiK, Regal, or Acolor 630/635/930/935 printer/copiers.

This setting can also be used with the Regal or Acolor 930/935 to more closely match the output characteristics of the MajestiK or Acolor 630/635. This can be useful when printing files originally designed to be printed on a MajestiK or Acolor 630/635 with Splash color correction disabled. This can be useful also when using other commercially available color management systems that provide MajestiK or Acolor 630/635 profile settings. Splash color correction should be disabled when printing using other color management systems. When a Regal or Acolor 930/935 is used with the MajestiK Standard setting, a loss of detail in the shadows may occur with some images.

■ **Regal Standard** reconfigures a Regal or Acolor 930/935 printer/copier to match the color printing output of a "benchmark" Regal printer in the Xerox laboratories in Webster, NY. This setting, used in combination with Splash color correction disabled, should be used when Regal is selected with the PANTONE ColorDrive software with the MajestiK, Regal, or Acolor 630/635/ 930/935 printer/copiers.

This setting can also be used with the MajestiK or Acolor 630/635 to more closely match the output characteristics of the Regal or Acolor 930/935. This can be useful when printing files originally designed to be printed on a Regal

or Acolor 930/935 with Splash color correction disabled. This can also be useful when using other commercially available color management systems that provide MajestiK or Acolor 930/935 profile settings. Splash color correction should be disabled when printing using other color management systems.

■ **Uncalibrated** sets the printer for uncalibrated color printing. This setting causes the printer/copier to produce raw, uncalibrated output that reflects the current state of the printer/copier.

Creating a Custom Color Profile

Splash ColorCal provides expert-level tools for creating custom CMYK user-defined profiles or modifying the calibrated CMYK profiles provided with ColorCal. You can edit only the calibrated CMYK profiles. To create a new profile, save an existing profile under a new name then modify the new profile. To use the profile editor:

1. Click "Be an Expert" in the Splash ColorCal window. The Splash ColorCal edit window appears.
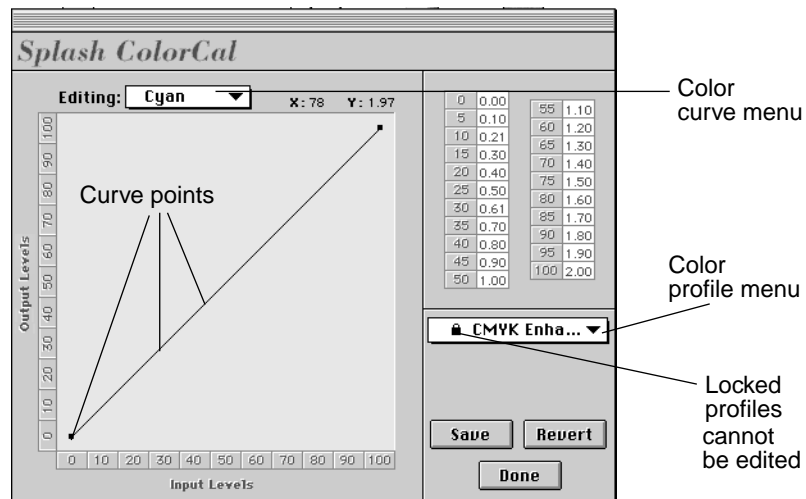
2. Select a color profile to edit from the pop-up menu on the right.

Note: You cannot edit the factory-installed profiles. If you select one of these profiles, ColorCal forces you to save the new profile with a new name.

3. Select a color curve to edit from the pop-up menu in the upper-left corner.

4. To edit, drag the curve points with the mouse pointer. Output Percentage (0% to 100%) and Input Percentage (0% to 100%) update instantly on the right as you drag a curve point.

 - To add a curve point, click anywhere along the curve. ColorCal allows a maximum of 32 control points for an individual color curve.

 - To remove a curve point, drag it over another point on the color curve.

 - To undo all changes to the curve, click Revert.

 Note: The color curves you create with the Expert edit controls are similar to those used in Adobe Photoshop, but cannot be directly exchanged with curves created in Adobe Photoshop.

5. When you have finished editing all color curves (C, M, Y, and K) for the profile, click Save.

6. Enter a profile name if you want to save your changes as a new profile.

7. Click Save.

8. If you are finished editing profiles, click Done.

Note: If you edit a v1.0-style profile, the color curve editor plots density (from 0.0 to 2.0) against input percentage (0% to 100%).
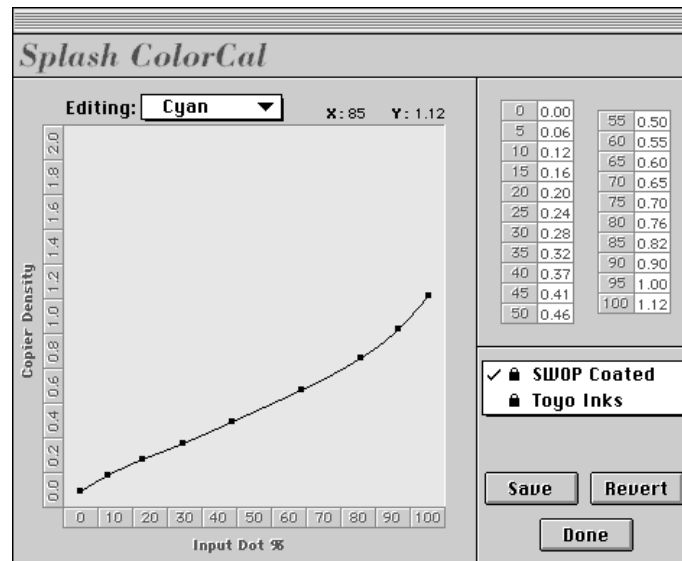
(*Technical note:* The vertical axis is in units of Status-T less the paper density. The Horizontal axis is represented as dot percentage from 0% to 100%.)

If you saved your changes as a new profile, the new profile name appears in the list of color profiles when you choose Set Active Profile in the Splash menu. Note that the new profile is automatically calibrated to the last time calibration was run as it is created.

Expert-Level Editing with ColorCal

This section describes a procedure you can use to tailor color output to your environment with the ColorCal Expert-level tools.

1. If desired, use a reliable densitometer that can read Status-T density to measure the 20 patches on the grayscale target.

2. Edit the file "Test Strip Adjust (In)" located in the Color Data folder in the ColorCal folder. Enter new visual density values based on your measurements, and save the edited file.

    The visual density values are the first numbers in each line that begins: "Kodak." The density is rounded to the nearest .001 units and is approximately 0.05 for the first patch to 1.95 for the last patch, in increments of 0.10 units. Actual measured values are typically less for the densest patches.

3. Start the ColorCal application, and select the CMYK profile you plan to modify in the Active Profiles dialog box (see page 49).

4. Calibrate the printer with ColorCal as described on page 36.

5. When calibration is complete, quit the ColorCal application and print any CMYK color file to compare with a film proof or printed material that you want to match.

    Before you print, be sure to choose the correct CMYK profile in the Color Options dialog box (see page 47).

6. Start the ColorCal application, and click "Be an Expert" to open the color curve editor.

7. Edit the color curves as described on page 54.

8. If you saved the edited profile with a new name, select the new profile in the ColorCal Active Profiles dialog box.

9. Quit the ColorCal application and print the CMYK file again.

Repeat Steps 6 to 9 until you are satisfied with the color output.

You can also use the grayscale patches on a ColorCal Verification target as a reference for adjusting curves. To do this, print a verification target in the ColorCal application (see page 45). The first row of gray patches near the right side of the page is composed of CMY colors mixed together. The second row of gray patches consists of equivalent black (K) patches. These two rows should look similar for good gray balance when you use a SWOP Coated profile. To change the data values used to create these patches, edit the "Gray Patches (In)" file.

To simulate different paper stocks, change the "paper white" by moving up the Cyan, Magenta, and Yellow curves at 0%. A typical film proof may appear slightly yellow, so moving up 0% Yellow to 0.02 density will add yellow everywhere that can be printed on the page. There will still be a white border where there is no toner on the printed page. Trim this border from your proofs to prevent the appearance that yellow is too strong.

Splash ColorCal Notes

Troubleshooting Scanner Problems

If you are unable to successfully scan the ColorCal target and complete calibration, the scanner could be malfunctioning. Refer to the manual provided with the scanner for troubleshooting information.

If you leave the scanner powered on between calibrations, be sure to turn it off and then back on before calibrating.

Failure to Accurately Calibrate

If, during the verify process immediately after calibrating, the measured curve does not closely correspond to the target curve, it may be that your printer/copier needs servicing. Splash ColorCal cannot operate properly if the printer/copier is printing unevenly or if the scanner is too far out of specification. To verify that this is the case, set the active Pass Through profile to Uncalibrated in ColorCal, then print out the full area on an A4 or 8.5"x11" page with 40% C, 40% M, and 40% Y color mix, with Splash Color Correction disabled in the Splash print driver. Examine the printed page to see if the output is an even gray with little variation. If there is significant variation, this indicates that the printer/copier needs to be serviced. If the printer/copier needs servicing, contact Xerox Service.

Managing the Profiles Folders

Splash color profiles are located in the "Splash Color Data" folder in the Preferences Folder within the System Folder. This folder contains three profiles folders:

■ **Obsolete Profiles** contains older versions of the Splash v1.0 color profiles. (If you did not upgrade from Splash v1.0 to v2.0 or v3.x, this folder is empty.) These profiles can be used with a Splash v1.0 server if needed. They are not used for Splash v2.0/3.x color correction.

■ **Old Style Profiles** contains Splash v1.0 one-dimensional color profiles that were updated for use with Splash v2.0/3.x. If you created any custom color profiles with Splash v1.0 and then upgraded to Splash v2.0/3.x, your custom profiles are updated by Splash for use with v2.0 and then placed in this folder.

■ **Calibration Sources** contains the Splash v2.0/3.x multi-dimensional color profiles.

