

# **Xerox DocuTech 75/90 and DocuPrint 75/90 DocuSP 2.1 to 3.6 Differences Document**

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THE DOCUMENT COMPANY  
**XEROX**<sup>®</sup>

Prepared by:

Xerox Corporation

Global Knowledge and Language Services

800 Phillips Road 845-17S

Webster, New York 14580

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# DocuSP 3.6 Overview

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## Feature highlights

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This document highlights the changes and new features included in the DocuSP 3.6 software release for the DocuTech 75/90 and DocuPrint 75/90 (DT/DP 75/90) printers.

Many of these features have been added at the request of Xerox customers who have specific needs for them. Operationally, customers will find this latest version easier to use because it presents a flat, one window format with fewer tool bars and fewer layered windows.

This document covers the following changes to the DocuSP software:

- Implementation of the LCDS workflow. The majority of the LCDS workflow that has been available with the DocuPrint 1xx EPS systems is now available on all of the DocuTech 75 and 90 and the DocuPrint 75 and 90 systems.
  - Addition of the On-line Gateway interface and GroupeSet board.
  - Addition of the LCDS decomposer to process LCDS jobs.
  - Job, Queue, and Resource management features to support LCDS jobs are the same as on the DocuPrint 1xx EPS systems.
  - Off-line tape submission using the Tape Client interface.
  - Certain limitations exist on the LCDS implementation based on differences between the DocuPrint 1xx and DT/DP 75/90 printers. Refer to the LCDS section in this document for more information.
- New DocuSP graphical user interface. The new interface provides:
  - A flat, one window format with fewer tool bars, and fewer windows and levels to be opened to access features and functions.
  - Increased use of the right mouse button to easily access more options.
  - Consolidated queue display in Job Manager allowing for at-a-glance status of all active and inactive jobs.
  - Columns that allow sorts on any attribute (except the active job queue).

- Solaris 8 operating system.
- The ability to Proof a job. In addition, the following functionality for Proof is available:
  - The ability to set a Queue to automatically Proof every job submitted to the queue. This is an Override option on the queue properties.
  - The ability to set the Proof quantity to be any number of jobs. This option is available under the Setup menu, Preferences.
- Layout provides the ability to impose images in multiple combinations on a single sheet of paper to support book printing. Layout is available on the Job and Queue Properties under the Layout section, and provides a variety of image placement, rotation, and scaling to support a variety of Layout models.
- Adobe Acrobat 5.0 and PDF version 1.4 support. The most significant addition is the ability to print transparent image data. In previous versions, overlapping images were printed as opaque. Additional information on PDF version 1.4 can be found in the *Adobe PDF Reference Manual Version 3* by Adobe Systems.
- Enhanced job progress, including pages ripped, Mbytes ripped, copies requested, copies printed, sheets delivered and percentage completed.
- A new menu option, DocuSP/Restart, is available on the Solaris background menu. This option allows a restart of the DocuSP user interface in case the UI is unselectable.
- Emulation of the HP LaserJet 8000 including more resident fonts, an extended PCL 8000 command set, and support for an internal PCL custom image size.
- A native TIFF decomposer that supports multi-page TIFF files, decomposer level adjustments to support TIFF files, and enhanced performance for processing TIFF files. In previous releases, TIFF files were processed using the PostScript decomposer.
- Save Facility enhancements:
  - Automatic path creation creates the specified save location if the location requested by the job does not exist.
  - The ability to save the job as single TIFF images, one image per file (DocuSP 2.x behavior), or multiple TIFF images per file.

- Reposition Output provides the ability to pause a printing job and reposition the page currently printing to either an earlier or later page. For example, a job with 2,000 unique pages may be paused at page 999 and restarted printing at page 998 or 1001. Reposition output is also known as Space Pages or Spacing.
- The ability for VIPP users to automatically add the required start string for VIPP jobs to the DocuSP.
- A Printer Status window that displays all information related to printer operation.
- Under User Preferences, the font size of the DocuSP user interface can be increased in size for easier reading.
- Two-sided (duplex) media conflict resolution which allows the customer to determine how the second side of an image is handled if there is a conflict between the media selection for side 1 and side 2.
- Enhanced software licensing and a graphical license manager. The Xerox service representative loads all of the designated licenses and enables the licensed features during the installation of the DocuSP software.
- The ability to retain the last 50 jobs printed has been added to the Job Preferences. This feature allows the user to keep the last 50 jobs printed on the controller for modification of the job ticket and to print again.
- The following additional gateways are supported:
  - Novell NDS NetWare 4.x and 5.x as well as Novell Bindery NetWare 3.x. In addition, DocuSP 3.6 now supports Ethernet 802.2 frame types.
  - HTTP, which includes job submission to the DocuSP controller through an Internet browser using the DocuSP Web Interface. This interface also enables the user to view the DocuSP queues and queue contents.
  - Internet Printing Protocol, IPP, which is a new standard for printing over the Internet. IPP provides features to check the configuration and capabilities of a printer, submit print jobs, check the status of the printer and queued jobs, and cancel jobs in a queue. The DocuSP IPP gateway is capable of receiving and processing requests from IPP clients. The Xerox Production Print Services software version 3.6 provides IPP clients to allow job submission to DocuSP 3.6 controllers.

*NOTE: The IPP Gateway and the HTTP Gateway enhance the capabilities of the DocuSP controller by providing additional methods for job submission and for obtaining job, queue, and printer status.*

*At this time, there are known problems with the IPP and HTTP gateways that are documented in the Notes and*

*Caveats section of the DocuSP 3.6 Getting Started and XPPS 3.6 customer letter.*

- Enhanced support for SNMP including increased security and licensing.
- A new utility to configure the TCP/IP Socket gateway. The setVPS option for the Socket gateway is part of the Socket gateway setup dialog within the DocuSP interface.
- Job Manager enhancements
  - The Properties tab for a job now contains a Job Progress area showing the number of pages decomposed, number of copies requested and printed, and the number of pages printed.
  - Job Forwarding: allows the Trusted User to select any job from the Job Manager and forward it to another DocuSP 3.1 or 3.6 system.
  - DocuSP 3.6 expands the number of characters allowed in the Banner Page, Start Message, and Account Information fields.
  - The "Pages to Print" limit has been increased to 999,999.
- Reprint Manager has been moved from the Job Manager GUI. Reprint options are now accessed using the Reprint Manager icon.
- Queue Manager enhancements:
  - The ability to set a queue to automatically proof all jobs submitted to the queue.
  - The default PCL Lines per Page setting in Queue Manager, Properties, PCL is automatically updated when the queue paper size is changed. This behavior is now consistent with HP printer operation, which adjusts the default FORM value whenever the default paper size is changed. The lines per page setting can be adjusted manually on the PCL tab, and selecting the default button returns the setting to 60.
  - Ability to set the paper tray for paper feeding on a queue, regardless of the paper required by the job. This feature allows you to override the paper tray selection on a queue to print on an available paper if the paper type is not critical to the job.