To delete a color profile, be sure it is not selected in the Set Active Profiles dialog box (see page 49), then remove the file from the Old Style Profiles folder or Calibration Sources folder.

Setting Up the Splash Web Queue Manager

If you purchased the optional Splash Web Queue Manager, clients on a TCP/IP network can view and control print jobs at the Splash Server.

Clients can use the Splash Web Queue Manager to:

- Review the status of print jobs that were sent to the Splash Server

- Place a hold on print jobs to prevent printing

- Release a print job on hold to print

- Move print jobs up or down in the print queue

- Review and change print options for a job in the print queue

- Send graphics files (such as EPS, Acrobat PDF, and TIFF files) and text-based PostScript files to the Splash Server for printing

The Splash Web Queue Manager upgrade kit comes with all software needed to enable the Splash Web Queue Manager option at the server. Client computers must have an established Intranet or Internet connection and Netscape Navigator (version 3.0 or later) or Microsoft Internet Explorer (version 3.0 or later) installed to use the Splash Web Queue Manager.

Note: Microsoft Internet Explorer versions 3.0 and earlier do not support sending graphics or PostScript files to the Splash Server for printing.

This chapter explains how to install the Splash Web Queue Manager upgrade and how to set up the Splash Server to allow remote clients (including MacOS, Windows 3.1, Windows 95/98, Windows NT and UNIX-based systems) to connect to Splash. Refer to the appropriate *Printing to Splash...* on-line manual for instructions on how to use the Splash Web Queue Manager from a client computer.

Installing the Splash Web Queue Manager

The Splash Web Queue Manager upgrade kit is available separately as an option for the Splash DC Series v4.0 Server. The kit includes:

■   Splash Web Queue Manager Upgrade Key

■   StarNine's WebSTAR server software

In addition to the above items, you will need the Splash DC Series v4.0 software CD-ROM (provided with your Splash Server) to complete the Splash Web Queue Manager installation.

To install the Splash Web Queue Manager you will:

1.   Upgrade the Splash Server Power Macintosh with the provided Upgrade Key.

2.   Install the StarNine WebSTAR software.

3.   Install the Splash Web Queue Manager software from the Splash DC Series v4.0 software CD-ROM.

Upgrading the Splash Server

To upgrade the Splash Server:

1. Quit the Splash Server application and shut down the Splash Server Power Macintosh.

2. Unplug the Splash Key from the ADB port on the back panel of the Splash Server Power Macintosh.

3. Connect the Splash Web Queue Manager Upgrade Key to the Splash Key and to the ADB port on the Splash Server.

Upgrade Key
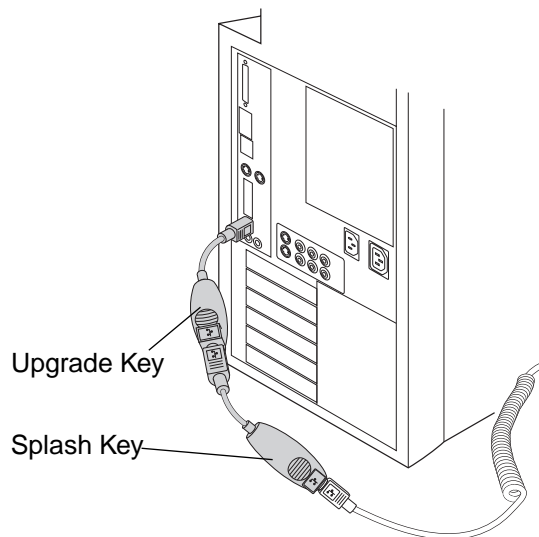
Splash Key

The mouse, keyboard, and the original Splash Key for the Splash server system should all be connected in a chain to the ADB port on the back of the Splash Server.

IMPORTANT: Do not remove the original Splash Key from the ADB chain. Before proceeding with the next step, make sure that both the original Splash Key and the Upgrade Key (and your keyboard and mouse) are all connected to the Splash server's ADB chain.

4. Start up the Splash Server Power Macintosh.

5. If the Splash Server application opens automatically when you start up the Splash Server, choose Quit from the File menu to quit the Splash Server application.

6. Open the Splash Utilities folder, then open the Splash Configuration folder.

7. In the Splash Upgrade Utility folder, double-click the Splash Upgrade icon. The Upgrade utility activates the Web Queue Manager upgrade for the Splash Server.

A message appears when the configuration has successfully completed.

8. Click OK, then choose Restart from the Special menu to restart the Splash Server.

The Splash Server upgrade is complete. You are ready to install the WebSTAR software and enable web services for the Splash Server.

After you complete the upgrade procedure, you can shut down the Splash Server Power Macintosh and remove the Upgrade Key from the ADB chain. (Do not remove the original Splash Key, and do not unplug devices from the ADB chain while the server computer is powered-up.)

Note: Once the upgrade is complete, the Upgrade Key becomes inoperative and cannot be used for additional Splash Server upgrades. If you prefer, you can leave the Upgrade Key in place.

Installing the WebSTAR Software

Follow the instructions provided with the StarNine WebSTAR package to install WebSTAR on the internal hard disk of the Splash Server Power Macintosh.

The WebSTAR installer creates a WebSTAR application folder. Splash will move this folder to another location on the Splash Server when you install the Splash Web Queue Manager software.

Installing the Splash Web Queue Manager Software

Locate the original Splash DC Series v4.0 software CD-ROM provided with your Splash Server before you begin. To install the Splash Web Queue Manager:

1. Quit the Splash Server application if it is running.

2. Insert the Splash CD-ROM in the CD-ROM drive on your computer. Open the Splash Install folder. Double-click the Splash Installer icon.

Splash Installer

The Splash Installer welcome screen appears.

3. Click Continue. The Server Easy Install dialog box appears.
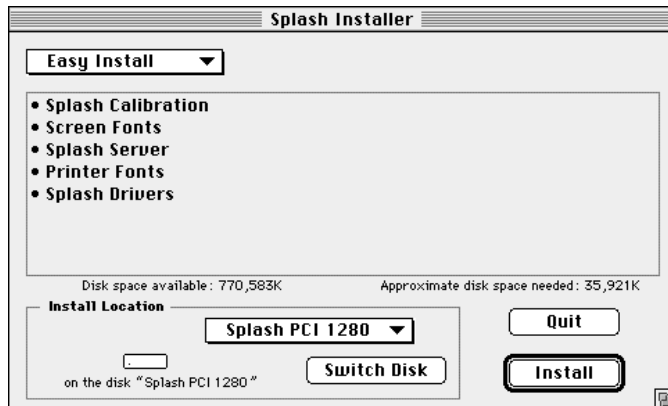
4. Choose Custom Install from the menu at the top of the Installer window. The Splash Custom Install options appear.
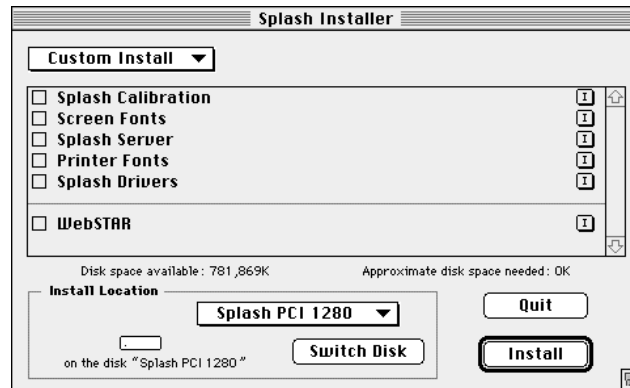
5. Select the WebSTAR checkbox, then click Install.

6. When the Splash Installer is finished copying files to the server hard disk, click Restart to restart the Splash Server Power Macintosh.

Installation of the Splash Web Queue Manager software is complete. You are ready to set up and enable web services for Internet or Intranet clients.

Setting Up the Web Queue Manager

To set up the Splash Web Queue Manager you will:

1. Configure the MacOS TCP/IP control panel.

2. Enable web access in the Splash Server application preferences.

Configuring the TCP/IP Control Panel

Use the TCP/IP control panel to set up an Internet address for the Splash Server. You will need to assign the Splash Server a static Internet address so clients can reliably locate the Splash Web Queue Manager on the network.

Note: If your Splash Server has TCP/IP Direct printing enabled, the MacOS TCP/IP control panel is already configured for the Splash Web Queue Manager. Go on to "Enabling Web Access at the Splash Server" on page 66.

Before you begin, you need to have all address information available. Obtain a static Internet address (and subnet mask number if needed) from your network administrator.

To set up an Internet address for the Splash Server:

1. At the Splash Server, point to Control Panels in the Apple menu, then select TCP/IP in the submenu.

The TCP/IP control panel appears.

2. Choose the network connection type for the Splash Server's TCP/IP network in the **Connect via** menu.

3. Select "Manually" in the **Configure** menu.

4. Enter the **IP Address** for the Splash Server.

5. Enter a **Subnet mask** number if needed. A subnet mask provides additional address information for some networks.

6. Enter the **Router address** if needed. A network router maintains a list of IP addresses for two or more groups of network devices. The router then uses the list of addresses to direct network data to the appropriate location on the network. To enter two or more router addresses, press the Return key after you enter each address.

7. Enter a **Name server address** for the DNS server on your network (for example, design.corp.com).

8. When you have finished entering network information, close the TCP/IP control panel. A dialog box asks you to confirm the new setup. Click OK.

Configuration is complete. You are ready to enable web access at the Splash Server.

Enabling Web Access at the Splash Server

1. Start the Splash Server application, then choose Preferences from the Server menu. The Splash Server Preferences dialog box appears.

2. Click **Network** at the top of the Preferences dialog box.
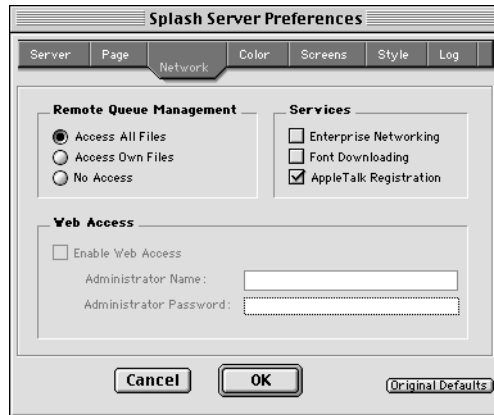
3. Under Web Access select the "Enable Web Access" checkbox.

4. Type an Administrator Name and Password into the text boxes provided.

The Administrator name and password allow a Splash administrator to remotely edit any print jobs in the Splash queues with the Web Queue Manager. The administrator name and password override the Remote Queue Management setting.

When a user logs in as the Administrator, they can change all Splash Server Preferences from the Splash Web Queue Manager.

5. Click OK.

The Splash Web Queue Manager is enabled. Clients on a TCP/IP network with Netscape Navigator or Microsoft Explorer installed can connect to the Splash Web Queue Manager to remotely view and manage print jobs on the Splash Server.

You will need to provide the Internet address for the Splash Web Queue Manager to clients so they can connect to the Splash Server over the Internet or Intranet. This address will include the IP address (or DNS assigned name) for the Splash Server (entered in the TCP/IP control panel), followed by "/splash/". For example:

```
http://design.corp.com/splashdc30/splash/
```

Controlling Remote Queue Management Privileges

The Remote Queue Management options in the Network Preferences dialog box control a client's ability to change or delete jobs in the Splash print queue. This option affects clients who use the Splash Web Queue Manager and clients who use the Macintosh Remote Status DA.

To set the Remote Queue Management option:

1. In the Splash Server application, choose Preferences from the Server menu.

2. Click Network in the Server Preferences.

3. Select a Remote Queue Management option.
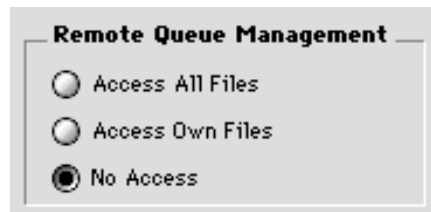
The options are.

■ **Access All Files** means that client computers can put any job on hold, delete any job, change its position in the queue, and change print options for any job.

■ **Access Own Files** means clients can hold, delete, edit, or change the position in the print queue for their own jobs only. Clients who use the Splash Web Queue Manager must log on to make changes to the print queue.

■ **No Access** means clients can view information for print jobs, but they cannot perform any queue management functions.

4. Click OK.

Using the Printer/Copier

This chapter contains helpful tips for successful printing with Splash. For complete instructions on how to use specific features of the printer/copier, refer to the DocuColor Pro user manual.

Switching Between Printer and Copier Modes

To interrupt a print job to make copies:

1. Press the Interrupt button on the printer/copier. The green Interrupt light flashes, and the display on the printer/copier tells you to wait. Printing stops when the page in the printer/copier has finished printing.

2. When the Interrupt light goes out and the display on the printer/copier says "Ready to make copies," proceed with your copy job.

3. When you finish making copies, press the yellow Clear All button. The printer/copier goes back to printer mode in a few seconds, and printing resumes where it left off.

Note: If the Interrupt light is on, and you see the message "Ready to make copies," press the Interrupt button to turn the Interrupt light off, then press the All Clear button to resume printing.

If you do not press the Clear All button in step 3, a time-out feature returns the printer/copier to the printer mode after you finish using the copier. The time-out interval is one minute, by default, but can be changed in the Splash Server application. (See the *Splash DC Series v4.0 Set-Up Manual* for more information.) If the time-out interval is allowed to pass, the Splash Server sends the next job in the queue, or the next copy of the interrupted job, to the printer.

You cannot interrupt a copy job to print, then resume the copy job where you left off once printing is completed. To cancel a copy job to print, press the Interrupt button, then press the yellow Clear All button. Printing begins immediately.

Changing the Paper Size in a Tray

Before you change a paper size in a printer/copier paper tray, choose Stop Processing on the Splash Server to avoid misprinting an active job. After you insert a different size cassette, choose Continue Processing to resume printing. Refer to the printer/copier manual for complete instructions on how to change the paper size. See the *Splash DC Series v4.0 Set-Up Manual* for instructions on how to start and stop the Splash Server.

LEF Paper Substitution Notes

If you are using Auto Tray Select, and you choose an SEF paper size that is unavailable, the Splash Server substitutes the corresponding LEF paper size. Conversely, if you choose an LEF paper size that is unavailable, the Splash Server substitutes the corresponding SEF paper. In either case, the job prints with incorrect margins and the image may be clipped.

Note: Although both A5 LEF and A5 SEF paper sizes are supported by the DocuColor copier, these sizes are not available when printing to the DocuColor from the Splash DC Series Server.

Correcting Out of Paper Errors

After a job is active, if there is no paper in the tray, Splash waits until the error timeout expires for you to add paper. A dialog box displays the amount of time you have to add paper. (The Status DA also displays a warning.) If no paper is inserted before the error timeout, you receive an error. and the job is transferred to the Error queue.

Note: The amount of time the Splash Server waits before transferring the job to the Error queue is configured in the Splash Server application. The default time is four minutes. See the *Splash DC Series v4.0 Set-Up Manual* for more information.

You receive an error message, and the job is immediately returned to the queue:

■ When you choose a specific tray in the Splash Print dialog box, and the paper size you specified in the Page Setup dialog box is not available in the tray

■ When you choose Automatic tray selection in the Print dialog box, and no tray is set for the correct size

To print the job successfully, correct the error condition, then highlight the job in the Splash Status DA or Server Status window and choose Remove Hold from the Jobs menu.

Note: When you print to the bypass tray on the DocuColor Pro, Splash waits five minutes for you to insert paper into the bypass tray.

Printing 12" x 18" Images

The Tabloid Bleed and A3 Bleed page size options print images to 12" x 18" paper. Tabloid Bleed prints full bleed for Tabloid documents, up to 11.5"x17.7". A3 Bleed prints full bleed for A3 documents up to 297mm x 435mm. If horizontal clipping occurs for a document on 12" x 18" paper, print it using the A3 Bleed paper size. If clipping does not occur for a document, print it using the Tabloid Bleed paper size.

DocuColor Pro Fuser Web Notes

If the Splash Server displays a message that the fuser web is low, this message can refer to either the fuser oil level or the fuser web for the DocuColor Pro copier. Go to the DocuColor and examine the message that appears at the copier to determine which item is in low supply.

IMPORTANT: Do not allow the fuser web to completely run out at the DocuColor Pro. This causes an internal failure at the copier. If the remaining amount of fuser web for the copier is low, contact Xerox Technical Service to replace the fuser web.

DocuColor Pro Toner Dispenser Notes

If the DocuColor Pro copier interface reports that a toner dispenser is "almost broken," contact Xerox Technical Service to replace the toner dispenser. If the toner dispenser needs to be replaced, you can continue to use the DocuColor Pro to create color photocopies, but you will not be able to print to the DocuColor Pro with Splash until the dispenser is replaced.

DocuColor Pro Servicing Notes

Before entering the Key Operator mode or the Diagnostics mode at the DocuColor Pro copier, be sure to quit the Splash Server application and shut down the server computer first. The Splash Server will lose contact with the DocuColor Pro if Key Operator mode or Diagnostics mode is opened while the Splash Server is running.

DocuColor Pro Failure Affects Server

If the DocuColor Pro copier experiences an internal failure, the Splash Server will lose contact with the printer/copier. You must restart the Splash Server computer and re-open the Splash Server application to resume print processing.

Other DocuColor Pro Notes

A6 Message on DocuColor Pro Status Panel

If there is an A6 message on the copier/printer status panel, the slider bar on the paper tray is set incorrectly. When you fix the slider bar, the job will print correctly. See your DocuColor Pro documentation for information about the slider bar.

DocuColor Pro Bookletmaker Not Supported

The Splash DC v4.0 Server does not support printing to the optional bookletmaker

Using a High-Capacity Feeder

If your copier/printer is equipped with a high-capacity feeder (HCF), you can print supported page sizes and media types through it automatically by selecting Bypass Tray as the paper source. For more information about the HCF, see your copier/printer documentation.

The page sizes supported by the Splash Server through the HCF are:

■   Letter LEF

■   A4 LEF

■   A3

■   B4

■   12" x 18"

■   Tabloid

The media types supported by the HCF and the Splash Server are:

■   Standard-weight paper

■   Heavy-weight uncoated paper

■   Hole-punched paper

■   Pressure-sensitive labels

■   Coated paper

■   Single-step transfer paper

■   Transparencies

Setting the DocuColor Pro Printer Timer

The DocuColor Pro includes two printer timer controls that affect Splash printing to the DocuColor Pro. When copy or print controls are used at the Docu-Color Pro, the Splash Server stops sending print jobs to the printer/copier until the DocuColor Pro becomes available for Splash printing again. The Printer Rejection and Printer Acceptance Timers together control the length of the pause between the time the DocuColor Pro becomes available for Splash printing and the time Splash printing resumes at the DocuColor Pro.

When the DocuColor Pro copier is set up and configured, these controls are set for a one minute delay. This is the minimum pause allowed. If delays of more than one minute occur, use this procedure to set the Printer Rejection Timer and Printer Acceptance Timer to their recommended configurations. If setting these controls does not resolve the problem, contact Xerox technical support.

To use this procedure, you must enter Tools Mode at the DocuColor Pro. Entering Tools Mode requires a password. Contact the Key Operator for the DocuColor Pro or contact Xerox technical support. For more information about Tools Mode, refer to the DocuColor Pro Operators Manual.