- Printer Manager enhancements
  - Addition of the Stock Manager capability for the DocuTech/DocuPrint 75/90 products, which allows for the programming of specific paper stock parameters to short cut the selection of paper stock for paper trays, jobs, and queues. In addition, the Stock Manager allows stocks not used to be hidden from the user, and allows paper trays to be selected to contain only certain stocks.
  - Addition of a Printer Status under the Printer pull-down menu that displays the pertinent information related to printer operation, including the status of the paper trays and finisher options.
- Administration enhancements
  - Four additional formats available for the exported Accounting Log.
  - Automatic export and purge of the accounting log is now available. If enabled, when the log reaches 80% full, the log is automatically exported to a default file location and the log is purged.
  - An industry standard delimited database file format that allows the accounting log to be exported in a fixed semi-colon format that is standard for popular database software.
  - The “Account” field has been changed to “Department”.
- Addition of a Proof quantity selection to allow for more than one proof copy of a job to be printed.
- Addition of a Stocks and Trays tab to set system preferences dealing with paper stock, paper trays, and the handling of ordered stock. Additional features include:
  - View Columns option
  - Tray Options
    - ✓ Allow Multiple Stocks Per Paper Tray
    - ✓ Display Preferred Trays
    - ✓ Allow Tray Selection by Queue (Feed Stocks)
  - Stock Names options:
    - ✓ Enforce Unique Names
    - ✓ Allow Duplicate Names
      - Auto Generate Name Extension
      - Manually Generate Name Extension
  - Unspecified Stock Behavior enhancement

- A Debug Logging Enabled/Disabled indicator has been added.
- An updated security script has been enabled within the DocuSP software to provide enhanced security to the DocuSP. The security script is run during the DocuSP installation, and can also be run and modified by the System Administrator. Refer to the *System Guide* for further information on the security script.
- Remote control of the DocuSP can now be enabled at the DocuSP. The Remote control software is an optional package that can be purchased by the customer to provide the ability to remotely access the DocuSP from a client workstation. The Remote client software will be available in the near future.

Review the *DocuSP 3.6 Getting Started* document for notes and caveats pertaining to the software.

In addition, Xerox Production Print Services software for Windows and Macintosh version 3.6, which includes the Xerox Document Submission software and various drivers and PPDs, is also now available. For more information, review the XPPS 3.6 customer letter.

- XDS Plus, a Java-based job submission tool that can be used on any operating system supporting Java except Macintosh operating systems. The XDS Plus utility allows the user to submit jobs to a printer utilizing a job ticket.

*NOTE: The Xerox Document Submission for UNIX (XDS) has been discontinued in this release of DocuSP software. The XDS Plus is available for those customers who perform job submission from UNIX clients. Also note that the old XDS for UNIX software will not work with the DocuSP 3.6 controller due to the change in Solaris operating system.*

- XDS Printer Registration, which allows the user to add, modify, and delete entries in a file. This file is then utilized by XDS Plus for printer discovery.
- Xerox Job Ticket Converter provides the ability to convert job tickets saved in XPPS 2.x or earlier (.xjt format) to the new Xerox Printing Instruction Format (XPIF).
- XDS command line client allows a user to utilize a job ticket with a job, and submit the job via a set of commands, which are typed into a MS DOS or Unix window. The job is then submitted to the specified printer. The XDS command line client will eventually replace the Xerox Command Line Client, *print*. Both command line clients are available with the DocuSP 3.6 and XPPS 3.6.10 releases. If your customers use the Xerox Command Line Client for their standard workflow, review the *Guide to job submission using XDS Plus* for details on how to use the XDS command line client.

- The DocuSP 3.6 controller provides job submission via XDS Plus running as an applet within a client web browser. The supported browsers are Netscape Navigator 4.x and Microsoft Internet Explorer 4.x and 5.x.
- The DocuSP 3.6 controller also supports job submission through an HTTP gateway using the DocuSP Web Client supported by Microsoft Internet Explorer 4.x and 5.x only.
- Administration tool allows messages generated by the DocuSP controller or attached printer to be accessed at a client workstation. Messages include printer status, job status, controller status

*NOTE: XDS Plus job tickets are stored in the Xerox Printing Instruction Format, XPIF. The 2.7 version of the printer drivers and Xerox Document Submission software stores job tickets in ASCII format. The two types of job tickets are not interchangeable.*

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## New Graphical User Interface

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This latest release of DocuSP now runs on Solaris 8.

The DocuSP Graphical User Interface, or GUI, has been completely redesigned to eliminate the multiple layers of windows and dialogs, present a one window display, and with the use of Java create a more flexible environment.

In addition, the multiple tool bars and pull down menus have been replaced with right mouse button usage, which is more industry standard to other user interfaces and may be more familiar to your customers.

*Note: It is very important to stress to the customer the changes in the manipulation and display of the features and functions of the new DocuSP user interface. While the display is now one window, the following sections are divided by the familiar modules of Job Manager, Queue Manager, Printer Manager, and Administration and the addition of the Reprint Manager GUI to assist the customer in making the transition to the new interface.*

The following figures show examples of Job Manager, Reprint Manager, Queue Manager, Printer Manager and Administration GUI displays.

## DocuSP Graphical User Interface and Job Manager

DocuSP for DocuTech 2000 Series 75 (Walk Up User)
Help

**Printer Idle**

**RIP Idle**



**Pause  
Printing**

**Job Manager**

Reprint Ma...

Queue Man...

Printer Man...

Administrat...



For Queue: All Queues

**Job Manager**

Active Jobs **Completed Jobs**

JobID	Queue	Document Name	Sender	Submission Time	Status
24	Tahoe75hold	Microsoft Word - 35...	OJirelan	May 22, 2002 10:2...	Pending
25	Tahoe75hold	Microsoft Word - St...	OJirelan	May 22, 2002 10:2...	Pending
26	Tahoe75hold	Microsoft Word - St...	OJirelan	May 22, 2002 10:2...	Pending

3 Jobs Listed

Inactive Jobs

JobID	Queue	Document Name	Sender	Submission Time	Status
27	Tahoe75hold	Microsoft Word - S...	OJirelan	May 22, 2002 10:3...	Held By Operator

1 Job listed

# Reprint Manager

DocuSP for DocuTech 2000 Series 75 (Walk Up User)

**System Printer Setup** Help

Printer Idle  
RIP Idle



Pause Printing

---

**Reprint Manager**

Directory: /var/spool    File Filter: JobTicket

- spool
- XRxnps
- cron
- locks
- lp
- mqueue
- pkg
- print
- uucp
- uucppublic
- xerox

Name	Type	Size
0 Files Listed		

spool    0 Files Listed

**Job Manager**  
**Reprint Ma...**  
**Queue Man...**  
**Printer Man...**  
**Administrat...**



# Queue Manager

DocuSP for DocuTech 2000 Series 75 (System Administrator)

System Printer Setup Help

Printer Idle  
RIP Idle



Pause Printing

### Queue Manager

Queue	Priority	Accept	Release
saveq	50	Yes	Yes
tabs	50	Yes	Yes
Tahoe75hold	50	Yes	No
Tahoe75release	50	Yes	No

4 Queues Listed

New Queue...