To set the Printer Rejection Timer and Printer Acceptance Timer:

1. Quit the Splash Server application.

2. At the DocuColor Pro, open the Tools Mode on the control screen.

3. Touch Timer in the Tools Mode screen.

4. Enter 0 (zero) minutes for the Post Job Timeout.

5. Enter 1 (one) minute for the Programming Timeout.

6. Enter 10 (ten) minutes for the Power Saver.

7. Enter 10 (ten) minutes for the Screen Saver.

8. Touch Printer Timer.

9. Enter 0 (zero) minutes for the Rejection Timer.

10. Enter 1 (one) minute for the Acceptance Timer. (Setting this to zero causes an infinite delay.)

11. Touch Save twice to save the settings and return to the Tools Mode screen.

12. Touch Exit to leave Tools Mode.

13. Open the Splash Server application to resume printing.

Disconnecting the Splash Interface Cables

To avoid risk of damage, always shut down the Splash Server and turn off power to the printer/copier before you disconnect the printer cables from the Splash Server or from the printer/copier.
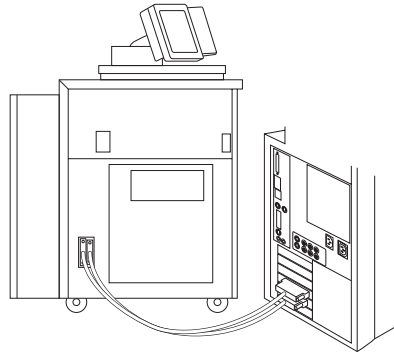
To disconnect the interface cables from the Splash Server:

1. Shut down the Splash Server, and turn off the display and all SCSI devices.

2. Turn off the printer/copier.

3. Loosen the screws that hold the cables to the interface card port on the back of the Splash Server Macintosh.

4. Gently pull the cables out of the port.

5. Restart the Macintosh and the printer/copier.

To disconnect the interface cables from the printer/copier:

1. Shut down the Splash Server, and turn off the display and all SCSI devices.

2. Turn off the printer/copier.

3. Loosen the screws that secure the interface cables.

4. Gently pull the cables out of the port on the back of the printer.

5. Restart the Macintosh and the printer/copier.

To reconnect the printer/copier to the Splash Server, see the *Splash Set-up Manual* for instructions.

Splash Specifications

Features

All Splash Servers feature:

- 32 bit full-color PostScript printing

- Selectable screen-to-print color correction for RGB images

- Press-to-print color correction for CMYK images

- Accurate color correction for files with mixed RGB and CMYK data

- Separations printing support

- Composite print color correction for PANTONE, DIC, HKS, or Toyo spot colors

- Progressives printing support

- Custom screening support

- Save as TIFF capability

- Support for PostScript Level 3-ready applications

- High-performance custom Macintosh Adobe driver, plus LaserWriter 8 support for applications that require the LaserWriter 8 driver

- Full Macintosh networking features

- Native IPX print support

- Native TCP/IP print support

- Optional Web Print Queue Management software

- Windows 95/98, Adobe custom driver for Windows 95/98, Windows 3.1, and Windows NT driver support

- Optional Web Print Queue Status software

- 136 Roman printer fonts standard

- Ability to RIP-while-print on all jobs with accelerated rendering

The Splash DC v4.0 Server features:

- 512 MB on-board memory
- 256 MB pipeline buffer memory
- 400 x 400 dpi full contone printing for all page sizes

Maximum Printing Speed

DocuColor Pro printer/copier

A3 Short Edge Feed:

- Simplex: 20 pages per minute
- Duplex: 15 pages per minute

A4 Short Edge Feed:

- Simplex: 30 pages per minute
- Duplex: 15 pages per minute

A4 Long Edge Feed:

- Simplex: 40 pages per minute
- Duplex: 30 pages per minute

Supported Paper Sizes

Splash Page Size Names	mm	inches
A3	297 x 420	11.7 x 16.5
A4 SEF	210 x 297	8.3 x 11.7
A4 LEF	297 x 210	11.7 x 8.3
A6	100 x 148	———
B4	257 x 364	———
B5 SEF	182 x 257	———
B5 LEF	257 x 182	———
Letter SEF	216 x 279	8.5 x 11
Letter LEF	279 x 216	11 x 8.5
Legal	216 x 356	8.5 x 14
Legal 13	216 x 330	8.5 x 13
9 x 12	———	9 x 12
8 x 10 LEF	———	8 x 10
4 x 6	———	4 x 6
Tabloid	279 x 432	11 x 17
Tabloid Bleed	———	11.5 x 17.7
A3 Bleed	297 x 435	———
Docupac	662x820	———

Supported Software Applications

The following Macintosh and Windows applications are tested and known to be compatible with Splash:

■ QuarkXPress

■ Adobe Illustrator

■ Adobe PageMaker

■ Macromedia FreeHand

■ Adobe Photoshop

■ Deneba Canvas

■ Microsoft Word

■ Microsoft PowerPoint

■ Microsoft Excel

■ CorelDRAW

List of Fonts

The Multi-Master fonts are:

■ AdobeSansMM

■ AdobeSerifMM

The following Adobe Roman Fonts are provided with the Splash software.

■ AlbertusMT

■ AlbertusMT-Italic

■ AlbertusMT-Light

■ AntiqueOlive-Bold

■ AntiqueOlive-Compact

■ AntiqueOlive-Italic

■ AntiqueOlive-Roman

■ Apple-Chancery

■ Arial-BoldItalicMT

■ Arial-BoldMT

■ Arial-ItalicMT

■ ArialMT

■ AvantGarde-Book

■ AvantGarde-BookOblique

■ AvantGarde-Demi

■ AvantGarde-DemiOblique

■ Bodoni

■ Bodoni-Bold

■ Bodoni-BoldItalic

- Bodoni-Italic

- Bodoni-Poster

- Bodoni-PosterCompressed

- Bookman-Demi

- Bookman-DemiItalic

- Bookman-Light

- Bookman-LightItalic

- Carta

- Chicago

- Clarendon

- Clarendon-Bold

- Clarendon-Light

- CooperBlack

- CooperBlack-Italic

- Copperplate-ThirtyThreeBC

- Copperplate-ThirtyTwoBC

- Coronet

- Courier

- Courier-Bold

- Courier-BoldOblique

- Courier-Oblique

- Eurostile

- Eurostile-Bold

- Eurostile-BoldExtendedTwo

- Eurostile-ExtendedTwo

- Geneva

- GillSans

- GillSans-Bold

- GillSans-BoldCondensed

- GillSans-BoldItalic

- GillSans-Condensed

- GillSans-ExtraBold

- GillSans-Italic
- GillSans-Light
- GillSans-LightItalic
- Goudy
- Goudy-Bold
- Goudy-BoldItalic
- Goudy-ExtraBold
- Goudy-Italic
- Helvetica
- Helvetica-Bold
- Helvetica-BoldOblique
- Helvetica-Condensed
- Helvetica-Condensed-Bold
- Helvetica-Condensed-BoldObl
- Helvetica-Condensed-Oblique
- Helvetica-Narrow
- Helvetica-Narrow-Bold
- Helvetica-Narrow-BoldOblique
- Helvetica-Narrow-Oblique
- Helvetica-Oblique
- HoeflerText-Black
- HoeflerText-BlackItalic
- HoeflerText-Italic
- HoeflerText-Ornaments
- HoeflerText-Regular
- JoannaMT
- JoannaMT-Bold
- JoannaMT-BoldItalic
- JoannaMT-Italic
- LetterGothic
- LetterGothic-Bold
- LetterGothic-BoldSlanted

- LetterGothic-Slanted

- LubalinGraph-Book

- LubalinGraph-BookOblique

- LubalinGraph-Demi

- LubalinGraph-DemiOblique

- Marigold

- MonaLisa-Recut

- Monaco

- NewCenturySchlbk-Bold

- NewCenturySchlbk-BoldItalic

- NewCenturySchlbk-Italic

- NewCenturySchlbk-Roman NewYork

- Optima

- Optima-Bold

- Optima-BoldItalic

- Optima-Italic

- Oxford

- Palatino-Bold

- Palatino-BoldItalic

- Palatino-Italic

- Palatino-Roman

- StempelGaramond-Bold

- StempelGaramond-BoldItalic

- StempelGaramond-Italic

- StempelGaramond-Roman

- Symbol

- Tekton

- Times-Bold

- Times-BoldItalic

- Times-Italic

- Times-Roman

- TimesNewRomanPS-BoldItalicMT

- ■ TimesNewRomanPS-BoldMT
- ■ TimesNewRomanPS-ItalicMT
- ■ TimesNewRomanPSMT
- ■ Univers
- ■ Univers-Bold
- ■ Univers-BoldExt
- ■ Univers-BoldExtObl
- ■ Univers-BoldOblique
- ■ Univers-Condensed
- ■ Univers-CondensedBold
- ■ Univers-CondensedBoldOblique
- ■ Univers-CondensedOblique
- ■ Univers-Extended
- ■ Univers-ExtendedObl
- ■ Univers-Light
- ■ Univers-LightOblique
- ■ Univers-Oblique
- ■ Wingdings-Regular
- ■ ZapfChancery-MediumItalic
- ■ ZapfDingbats

Splash Error Messages

Installation Messages

Some INITs and control panel devices (cdevs) can interfere with the proper installation of your Splash software, resulting in an error message when you try to start the Splash Server application. Different messages appear for conflicts caused by different inits and cdevs.

If you see an error message when you try to launch the Server application and you have just installed (or reinstalled) your Splash software (or any other software), remove any unnecessary inits and cdevs from the Extensions and Control Panels folders. (Do not remove the DocuColor Board Startup file or any of the "Splash" files from the Extensions folder; these files are required for the Server to operate properly.) Restart the Server and launch the Server application again. If this does not solve the problem, follow the instructions in "Splash Diagnostics" on page 109.