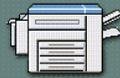
Job Manager  
Reprint Ma...  
Queue Man...  
Printer Man...  
Administrat...  
XEROX

## Printer Manager

DocuSP for DocuTech 2000 Series 75 (System Administrator)
Help

**Printer Idle**

**RIP Idle**



**Pause  
Printing**

---

 Job Manager

 Reprint Ma...

 Queue Man...

 Printer Man...

 Administrat...

X

XEROX

**Printer Manager**

Paper Tray
Stock Setup
Finishing
Stacking
Image Quality

Tray		Stock Name	Size	Color	Type	Weight
1; 		Unspecified1	US Letter (8.5 x 11")	White	Plain	75 gsm
2; 		Unspecified2	US Letter (8.5 x 11")	White	Plain	 75 gsm
3; 		Unspecified3	US Legal (8.5 x 14")	White	Plain	75 gsm
4; 		Unspecified4	US Ledger (17 x 11")	White	Plain	75 gsm
5; 		Unspecified5	US Letter (8.5 x 11")	White	Plain	75 gsm
6; 		Unspecified7	US Letter (8.5 x 11")	White	Plain	75 gsm

# Administration

DocuSP for DocuTech 2000 Series 75 (System Administrator)

**System Printer Setup** Help

Printer Idle  
RIP Idle

  Pause Printing

---

**Administration**

Accounting | **Billing** | PostScript/PCL Fonts

LOG: Job ID Job Information

Accounting Log: Entire Log

```

25:32          Container ID = 32
25:32          Record status = Complete
25:32          Document Name = Microsoft Word - Differ final orilee
25:32          Sender Name = OJirelan
25:32          Recipient = OJirelan
25:32          Disposition = Print
25:32          Job Status = Completed
25:32          Interrupt Status = No Interruption
25:32          Print Server Name = Tahoe75
25:32          Virtual Printer = Tahoe75hold
25:32          Printer Type = Xerox DocuTech 2000 Series 75
25:32          Job Source = LPR
25:32          Job Submission Date = May 29, 2002 15:32:26
25:32          Input File Size (bytes) = 19142882
25:32          PDL Format = PostScript
25:32          Start RIP Time = May 29, 2002 15:35:24
25:32          Stop RIP Time = May 29, 2002 15:35:46
25:32          Elapsed RIP Time (seconds) = 22
25:32          Number Pages RIPPed = 1
25:32          Print Start Date = May 29, 2002 15:35:24
25:32          Print Completion Date = May 29, 2002 15:36:14
25:32          Pages To Print = 1 - End of job
25:32          Collate Mode = Yes
25:32          Copies Requested = 1
25:32          Copies Printed = 1
25:32          Total Copies Requested = 1
    
```

Accounting Log: Enabled - 25 of 25 Accounting Log Entries Displayed

**View Options**

- Log Entries
  - All
  - From [ ] To [ ]
- Job ID
- View [ ]

Redis...  
Optio...  
Print...  
Purge...  
Expor...

**Job Manager**  
**Reprint Ma...**  
**Queue Man...**  
**Printer Man...**  
**Administrat...**

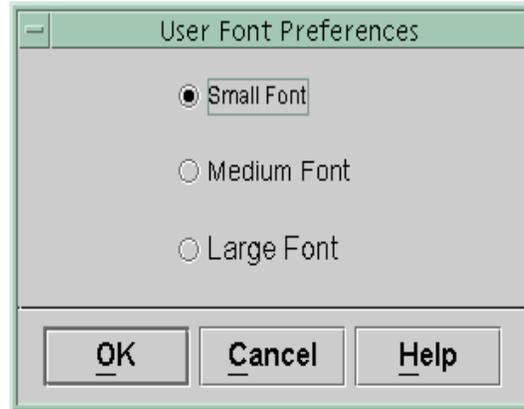


## GUI Font Size

---

The 3.6 DocuSP GUI displayed font size can be adjusted by the Trusted User. This gives the typical user the ability to make the fonts small, medium or large. The default setting is small.

*NOTE: The DocuSP controller must be restarted for a change of User Font Preference to take effect.*



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## System Level enhancements

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The following is a list of overall system level enhancements that have been implemented in the DocuSP 3.6 release. Review these options with the printer operator and system administrator.

### Proof

---

The ability to Proof a job is now available. In addition, the following are enhancements to the Proof capability:

- The ability to set a queue to automatically proof all jobs submitted to the queue by setting the Auto Proof property on the Properties tab for the queue.
- The ability to set the number of proof sets to more than 1 if desired. In DocuSP 3.6, under Setup > Preferences > Job Policy, the Proof quantity can be set to any number desired.

### TIFF decomposer and Multi-page TIFF files

---

Prior to DocuSP 3.6, the controller utilized a conversion tool (TIFF to PostScript) to process and print TIFF files. In DocuSP 3.6, a native TIFF decomposer has been implemented to directly process TIFF files for printing, improving the TIFF printing performance for certain types of files. Decomposer level adjustments are also now available for the TIFF decomposer at the queue level.

In addition, single TIFF files can now contain multiple TIFF images. In prior releases, if a TIFF file contained more than one TIFF image, only the first image in the file would be processed and printed.

### Auto Path Creation:

---

If the job specifies a save path within the default save repository that does not exist, the Save Facility software now automatically creates the path and saves the job in that new location.

Job Properties for job: 25

PostScript/PDF Exception Page Inserts Covers Time Stamps Faulted Ineligible

Properties Stock Output Image Shift ASCII

**Properties**

Name

**Pages To Print**

All   To

Format      Quantity

PostScript      1

**Destination**

Print  
 Save

Save Format

Single-page TIFF  
Single-page TIFF  
Multi-page TIFF

**Notes**

Sender Name

Recipient Name

Source File

Account Info

Banner Page Message

Start Message

**Printing Progress**

Bytes Ripped:

Pages Ripped:

Total Pages Printed:

Sets Completed:  of

Pending

Previous Job  
 Next Job

## Enhanced PCL emulation:

---

The DocuSP controller now supports emulation of the HP LaserJet 8000, which includes:

- Support for PCL5e 8000.
- More resident PCL fonts.
- An extended PCL command set. Customers should refer to the HP PCL Comparison Guide for more information. In addition, PCL customers may see some behavior changes and should refer to the Comparison Guide for assistance.
- Support for the internal PCL custom image size. This release introduces the ability to define any sized image for decomposition.

## Job Printing Progress messages :

---

The Properties dialog for Active Jobs now contains a Printing Progress section, which details the following information:

- Number of megabytes ripped. This is useful in color products.
- Number of pages ripped or decomposed.
- Number of sets (copies) requested
- Number of sheets delivered; this status will update at the cycle down and set boundaries. This status is the most useful for error recovery for very long jobs.

Job Properties for job: 29

**Properties**

Name

**Pages To Print**

All   To

Format      Quantity

PostScript    1

**Destination**

Print  
 Save

Save Format  
Single-page TIFF

**Notes**

Sender Name

Recipient Name

Source File

Account Info

Banner Page Message

Start Message

**Printing Progress**

Bytes Ripped:

Pages Ripped:

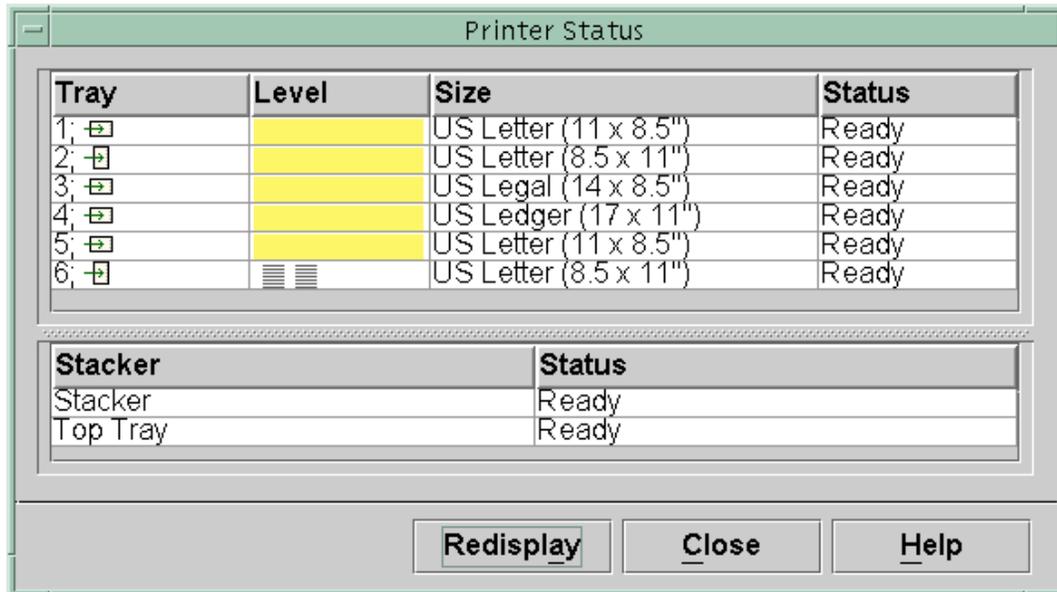
Total Pages Printed:

Sets Completed:  of

Successfully Completed

## Printer Status

Under the Printer pull-down menu is a new item called Printer Status. The controller will display all pertinent information related to printer operation in one window. This window includes the status of the paper trays and finisher options.



The screenshot shows a window titled "Printer Status" with a table of tray information and a stacker status section. The tray table has columns for Tray, Level, Size, and Status. The stacker section has columns for Stacker and Status.

Tray	Level	Size	Status
1:		US Letter (11 x 8.5")	Ready
2:		US Letter (8.5 x 11")	Ready
3:		US Legal (14 x 8.5")	Ready
4:		US Ledger (17 x 11")	Ready
5:		US Letter (11 x 8.5")	Ready
6:		US Letter (8.5 x 11")	Ready

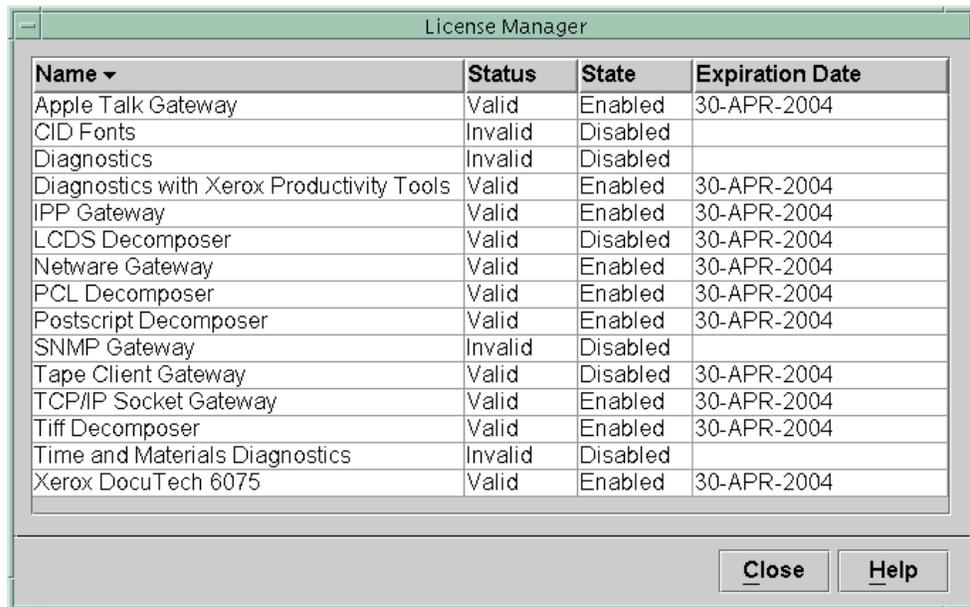
Stacker	Status
Stacker	Ready
Top Tray	Ready

Buttons: **Redisplay**, **Close**, **Help**

## Software licensing:

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In order to meet customer demands for more flexibility in system functionality, more options now require licenses to be active. In addition, the licensing capability is now a graphical user interface dialog available on the Setup pull-down menu. Typically, the Feature Licenses utility is not used by the customer except in cases where the customer would update an already existing license string. The Xerox service representative would active the licenses for those options requested by the customer during the sale process.



Name ▾	Status	State	Expiration Date
Apple Talk Gateway	Valid	Enabled	30-APR-2004
CID Fonts	Invalid	Disabled	
Diagnostics	Invalid	Disabled	
Diagnostics with Xerox Productivity Tools	Valid	Enabled	30-APR-2004
IPP Gateway	Valid	Enabled	30-APR-2004
LCDS Decomposer	Valid	Disabled	30-APR-2004
Netware Gateway	Valid	Enabled	30-APR-2004
PCL Decomposer	Valid	Enabled	30-APR-2004
Postscript Decomposer	Valid	Enabled	30-APR-2004
SNMP Gateway	Invalid	Disabled	
Tape Client Gateway	Valid	Disabled	30-APR-2004
TCP/IP Socket Gateway	Valid	Enabled	30-APR-2004
Tiff Decomposer	Valid	Enabled	30-APR-2004
Time and Materials Diagnostics	Invalid	Disabled	
Xerox DocuTech 6075	Valid	Enabled	30-APR-2004

Close Help

---

## Stock Management

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The Stock management feature has been available since DocuSP 2.1, but improvements have been made to this feature throughout the 3.x releases.