Alphabetical Listing of Error Messages

This appendix contains an alphabetical list of messages that you may encounter while using the Splash Server. The recommended user action follows each message. These messages may appear in any of the following areas:

■   Server status message area in the Splash Server window

■   Copier status message area in the Splash Server window

■   Alert dialog box

■   Log file

■   Get Info window for a job in the print queue

A timeout occurred while waiting for a sheet of paper to be manually inserted

Puts the job on hold. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Access card or code not entered properly

Enter the correct access card or code into the DocuColor printer/copier.

Add Reference failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software and restart your Server. Start up Splash and resend the job. If the error still occurs, run Splash Diagnostics.

Add Resource failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software and restart your Server. Start up Splash and resend the job. If the error still occurs, run Splash Diagnostics.

Address was odd, or out of range

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software and restart your Server. Start up Splash and resend the job. If the error still occurs, run Splash Diagnostics.

All paper trays out of paper: printer on hold

Add paper to the printer/copier and choose Continue Processing from the Server menu in the Splash Server.

An internal consistency check has failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software and restart your Server. Start up Splash and resend the job. If the error still occurs, run Splash Diagnostics.

A potentially fatal and unrecoverable condition has been detected within the software; the operation has been aborted

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software and restart your Server. Start up Splash and resend the job. If the error still occurs, run Splash Diagnostics.

Bad master directory block

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, call an Authorized Apple Repair Center.

Black toner dispenser near broken

Refer to the printer/copier manual for instructions.

Black toner low - warning

Add toner. Refer to the printer/copier manual for instructions.

Block Check failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software and restart your Server. Start up Splash and resend the job. If the error still occurs, run Splash Diagnostics.

Communication link error to the Splash card

Reconnect the cable between the copier and the server and choose Continue Processing from the Server menu in the Splash Server. If the error still occurs, run Splash Diagnostics.

Communications with the device has failed. Please check that the device is powered up and that the cables are OK

Check the power source, On button, and cables for the printer/copier. Choose Continue Processing from the Server menu in the Splash Server. If the error still occurs, run Splash Diagnostics.

Copier is warming up or in use

Stops processing of the queue. Within a specific amount of time (which you set in the printer/copier interface) after you are finished making copies, printing resumes.

Copier/printer door open: close door

Stops processing of the queue. Close the door of the printer/copier. This error can also occur if the optional sorter is not attached properly.

Copier/printer failure

Run Splash Diagnostics. Call Technical Support, if needed.

Copier/printer IFU failure

Run Splash Diagnostics. Call Technical Support, if needed.

Copier in system adjustment

Temporarily stops processing of the queue. Printing resumes automatically after system adjustment completes.

Copier is purging unusable sheets

Temporarily stops processing of the queue while the copier ejects sheets.

Cyan toner dispenser near broken

Refer to the printer/copier manual for instructions.

Cyan toner low - warning

Add toner. Refer to the printer/copier manual for instructions.

Device busy

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, run Splash Diagnostics.

Device not found

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, run Splash Diagnostics.

Drive volume already on-line at MountVol

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Driver reported an error: "%% [error text]"

A PostScript error occurred during processing. Check that all printer description files (PPDs) required by your application are properly installed, and that the proper printer description file was selected in the Page Setup or Print dialog box in your application.

If you are printing a PostScript file, try printing the file to another PostScript Level 2 printer. (If the file does not print successfully on this printer, the problem may be in your application. Contact the publisher of the application for Technical Support.)

If the file prints successfully, the PostScript file cannot be printed with Splash. Re-create the file using the Splash printer driver. (PostScript files created with other drivers may not print reliably on Splash.) See the *Printing to Splash...* on-line manuals for more information about creating and printing PostScript files to be printed with Splash.

If you still have a problem, write down the error code that appears in the brackets, then call Technical Support.

Driver reported an error: "Timed out during error condition...."

A correctable error ("out of paper," for example) was detected after the job was processed. The error was not corrected before the job timeout elapsed, so the job was returned to the queue with an error. Highlight the job, then select Remove Hold to rerun the job after ensuring the problem has been corrected.

Duplicate filename (rename) or File found instead of folder

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

End of file; no additional data in the format

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Error during font declaration

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Error in user parameter list

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Error: Not responding. Please check that the printer/copier is on and that the cable from the Splash card is properly connected.

Make sure that the printer/copier is plugged in and turned on and that the cable from the Splash Server is properly connected.

Extended resource has a bad format

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs and you have added extended resources in the Splash Folder:Resources folder, remove them, restart the Server computer and open the Server application. If the error still occurs, reinstall the Splash software and send the print job again. If the error still occurs, run Splash Diagnostics.

External file system identifier is nonzero

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

File already open with write permission

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

File is busy (delete); Section doing I/O

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

File not found; Folder not found; Edition container not found; Target not found

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

File not open

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

File system internal error: during rename the old entry was deleted but could not be restored.

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Font not declared

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Font substitution occurred

Check to make sure the font is properly installed in the Resources folder inside the Splash Folder.

Fuser oil empty

Refer to the printer/copier manual for instructions.

Fuser oil near empty

Refer to the printer/copier manual for instructions.

Fuser web almost empty

Refer to the printer/copier manual for instructions.

Fuser web empty

Stops processing of the queue. Refer to the printer/copier manual for instructions. Choose Continue Processing from the Server menu in the Splash Server after the problem is corrected.

Get file position error

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

GetHandlSize failed on baseText or substitutionText; Nil master pointer [handle was NIL in HandleZone or other]

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

I/O error

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Magenta toner dispenser near broken

Refer to the printer/copier manual for instructions.

Magenta toner low - warning

Add toner. Refer to the printer/copier manual for instructions.

Manual feed timeout

Puts the job on hold. Put paper or transparencies in bypass tray. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Memory full (open) or file won't fit (load)

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again If the error still occurs, run Splash Diagnostics.

No Splash card could be found
No Splash card could be found. Please ensure that the card is properly installed in your Macintosh.

Make sure the DocuColor Board Startup file is installed in the Extensions folder in the System folder. Remove any inits and cdevs that you do not need from your Server. Restart the Splash Server computer and open the Server application. Send the job again. If this does not solve the problem, run Splash Diagnostics (see page 109).

No such drive (tried to mount a bad drive num)

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

No such volume or volume not found

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Not a Macintosh diskette (sig bytes are wrong)

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Not returning proper status

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Offset or count out of bounds

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Operation has been aborted

Puts the job on hold. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of A3 paper

Stops processing of the queue until the error timeout is reached or until you add paper to the A3 paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of A4 paper

Stops processing of the queue until the error timeout is reached or until you add paper to the A4 paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of A4L paper

Stops processing of the queue until the error timeout is reached or until you add paper to the A4L paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of B4 paper

Stops processing of the queue until the error timeout is reached or until you add paper to the B4 paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of B5 paper

Stops processing of the queue until the error timeout is reached or until you add paper to the B5 paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of B5L paper

Stops processing of the queue until the error timeout is reached or until you add paper to the B5L paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of black toner

Stops processing of the queue. Refer to the printer/copier manual for instructions. Choose Continue Processing from the Server menu in the Splash Server.

Out of cyan toner

For color jobs, stops processing of the queue until the error timeout is reached or until you add cyan toner. After the error timeout is reached, the job is returned to the queue with an error. Add toner. Refer to the printer/copier manual for instructions. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. Grayscale jobs can still print.

Out of LetterL paper

Puts the job on hold. Add paper to the LetterL size paper tray. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Out of magenta toner

For color jobs, stops processing of the queue until the error timeout is reached or until you add magenta toner. After the error timeout is reached, the job is returned to the queue with an error. Refer to the printer/copier manual for instructions on how to add toner. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. Grayscale jobs can still print.

Out of yellow toner

For color jobs, stops processing of the queue until the error timeout is reached or until you add yellow toner. After the error timeout is reached, the job is returned to the queue with an error. Refer to the printer/copier manual for instructions on how to add toner. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. Grayscale jobs can still print.

Paper jammed

Stops processing of the queue. Splash waits for you to remove the paper jam from the printer/copier. The job automatically resumes when the paper jam is cleared. If the paper jam is not cleared, the job returns to the queue with an error after the error timeout is reached.

Paper tray 1 is not properly seated

When a job selects paper tray 1, the Server stops processing of the queue until the error timeout is reached or until you reseat the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Paper tray 2 is not properly seated

When a job selects paper tray 2, the Server stops processing of the queue until the error timeout is reached or until you reseat the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Paper tray 3 is not properly seated

When a job selects paper tray 3, the Server stops processing of the queue until the error timeout is reached or until you reseat the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Paper tray 1 out of paper

When a job selects paper tray 1, the Server stops processing of the queue until the error timeout is reached or until you add paper to the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Paper tray 2 out of paper

When a job selects paper tray 2, the Server stops processing of the queue until the error timeout is reached or until you add paper to the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Paper tray 3 out of paper

When a job selects paper tray 3, the Server stops processing of the queue until the error timeout is reached or until you add paper to the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job.

Pointer Check failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Please remove sheets from sorter

Stops processing of the queue. Splash waits for you to remove sheets in the sorter bin. The job automatically resumes when the sheets are removed. If the server's error timeout elapses before the sheets are removed from the sorter, the job is moved to the Server's Error queue.

Printer error

Quit the Splash application, restart the Server, and restart Splash. resend the job. If the error still occurs, call the key operator or Technical Support for your printer/copier.

Publisher writing to an edition

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Reference number invalid

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Remove Reference failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Remove Resource failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Resource already in memory

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Resource Attribute inconsistent with operation

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Resource file not found

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Resource Map inconsistent with operation

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Resource not found

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Selected paper size is unavailable in the tray

Stops processing of the queue until the error timeout is reached or until you add the correct size paper cassette to the paper tray. After the error timeout is reached, the job is returned to the queue with an error. Select Bypass in the Splash Tray Options dialog box. After you add the correct size paper to the bypass tray, select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. After you change the Splash Tray Options, resend the job. Select the old job from the Status DA and choose Delete from the Jobs menu to delete the old job from the queue.