### The Stocks and Trays tab:

---

The Stocks and Trays tab is used to customize Stock Management on the DocuSP 3.6 system



➤ **View Columns:**

Allows the customer to set a group of configurable items for display in the Stocks and Trays tab. All check boxes are marked as default and include Comment, Cleanup, Size, Color, Type, Drilled, Weight, and Route. The Stock Name selection is not selectable by default.

➤ **Options:**

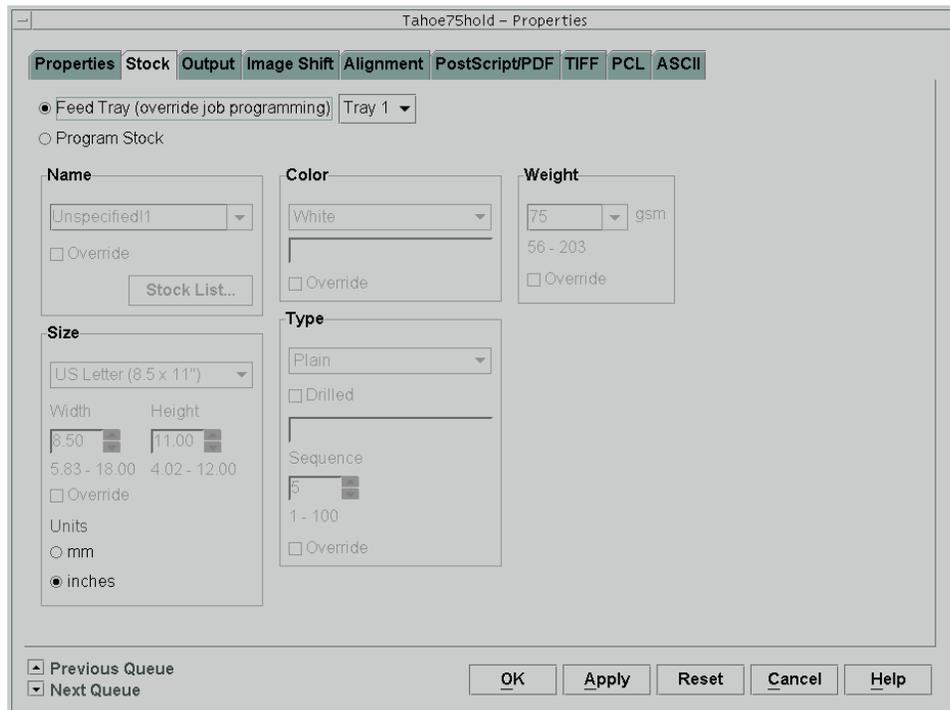
- **Allow Multiple Stocks Per Paper Tray** – Allows a customer to enable or disable the “Append” feature on a tray. If this feature is disabled, the “Append/Remove” options will not appear in the Stock Setup screens.
- **Display Preferred Trays** – If enabled this feature allows the customer to select a preferred tray destination for special stock requirements. This can be helpful with carbonless stock where a vacuum-feed tray is preferred over a friction-fed tray. Also, pre-printed forms have preferred trays and orientations. This feature allows or disallows this designation.

➤ **Allow Tray Selection By Queue (Feed Stocks)**

DocuSP 3.6 provides a new Queue Manager > Stocks and Trays option that allows the customer to feed media from a specific tray as an alternative to specifying Paper Stock. Enabling the Allow Tray Selection By Queue feature performs an override to a job’s properties.

This feature allows a user to "force feed" from a tray, no matter what programming is on a job. The key advantage of this option is to obtain a print of a job without running on other more expensive stocks. It is also be useful when the customer simply doesn't have a preference about which stock a job is run on.

The user can access this option in Setup: Preferences: Stocks and Trays.



### Stock Names:

Allows the customer to set duplicate stock name rules.

- **Enforce Unique Names** – Selecting this option allows the customer to create unique names for each stock. Duplicate stock names are not permitted when this is enabled.
- **Allow Duplicate Names** – Selecting this option allows the customer to create multiple stocks using the same name. This is useful when the paper type the customer is using is differentiated by size only. When enabled the following two options become available on the GUI:
  - ✓ **Auto Generate Name Extension** – Selecting this option automatically appends an exclamation character followed by a number to each duplicate stock name entry in the database. (I.e., Hammermill!1, Hammermill!2).
  - ✓ **Manually Generate Name Extension** – Selecting this option requires the customer to create a name extension for a duplicate stock entry.

#### ➤ **Stock Comments icon:**

This is a new attribute for all printers. Stock Comments are displayed as "tool tips" when the mouse pointer hovers over the comment icon (🗒). A comment icon appears only if comment text has been entered for a given stock. The comments are entered in the Stock Properties or New Stock dialogs.

### Unspecified Stock Behavior:

---

In prior releases of DocuSP, the customer was forced to define a tray containing "Unspecified" stock. The typical customer would send files into the system without a "Stock Name" because PostScript and PCL do not have a concept of "Stock Name". Instead, it uses the stock attributes Size, Type and Color. The "Unspecified" stock name had to be defined.

In the DocuSP 3.6 release, the Stock Name does not need definition.

---

## Job Size Limitation

---

In DocuSP 3.6 the outQ size limit has been extended to scale with the hard drive. The outQ size can now be multiple gigabytes. For example, this allows 2-N printing of a job greater than 20,000 pages. Previous versions of DocuSP restricted the outQ size to match Solaris operating system memory limits. Recent Solaris operating system versions support the larger outQ size.

The outQ is a designated area on the DocuSP controller hard drive that is used to hold a job after it has been processed and prior to or while it is being sent to the printer. The outQ cannot be accessed by the customer.

---

## Banner Page Message field expanded

---

In DocuSP 3.6, the number of characters allowed in the Banner Page field has been expanded from the previous restriction of 100 characters. In some customer workflows, the banner page message is used to relay complex job programming instruction and the 100-character limit was too restrictive.

The Start Message and Account Information fields have also been expanded from 100 and 12 character limits, respectively.

The screenshot shows the 'Job Properties for job: 25' dialog box. The 'Properties' tab is selected, and the 'Output' sub-tab is active. The 'Banner Page Message' field is expanded, showing a large text area for input. Other fields include 'Name' (Microsoft Word - StockGroupoverview.doc), 'Pages To Print' (All checked, 1 page), 'Format' (PostScript), 'Destination' (Print selected, Save Location... button, Save Format: Single-page TIFF), and 'Notes' (Sender Name: QJirelan, Recipient Name: QJirelan, Source File, Account Info, Start Message). The 'Printing Progress' section shows Bytes Ripped, Pages Ripped, Total Pages Printed, and Sets Completed. The status is 'Pending'. Buttons at the bottom include Previous Job, Next Job, OK, Apply, Reset, Cancel, and Help.

## Pages-to-Print Page Range Increased

There has only been a theoretical job size limit on DocuSP since inception. However, there were practical disk space limits in earlier releases. These technological and hardware limits have been removed over the years. In fact, customers have become so successful printing large jobs that in DocuSP 3.6 the "Pages to Print" limit has been increased from 99,999 to 999,999.

Job Properties for job: 25

PostScript/PDF Exception Page Inserts Covers Time Stamps Faulted Ineligible

Properties Stock Output Image Shift ASCII

**Properties**

Name  
Microsoft Word - StockGroupoverview.doc

**Pages To Print**

All  1 To 999,999

Format Quantity  
PostScript 1

**Printing Progress**

Bytes Ripped:   
Pages Ripped:   
Total Pages Printed:   
Sets Completed:  of

**Destination**

Print  
 Save

Save Location...  
Save Format  
Single-page TIFF

**Notes**

Sender Name  
Ojirelan

Recipient Name  
Ojirelan

Source File

Account Info

Banner Page Message

Start Message

Pending

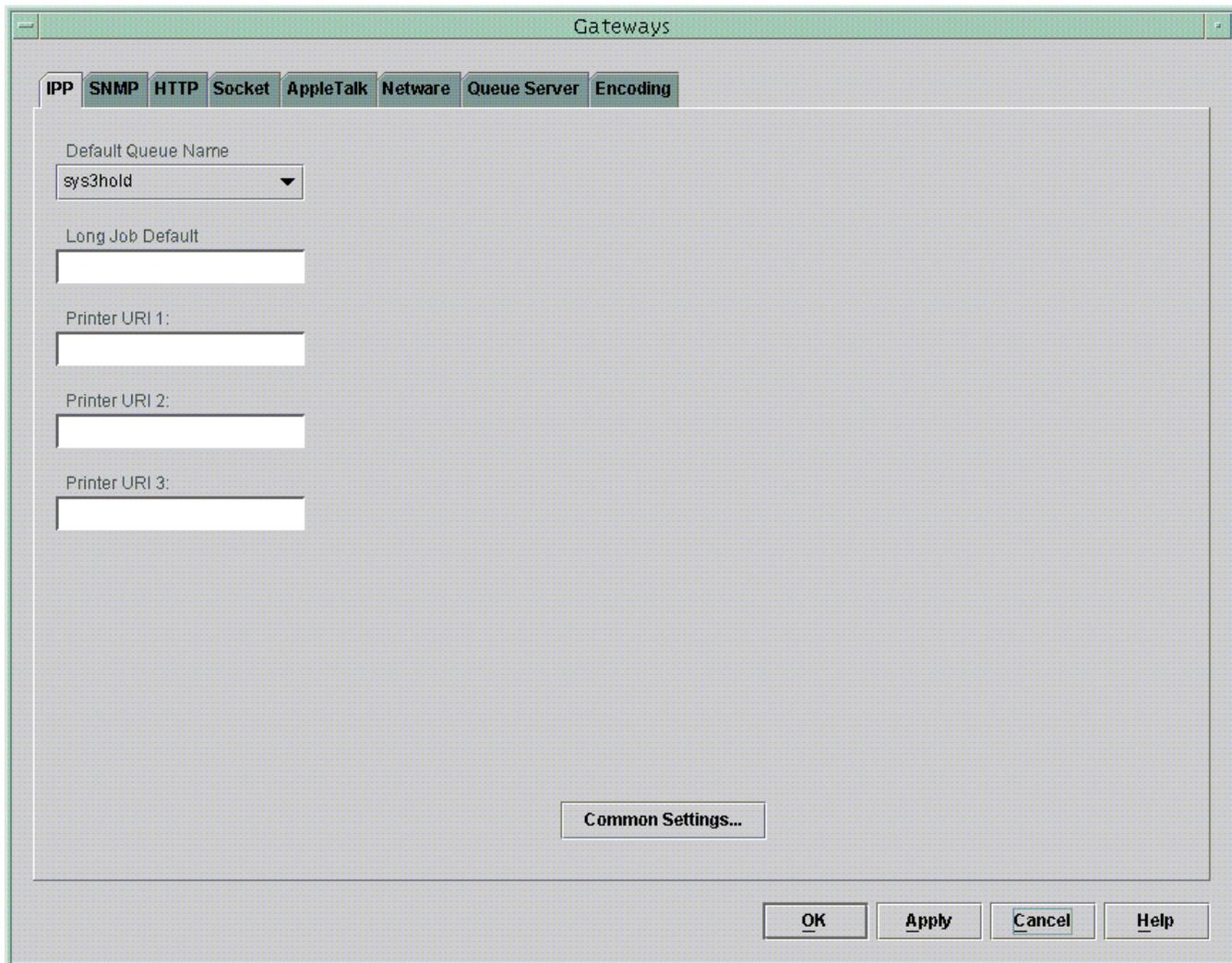
Previous Job  
Next Job

OK Apply Reset Cancel Help

## Gateways – IPP, HTTP, SNMP, Novell NetWare

This release provides additional networking capability for the DocuSP controller.

The Gateway setup has moved and is now located on the Setup pull-down menu from the top DocuSP menu bar.



The screenshot shows a window titled "Gateways" with a tabbed interface. The "IPP" tab is selected. The window contains the following fields and controls:

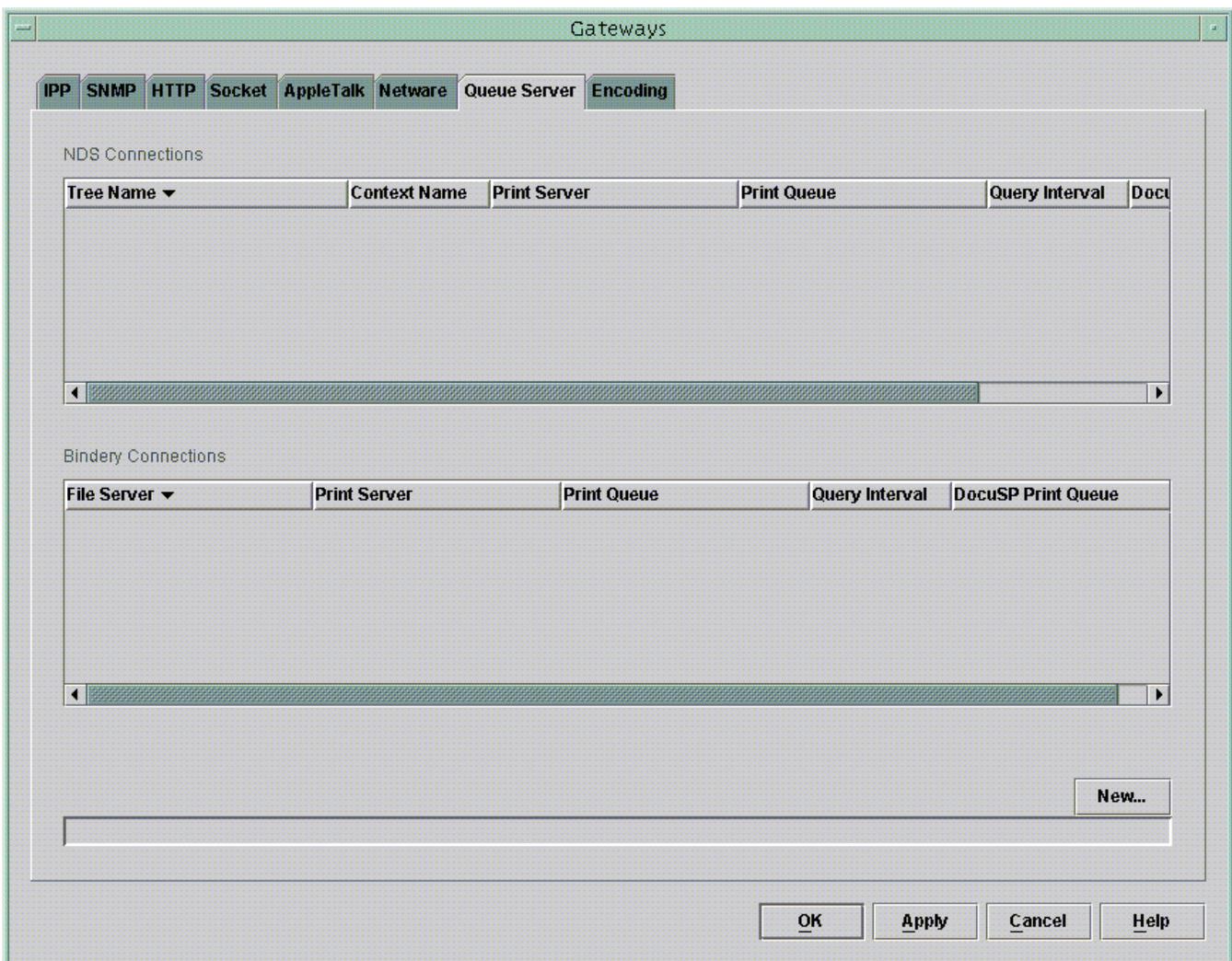
- Default Queue Name:** A dropdown menu with "sys3hold" selected.
- Long Job Default:** An empty text input field.
- Printer URI 1:** An empty text input field.
- Printer URI 2:** An empty text input field.
- Printer URI 3:** An empty text input field.
- Common Settings...:** A button located at the bottom center of the main content area.
- Buttons:** "OK", "Apply", "Cancel", and "Help" buttons are located at the bottom right of the window.

## Novell NetWare

The DocuSP 3.6 NetWare gateway now supports NDS and Bindery emulation connections. The NetWare gateway also provides support for IPX over the Ethernet 802.2 frame type. These additions now make the DocuSP NetWare gateway compatible with NetWare 3.x, 4.x and 5.x.

The procedure for setting up the Novell NetWare gateway is the same as in DocuSP 2.1. The Queue Server set up now supports both the NDS and Bindery connections.

The only difference in the set up is that when NDS is selected, the System Administrator needs to provide the Tree Name and Context Name.



## IPP

The DocuSP 3.6 supports the Internet Printing Protocol, IPP, which is a new standard for printing over the Internet. IPP provides features to check the configuration and capabilities of a printer, submit print jobs, check the status of the printer and queued jobs, and cancel jobs in a queue.

The DocuSP IPP gateway is capable of receiving and processing requests from IPP clients. The Xerox Production Print Services software version 3.6 provides IPP clients to allow job submission to DocuSP 3.6 controllers.

*Note: At this time, there are known problems with the IPP and HTTP gateways which are documented in the Notes and Caveats section of the DocuSP 3.6 Getting Started and XPPS 3.6 customer letter.*

*Xerox encourages your customers to evaluate these new gateways and how they might enhance their printing workflows. Any and all feedback is welcome and appreciated.*

The screenshot shows a window titled "Gateways" with several tabs: IPP, SNMP, HTTP, Socket, AppleTalk, Netware, Queue Server, and Encoding. The "IPP" tab is selected. Inside the window, there are the following fields and controls:

- Default Queue Name:** A dropdown menu with "sys3hold" selected.
- Long Job Default:** An empty text input field.
- Printer URI 1:** An empty text input field.
- Printer URI 2:** An empty text input field.
- Printer URI 3:** An empty text input field.
- Common Settings...:** A button located at the bottom center of the main content area.
- OK, Apply, Cancel, Help:** A row of four buttons at the bottom right of the window.

## HTTP

---

The HTTP gateway allows the DocuSP controller to be accessed via a web browser for printer status and document submission processes.

Refer to the *Xerox Document Services Platform Series Guide to Using the DocuSP Web Interface* for more information.

## SNMP

DocuSP 3.6 provides enhanced SNMP support.

The SNMP gateway in DocuSP 3.6 now requires a standard FlexLM license in the same manner as the other gateways. The CSE must enable the license at installation.

In License Manager, the System Administrator may now enable or disable the SNMP gateway.

Refer to the *System Guide* for more information on the supported MIBs.

Gateways

IPP **SNMP** HTTP Socket AppleTalk Netware Queue Server Encoding

Printer ID:  
Unknown

**Traps**

	Address	Printer Alert	Cold Start	Warm Start	Link Up	Link Down	Authentication Fai...
1							
2							
3							
4							
5							
6							

Trap Client Lifetime: 300  
Trap Client Interval: 60  
Fault Filename:   
Fault Mapping Filename:

Trap Polling Time: 60  
Packet Wait Time: 10  
Number of Trap Parameters: 6

Read Community String: public  
Write Community String: private  
Trap Community String: SNMP-trap

SNMP Serial Numbers... Common Settings...

OK Apply Cancel Help

## Job Manager

The Job Manager window now contains two tabs:

### Active Jobs tab:

The Active Jobs tab lists all of the jobs in the queues with an active status. Job Manager defaults to this display, allowing the user quicker access to all active jobs in the queues. The bottom pane of the Active Jobs tab contains the list of **Inactive Jobs**, jobs that are ineligible, faulted, or held by the operator.