Size Check failed

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Software lock on file; Not a subscriber (permissions error on file open)

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Sorter bin failure

Puts transparency jobs on hold. Paper jobs continue processing correctly. Prints are placed in the top tray. Call Technical Support for your printer/copier.

Stapler is out of staples

Refer to the printer/copier manual for instructions.

Stapler is broken

Refer to the printer/copier manual for instructions.

The application 'Splash Server' could not be opened because 'DeviceSharedLib' could not be found.

This message indicates that the "Splash Print Library" extension is missing from the Extensions folder. To resolve the problem, copy the missing extension file from the Splash Software CD-ROM into the Extensions folder within the System Folder. If this does not solve the problem, run Splash Diagnostics (see page 109).

The application 'Splash Server' could not be opened because 'FIPLib PPC' could not be found.

This message indicates that the "Splash Spool Lib" extension is missing from the Extensions folder. To resolve the problem, copy the missing extension file from the Splash Software CD-ROM into the Extensions folder within the System Folder. If this does not solve the problem, run Splash Diagnostics (see page 109).

The application 'Splash Server' could not be opened because ':obj:PowerPlantLib' could not be found.

This message indicates that the "Splash UI Lib" extension is missing from the Extensions folder. To resolve the problem, copy the missing extension file from the Splash Software CD-ROM into the Extensions folder within the System Folder. If this does not solve the problem, run Splash Diagnostics (see page 109).

The application 'Splash Server' could not be opened because 'reddog.mot' could not be found.

This message indicates that the "DocuColor Board Enabler" extension is missing from the Extensions folder. To resolve the problem, copy the missing extension file from the Splash Software CD-ROM into the Extensions folder within the System Folder. If this does not solve the problem, run Splash Diagnostics (see page 109).

The application 'Splash Server' could not be opened because 'MWRuntimeLib' could not be found.

This message indicates that the "Splash Runtime Lib" extension is missing from the Extensions folder. To resolve the problem, copy the missing extension file from the Splash Software CD-ROM into the Extensions folder within the System Folder. If this does not solve the problem, run Splash Diagnostics (see page 109).

The copier is currently in use by another application. Please quit that application and try again.

Exit the application that is using the printer/copier and resend the job.

The directory is full.

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

The disk is full

Delete unneeded files from your hard disk or add more hard disk storage.

The DocuColor Key is not valid.

This message appears when the Splash Key has been removed from the Splash server ADB chain and the Splash Server application is started. Turn power off at both the Splash Server and the DocuColor, replace the Splash Key on the Splash Server, then turn power on for the server and the printer/copier. For more information about the Splash Key, see the *Splash Setup Manual*.

The operation has been aborted by the user

Puts the job on hold. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. Select Delete from the Jobs menu in the Status DA to delete the job.

There is no further information available for this error condition. If the error continues please seek technical support

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

There is not enough available memory for the application to start up

Quit other applications. If this is not successful, add more RAM.

There is not enough disk space/memory available to complete this operation

Puts the job on hold. Delete unneeded files from your hard disk or add more hard disk storage. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. If the error still occurs, run Splash Diagnostics.

There is not enough memory to print the Job Log

This message appears at the Splash Server when the Job Log file is too big to be read into memory before it prints. This problem prevents the Job Log from printing. To resolve the problem, increase memory for the Splash Server application, or use a text editor application to open the Job Log file and delete some of the records. See the *Splash DC Series v4.0 Set-Up Manual* for information about using the Job Log.

This print requires significant work and may take a prolonged amount of time to complete

Informational notice.

Too many copies have been requested for this device

Prints the maximum amount of copies. Resend the job to print more copies. The printer/copier copy limit is 999.

Too many files open

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Transparency from trays 1, 2, or 3

Puts the job on hold. Take transparencies out of trays 1, 2, or 3. To print on paper, select Remove Hold from the Jobs menu. To print on transparencies, select a Bypass Tray Option in the Splash driver and use the bypass tray to feed transparencies. Resend the job. Select the old job from the Status DA and choose Delete from the Jobs menu to delete the old job from the queue.

Transparency without white frame detected

Puts the job on hold. Add white frame transparency or plain paper to the bypass tray. Select the job and choose Remove Hold from the Jobs menu in the Status DA to resend the job. If you have no white frame transparencies or plain paper to add to the bypass tray, choose another paper type or source in the Splash Tray Options dialog box in the Splash driver and resend the print job.

Tray size and paper setting mismatch; job printed on incorrect paper

This error appears at the Server when the Bypass Tray print option is selected together with either Sorter Collate or Sorter Uncollate print options. This results in the print job printing continuously at the printer/copier until the job is placed on hold, or the Server application is closed.

Tried to position to before start of file (r/w)

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Trying to move a locked block (MoveHHi)

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Trying to purge a locked or non-purgeable block

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Volume is off line

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Volume is locked through software

Restart the Splash Server computer and open the Server application. Send the job again. If the error still occurs, reinstall the Splash software, restart the Server computer, open the Server application and send the job again. If the error still occurs, run Splash Diagnostics.

Waiting. Key has been removed from ADB

This message appears when the Splash Key has been removed from the Splash Server ADB chain and a print job is sent to the Server. Contact your Splash system administrator to have the Splash Key replaced on the Server so your print job can be processed.

Waiting for the printer to respond

Check the power source, On button, and cables for the printer/copier. Choose Continue Processing from the Server menu in the Splash Server. If the error still occurs, run Splash Diagnostics.

Waste toner bottle almost full

Refer to the printer/copier manual for instructions.

Waste toner bottle full

Stops processing of the queue. Refer to the printer/copier manual for instructions.

Yellow toner dispenser near broken

Refer to the printer/copier manual for instructions.

Splash File Locations

The following table lists the recommended locations for the Splash files.

Software Description	File Name or File Type	Location
Spool Folder	Spool Folder	Variable, but must be kept with Server Application and Persistent Parameters.
Persistent Parameters	Persistent Parameters Folder	Variable, but must be kept with Server Application and Spool Folder.
PostScript Setup File	PostScript.VM	Splash Folder
Splash DocuColor Printer Driver	Splash DocuColor	System Folder: Extensions
Splash Macintosh Client Status DA	Splash Status	System Folder: Apple Menu Items
Splash Server Application	Splash Server	Splash Folder
PostScript Drop Folder	Drop Folder	Splash Folder
PostScript Unprintable Files Folder	Unprintable Files	Splash Folder (created when a job cannot be printed)
136 PostScript Printer Fonts (provided with Splash)	Printer Fonts (names vary)	Splash Folder:Fonts\n\nIf you add fonts to the Splash Server, install using the instructions provided with the fonts, then download the installed fonts to the Splash Server. (See the Splash Set-Up Manual for information on how to do this.)

Software Description	File Name or File Type	Location
136 PostScript Screen Fonts (provided with Splash)	Screen Fonts (names vary)	Splash Folder:Screen Fonts See note for Printer Fonts.
Server Startup Files	DocuColor Board Startup DocuColor Board Enabler Splash Spool Lib Splash Print Lib Splash Lib Splash UI Lib	System Folder: Extensions
Enterprise Networking Files	MacIPX	System Folder:Control Panels
	MacIPX AppleTalk MacIPX Ethernet MacIPX Token Ring NetWare Client Netware Client Library	System Folder: Extensions
	Enterprise Networking	Splash Folder: Extras

Splash Diagnostics

The Splash Diagnostics application provides a way to troubleshoot the Splash Interface Board quickly and accurately. Use the Splash Diagnostics application when printer output is abnormal, or when the Splash Server application fails to report an obvious error condition (for example, the printer/copier has a paper jam, or is turned off, but the error is not reported by the Server application).

Before Running Splash Diagnostics

Follow these steps before you run the Splash Diagnostics application.

1. Close the Splash Server application.

2. Turn power off for the DocuColor printer/copier.

3. Disconnect Splash Server from printer/copier.

Running the Splash Diagnostics Utility

1. *IMPORTANT: Quit the Splash Server application before running the Splash Diagnostics utility.*

2. Double-click the Splash Diagnostics icon to start the diagnostics utility. The Splash Diagnostics utility is located in the Splash Diagnostics Folder within the Splash Utilities folder on the Splash Server hard disk.

Splash Diagnostics

The Splash Diagnostics window appears.

3. Click Run.

The Reports status window shows the progress of each series of tests. When all tests have completed, the Diagnostics utility creates a file with the test results and places it in the same folder as the Diagnostics utility. If the Diagnostics utility reports errors for any tests, contact Xerox Technical Support and report the errors.

4. When the tests have completed, a message appears.

5. Click Restart. The Splash Server computer restarts.

Returning the System to Normal

After you run the Splash Diagnostics utility:

1. If you disconnected the Splash cables from the server computer or the DocuColor, reconnect the cables.

2. Turn power on for the Splash Server computer.

3. Turn power on for the DocuColor printer/copier.

4. Start the Splash Server application to resume print processing.

Troubleshooting After a Completed Test

If the Server application does not work, or if the printer/copier produces abnormal prints, even though all diagnostic tests ran successfully and xerographic copies are normal, the problem may be in the cables that connect the Splash interface card to the printer/copier. Replace the printer cables with new cables. If you still need assistance, call Xerox Technical Support.

Adobe PostScript Language Printer Addendum

Throughout this Appendix, **Reference Manual** refers to the **PostScript Language Reference Manual, Second Edition** and **Supplement** refers to the **PostScript Language Supplement for Version 2013.114**.

1.0   Device Setup

The page device parameters represent particular raster output device features or processing options; the values represent the current settings of those features or options. The *setpagedevice* operator is used to set the values of the page device parameters and the *currentpagedevice* operator is used to get the current values of these parameters.

For more information about how the *setpagedevice* operator is used to set up a raster output device, refer to section 4.11 of the **Reference Manual**.

1.1   Page Device Parameters

The following table lists all of the page device parameters present in the Xerox DocuColor Printer/Copier. The semantics for all parameters appear in the **Reference Manual** and the **Supplement**.

Key	Type	Default	For more information see:
BeginPage	proce-dure	{pop}	section 4.11.6 of the Reference Manual
/Duplex	boolean	false	section 4.11.3 of the Reference Manual

Key	Type	Default	For more information see:
EndPage	proce-dure	{exch pop 2 ne}	section 4.11.6 of the Reference Manual
ExitJamRecovery	boolean	false	chapter 2 of the Supplement
HWResolution‡	array	[400 400]	section 4.11.3 of the Reference Manual
ImagingBBox	array or null	null	section 4.11.3 of the **Reference Manual**
InputAttributes	dictio-nary	see **Input Attributes** on the next page	section 4.11.3 of the **Reference Manual**
Install	proce-dure	see **Install Procedure** at the end of this section	section 4.11.3 of the **Reference Manual**
/Jog	integer	0	section 4.11.3 of the **Reference Manual**
ManualFeed	boolean	false	section 4.11.3 of the **Reference Manual**
ManualFeedTimeout	integer	60	chapter 2 of the Supplement
Margins	array	[0 0]	section 4.11.3 of the **Reference Manual**
MediaColor	string or null	null	section 4.11.3 of the **Reference Manual**
MediaType	string or null	(ShortEdgeFeed) Note: default is dependent on the contents of the first tray.	section 4.11.3 of the **Reference Manual**

Key	Type	Default	For more information see:
MatchAll	boolean	false	section 4.11.4 of the **Reference Manual**
MediaWeight	integer or null	null	section 4.11.3 of the **Reference Manual**
NumCopies	integer or null	null	section 4.11.3 of the **Reference Manual**
Orientation	integer	0	section 4.11.3 of the **Reference Manual**
OutputDevice	name	Printer	section 4.11.3 of the **Reference Manual**
OutputFaceUp [†]	boolean	false	section 4.11.3 of the **Reference Manual**
OutputPage	boolean	true	chapter 2 of the Supplement
/PageDeviceName	null or string	null	chapter 2 of the Supplement
PageOffset	array	[0 0]	chapter 2 of the Supplement
PageSize	array	see below	section 4.11.3 of the **Reference Manual**
Policies	dictio-nary	<</PolicyNot Found1 /PageSize 0 /PolicyReport{pop}>>	section 4.11.3 of the **Reference Manual**
ProcessColorModel	name or string	/DeviceCMYK	section 4.11.3 of the **Reference Manual**

Key	Type	Default	For more information see:
/RollFedMedia	boolean	false	section 4.11.3 of the **Reference Manual**
/SeparationOrder	null or array	[/Black /Cyan /Magenta /Yellow]	chapter 2 of the Supplement
/Tumble	boolean	false	section 4.11.3 of the **Reference Manual**

‡ = value is constant, **† = value is persistent across power cycles**

InputAttributes: The entries for the slots in the *InputAttributes* dictionary correspond to the following input sources in the Xerox MajestiK Printer/Copier:

Slot number	Input Source (examples)
0	*<</PageSize [842 1191] /MatchAll false /MediaColor null /MediaType (ShortEdgeFeed)>>*
1	*<</PageSize [792 612] /MatchAll false /MediaColor null /MediaType (LongEdgeFeed)>>*
2	*<</PageSize [792 612] /MatchAll false /MediaColor null /MediaType (LongEdgeFeed)>>*

The *InputAttributes* dictionary always contains the actual installed page sizes for slots 0, 1, and 2. If the physical tray is not installed in the printer, the corresponding entry in the *InputAttributes* dictionary will be set to null. The only time this will happen for the main tray (slot 0) is when the printer is booted and the tray is not installed.

If a job is sent to the printer and the tray is removed—or the actual and software-specified tray sizes vary—a dialog box is displayed to alert the user to the problem. The PostScript Interpreter has no role in this process.

PageSize: The following paper size values are permissible for the *PageSize* key:

Paper Sizes	Paper Size Names	Non-Kanji Printers	Kanji Printers
[288 432]	4x6	40	none
[297 420]	A6	40	none
[284 420]	A6 (Gov. Post-card)	none	4040
[516 729]	B5	40	4040
[729 516]	B5L	40	4040
[720 576]	8 x10L	40	none
[595 842]	A4	40	4040
[842 595]	A4L	40	4040

Paper Sizes	Paper Size Names	Non-Kanji Printers	Kanji Printers
[612 792]	Letter	40	4040
[792 612]	LetterL	40	4040
[612 936]	Legal13	40	none
[612 1008]	Legal	40	4040
[648 864]	9x12	40	none
[728 1032]	B4	40	4040
[792 1224]	11x17	40	none
[842 1191]	A3	40	4040
[864 1296]	A3Bleed	40	4040

Note 1: The smallest page sizes and all full-bleed page sizes are supported only via the manual feed tray. These include: 4x6, A6, A6 Gov. Postcard, and A3 Bleed.

Note 2: The compatibility operator for "Government Postcard" is A6, though the page size is different than the standard A6 of non-Kanji systems.

Install Procedure

```
{{/DefaultHalftone /Halftone findresource sethalftone} stopped
{pop vmstatus pop pop 0 eq {<< /HalftoneType
1 /Frequency currentpagedevice /HWResolution get aload
pop 2 copy gt {exch pop} {pop} ifelse
{<< 300 53 400 71 600 75 1200 85 2400 133 >> exch get}
stopped {exch pop 5.6 div cvi} if /Angle 45
/SpotFunction {abs exch abs 2 copy add 1 gt
{1 sub dup mul exch 1 sub dup mul add
1 sub} {dup mul exch dup mul add 1 exch
sub} ifelse} bind readonly >> sethalftone} if}
if
% Select appropriate ColorRendering based on ProcessColorModel
currentpagedevice /ProcessColorModel known {
  currentpagedevice /ProcessColorModel get /ColorRendering fin-
dresource
}{
   /DeviceGray /ColorRendering findresource
} ifelse
setcolorrendering
% Set transfer functions
{}
dup
settransfer
```

```
dup dup dup setcolortransfer
{0.5 mul} setblackgeneration
{0.5 mul} setundercolorremoval
false setstrokeadjust} bind
```

> *Note:* The procedures shown above for "setblackgeneration" and "setundercolor removal" are for SM ICS systems only. For Xerox these procedures are empty, as shown below.

```
{} setblackgeneration
{} setundercolorremoval
```

2.0   Interpreter Parameters

The semantics for interpreter parameters appear in the **Reference Manual**. For more recent parameters and their semantics, see the **Supplement**.

2.1   User Parameters

User parameters can be altered, within reasonable limits, by any PostScript language program without requiring a password. The user parameters establish temporary policies on matters such as whether to insert new items into caches.

The *setuserparams* operator sets user parameters, and the *currentuserparams* operator reads their current values. The initial value of user parameters at the time the printer is turned on for the first time is product dependent. Unless otherwise specified, all user parameters are subject to *save* and *restore*.

The following table is a list of the user parameters present in the Xerox MajestiK Printer/Copier.

Key	Type	Default	For more information see:
AccurateScreens	boolean	*false*	chapter 3 of the **Supplement**
JobName	string	()	chapter 3 of the **Supplement**
JobTimeout	integer	0	section 3.1 of the **Supplement**

Key	Type	Default	For more information see:
MaxDictStack	integer	530	section C.1 of the **Reference Manual**
MaxExecStack	integer	10015	section C.1 of the **Reference Manual**
MaxFontItem	integer	12500	section C.1 of the **Reference Manual**
MaxFormItem	integer	100000	section C.1 of the **Reference Manual**
MaxLocalVM	integer	2147483647	section C.1 of the **Reference Manual**
MaxOpStack	integer	100000	section C.1 of the **Reference Manual**
MaxPatternItem	integer	20000	section C.1 of the **Reference Manual**
MaxScreenItem	integer	80000	section C.1 of the **Reference Manual**
MaxUPathItem	integer	5000	section C.1 of the **Reference Manual**
MinFontCompress	integer	1250	section C.1 of the **Reference Manual**
VMReclaim	integer	0	section C.1 of the **Reference Manual**
VMThreshold	integer	40000	section C.1 of the **Reference Manual**
WaitTimeout	integer	300	section 3.1 of the **Supplement**

2.2 System Parameters

System parameters, in many cases, permanently alter the overall configuration of a product. They are set using the operator *setsystemparams* and read using the operator *currentsystemparams*. In general, setting system parameters requires a password. System parameters are not subject to *save* and *restore*. Their values persist across jobs.

The following table is a list of the system parameters present in the Xerox MajestiK Printer/Copier.

Key	Type	Default	For more information see:
BuildTime ‡	integer	1194934807	section 3.2 of the **Supplement**
ByteOrder ‡	boolean	false	section C.1 of the **Reference Manual**
CurDisplayList	integer	0	section C.1 of the **Reference Manual**
CurFontCache	integer	11136	section C.1 of the **Reference Manual**
CurFormCache	integer	0	section C.1 of the **Reference Manual**
CurInputDevice	string	(%CPSI%)	section 3.2 of the **Supplement**
CurOutlineCache	integer	0	section C.1 of the **Reference Manual**
CurOutputDevice	string	(%CPSI%)	section 3.2 of the **Supplement**
CurPatternCache	integer	0	section C.1 of the **Reference Manual**
CurScreenStorage	integer	22198	section C.1 of the **Reference Manual**
CurSourceList	integer	0	section 3.2 of the **Supplement**
CurStoredScreenCache	integer	1082	section 3.4 of the **Supplement**

Key	Type	Default	For more information see:
CurUPathCache	integer	0	section C.1 of the **Reference Manual**
DoStartPage [†]	boolean	true	section 3.2 of the **Supplement**
FactoryDefaults [†]	boolean	false	section 3.2 of the **Supplement**
FatalErrorAddress [†]	integer	0	section 3.2 of the **Supplement**
FontResourceDir	string	(Fonts/)	section 3.2 of the **Supplement**
GenericResourceDir	string	(Resource/)	section 3.2 of the **Supplement**
GenericResourcePathSep	string	(/)	section 3.2 of the **Supplement**
JobTimeout [†]	integer	0	section 3.2 of the **Supplement**
LicenseID	string	LN-063-003	section 3.2 of the **Supplement**
MaxDisplayList	integer	262144	section C.1 of the **Reference Manual**
MaxFontCache [†]	integer	204800	section C.1 of the **Reference Manual**
MaxFormCache	integer	100000	section C.1 of the **Reference Manual**
MaxImageBuffer	integer	65536	section 3.2 of the **Supplement**
MaxOutlineCache	integer	65536	section C.1 of the **Reference Manual**
MaxPatternCache	integer	100000	section C.1 of the **Reference Manual**
MaxScreenStorage	integer	100000	section C.1 of the **Reference Manual**
MaxSourceList	integer	262144	section 3.2 of the **Supplement**

Key	Type	Default	For more information see:
MaxStoredScreenCache	integer	8388608	section 3.4 of the **Supplement**
MaxUPathCache	integer	300000	section C.1 of the **Reference Manual**
PageCount [†]	integer	0	section 3.2 of the **Supplement**
PrinterName [†]	string	(Splash DC v4.0) Note: string varies based upon the product.	section 3.2 of the **Supplement**
RamSize	integer	67590008	section 3.2 of the **Supplement**
RealFormat [‡]	string	(IEEE)	section C.1 of the **Reference Manual**
Revision [‡]	integer	0	section 3.2 of the **Supplement**
StartJobPassword [†]	string	()	section 3.2 of the **Supplement**
StartupMode [†]	integer	1	section 3.2 of the **Supplement**
SystemParamsPassword [†]	string	()	section 3.2 of the **Supplement**
ValidNV	boolean	true	section 3.2 of the **Supplement**
WaitTimeout [†]	integer	300	section 3.2 of the **Supplement**

product strings: The *systemdict* operators *languagelevel*, *product*, *revision*, *serialnumber*, and *version* have the following values:

String name	Type	Value
languagelevel	*integer*	*2*
product [§]	*string*	*same as PrinterName, shown above*
revision [§]	*integer*	*same as Revision, shown above*
serialnumber	*integer*	*28E01C4*
version	*string*	*2017.102*

[§] = also defined in *statusdict*

2.3   Device Parameters

Device parameters are set using the operator *setdevparams* and read using the operator *currentdevparams*. Device parameters are similar to system parameters in that they require a password, are global to the PostScript environment, and have similar persistence characteristics. As with system parameters, some of these parameters can be stored in non-volatile memory.

One property that distinguishes device parameters from both system and user parameters is that device parameters may be interdependent: the legality of a value for a given parameter might depend on the value of another parameter.

Device parameters are subdivided into sets that correspond to a particular device (*%Serial%, %disk2%*, etc.). Even if two products have the same device, the parameters in the set might differ, for example, because the hardware support for that device differs.

For %CPSI%, %CPSI_NV%, %CPSI_Pending%:

Key	Value
/Enabled	true
/HasNames	false
/Interpreter	PostScript
/On	true
/Type	Communications

For %os%

Key	Value
/Free	1341600 (value is installation dependent)
/HasNames	true
/InitializeAction	0
/LogicalSize	2076928 (value is installation dependent)
/Mounted	true
/Removable	false
/SearchOrder	2
/Searchable	false
/Type	FileSystem
/Writeable	true

For %disk0%

Key	Value
/Free	1341600 (value is installation dependent)
/HasNames	true
/InitializeAction	0
/LogicalSize	2076928 (value is installation dependent)
/Mounted	true
/Removable	false
/SearchOrder	1
/Searchable	true
/Type	FileSystem
/Writeable	true

For %macresource%

Key	Value
/HasNames	true
/InitializeAction	0
/Mounted	true
/Removable	false
/SearchOrder	0
/Searchable	false
/Type	FileSystem
/Writeable	false

For %fontset%

Key	Value
/HasNames	true
/Mounted	true
/Removable	false
/Searchable	true
/SearchOrder	10
/Type	FileSystem
/Writeable	false

3.0   Resource Categories

The following tables list the factory-installed categories and resource instances. New resources of the regular resource categories can be installed by the user. For example, the user can add font and pattern resource. The categories of implicit resources represent built-in capabilities of the interpreter. For example, the *Font-Type* category indicates that the interpreter understands types 0, 1, 3, 4,5, and 6. There are also categories used to define new categories.

Most of the instances listed in the tables below are described in the **Reference Manual** and the **Supplement**. The following information about instances is specific to the Xerox MajestiK Printer/Copier.

Category name	Instances	
ColorRender-ing	DefaultColorRendering	DeviceGray
	DeviceRGB	DeviceCMYK
	StandardRendering	
ColorSpace	**DefaultCMYK**	DefaultRGB
	DefaultGray	
Emulator	No instances defined.	

Category name	Instances	
Encoding	(JISEncoding)	(SJEncoding)
	(Ext-SJ-A-CFEncoding)	(KatakanaEncoding)
	(NotDefEncoding)	(Add-JIS12-88-CFEncoding)
	(Add-SJ-B-CFEncoding)	(Add-SJ12-88-CFEncoding)
	(EUC12-88-CFEncoding)	(EUCEncoding)
	(Ext-JIS12-88-CFEncoding)	(Ext-SJ12-88-CFEncoding)
	(HRoman83pvEncoding)	(HRomanEncoding)
	(HankakuEncoding)	(HiraganaEncoding)
	(ISOLatin1Encoding)	(JIS12-88-CFEncoding)
	(NWP-JIS12-88-CFEncoding)	(NominalJISEncoding)
	(PCHiraKataEncoding)	(PCSymEncoding)
	(SJ-A-CFEncoding)	(SJ-B-CFEncoding)
	(SJ12-88-CFEncoding)	(StandardEncoding)
Font	AvantGarde-Book	AvantGarde-BookOblique
	AvantGarde-Demi	AvantGarde-DemiOblique
	Bookman-Demi	Bookman-DemiItalic
	Bookman-Light	Bookman-LightItalic
	Courier	Courier-Bold
	Courier-BoldOblique	Courier-Oblique
	Helvetica	Helvetica-Bold
	Helvetica-BoldOblique	Helvetica-Narrow
	Helvetica-Narrow-Bold	Helvetica-Narrow-BoldOblique
	Helvetica-Narrow-Oblique	Helvetica-Oblique
	NewCenturySchlbk-Bold	NewCenturySchlbk-BoldItalic
	NewCenturySchlbk-Italic	NewCenturySchlbk-Roman

Category name	Instances	
	Palatino-Bold	Palatino-BoldItalic
	Palatino-Italic	Palatino-Roman
	Symbol	Times-Bold
	Times-BoldItalic	Times-Italic
	Times-Roman	ZapfChancery-MediumItalic
	ZapfDingbats	
Form	**No instances defined.**	
Halftone	DefaultHalftone	
HWOptions	**No instances defined.**	
OutputDevice	Printer	
Pattern	**No instances defined.**	
ProcSet	CPSI	Kanji
	AdobeScreenProcs	CPSIHalftonePhase

The following information about instances is specific to the Xerox MajestiK Printer/Copier.

Category name	Instances		
ColorRenderingType	1		
ColorSpaceFamily	CIEBasedA	CIEBasedABC	DeviceCMYK
	CIEBasedDEF	CIEBasedDEFG	DeviceGray
	DeviceRGB	Indexed	Pattern
	Separation		
Emulator	No instances defined.		
Filter	ASCII85Decode	ASCII85Encode	
	ASCIIHexDecode	ASCIIHexEncode	
	CCITTFaxDecode	CCITTFaxEncode	

Category name	Instances		
	DCTDecode	DCTEncode	
	LZWDecode	LZWEncode	
	NullEncode	RunLengthDe-code	
	RunLengthEn-code	SubFileDecode	
FMapType	2, 3, 4, 5, 6, 7, 8, 9		
FontType	0, 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 32, 42		
FormType	1		
HalftoneType	1, 2, 3, 4, 5, 6		
ImageType	1		
IODevice	%CPSI%	%CPSI_NV%	%CPSI_Pending%
	%os%	%macresource%	%fontset%
	%disk0%		
PatternType	1		

FontType: The integers *0*, *1*, *2, 3*, 4, 5, 6, 8, 9, 10, 11, 32 and 42 are the instances supported for this particular printer.

The following information about instances is specific to the Xerox MajestiK Printer/Copier.

Category name	Instances		
Category	Category	CDevProc	Charstring
	CIDFont	CMap	ColorRendering
	ColorRendering-Type	ColorSpace	ColorSpaceFamily
	ControlLanguage	Emulator	Encoding

Category name	Instances		
	Filter	FMapType	Font
	FontSet	FontType	Form
	FormType	FSupp	Generic
	Halftone	HalftoneType	HWOptions
	ImageType	IODevice	OutputDevice
	Pattern	PatternType	PDL
	ProcSet		
Generic	*No instances defined.*		

4.0   *Compatibility*

The following operators are included for compatibility with existing Level 1 Post-Script language driver software. These compatibility operators are present in Level 2 printers for compatibility purposes only and their use in PostScript Level 2 language programs is strongly discouraged.

The following compatibility operators are present in the Xerox MajestiK Printer/Copier. They appear below in two groups by dictionary.

In statusdict:

Note: The operator *sccinteractive* does not perform any operation

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In userdict:

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