System Printer Setup

DocuSP for DocuTech 2000 Series 75 (Walk Up User)

Printer Idle  
RIP Idle

Pause Printing

Job Manager

For Queue: All Queues

Active Jobs Completed Jobs

JobID	Queue	Document Name	Sender	Submission Time	Status
24	Tahoe75hold	Microsoft Word - 35...	OJirelan	May 22, 2002 10:2...	Pending
25	Tahoe75hold	Microsoft Word - St...	OJirelan	May 22, 2002 10:2...	Pending
26	Tahoe75hold	Microsoft Word - St...	OJirelan	May 22, 2002 10:2...	Pending

3 Jobs Listed

Inactive Jobs

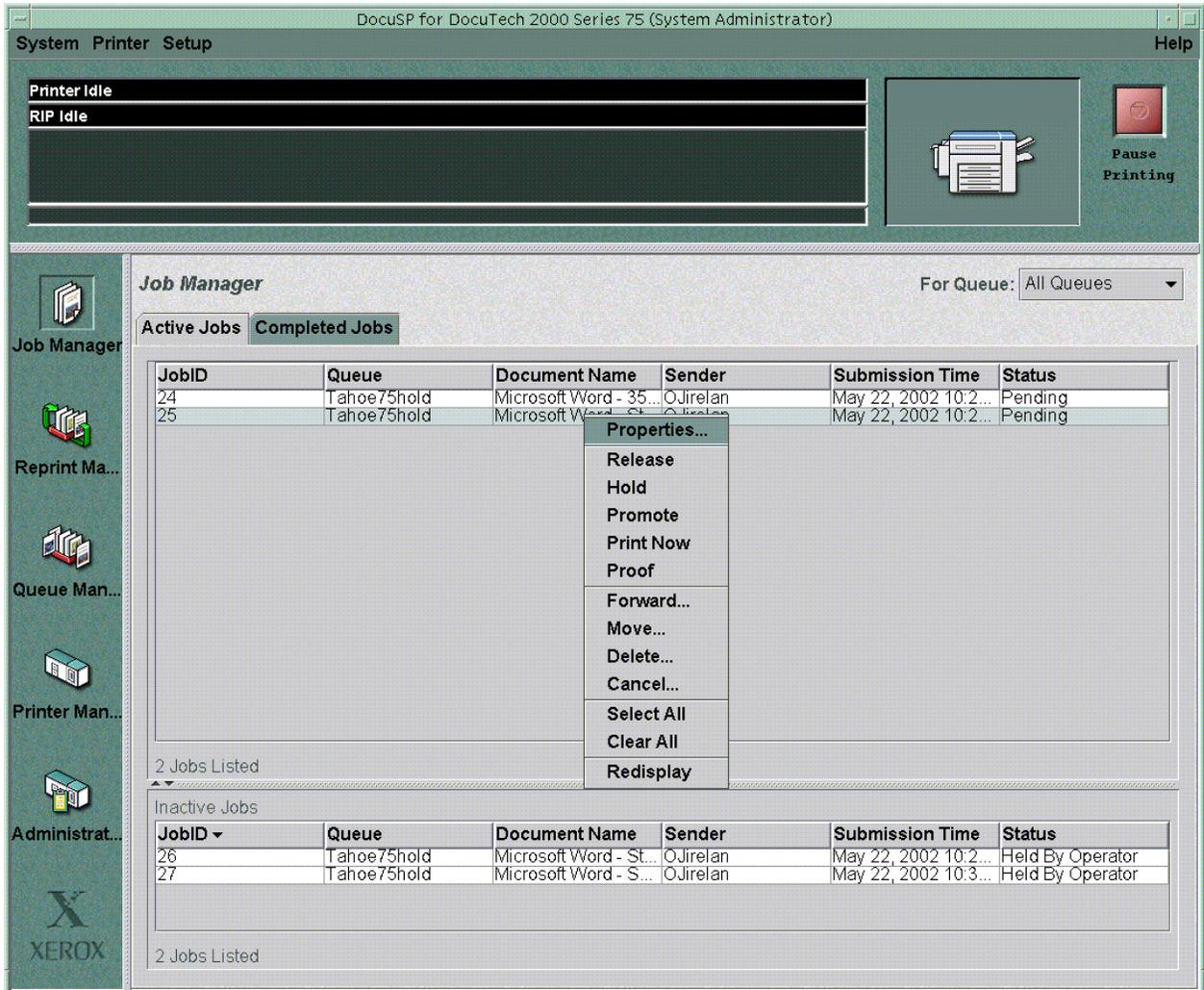
JobID	Queue	Document Name	Sender	Submission Time	Status
27	Tahoe75hold	Microsoft Word - S...	OJirelan	May 22, 2002 10:3...	Held By Operator

1 Job listed

XEROX

To view or change the properties of a job, place the cursor over the desired job and press the right mouse button. A pull-down menu is displayed. Select Properties. Or, as a short cut, simply double click the left mouse button on the selected job and the Properties screen is displayed.

If the job is faulted or ineligible, the Faulted or Resources Required tabs are the default displays respectively, reducing the amount of navigation required.



## **Completed Jobs tab:**

The Completed Jobs tab lists all jobs that have completed printing. The display will show a total of 500 jobs; when the completed jobs list is full, the oldest jobs are deleted from the list as new jobs are added.

*Note: The maximum number of jobs available in the Completed Jobs field is reduced from 500 to 50 when Retain PDL Files of last 50 jobs is enabled. When the 50 jobs limit has been reached, the DocuSP controller will automatically delete jobs as new jobs are added to the system. The oldest job is deleted first.*

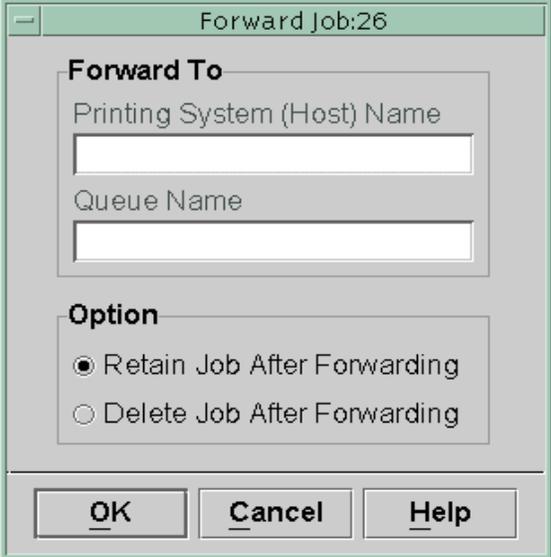
## Job Forwarding

---

The ability to forward a job from one DocuSP system to a second DocuSP system is an added feature of DocuSP 3.6. Job Forwarding allows the Trusted User to select any job from the Job Manager and forward it to another DocuSP 3.1 or 3.6 system.

### Using Job Forwarding:

To open the Job Forwarding GUI, select Forward from the Right-click menu in the Job Manager: Active Jobs tab. You can also select a job from the Completed Jobs list if Retain PDL files of the last 50 jobs is enabled. This is discussed later in this document. See figure, Job Manager Menu on previous page.



The screenshot shows a dialog box titled "Forward Job:26". It is divided into two main sections. The first section, "Forward To", contains two text input fields: "Printing System (Host) Name" and "Queue Name". The second section, "Option", contains two radio buttons: "Retain Job After Forwarding" (which is selected) and "Delete Job After Forwarding". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

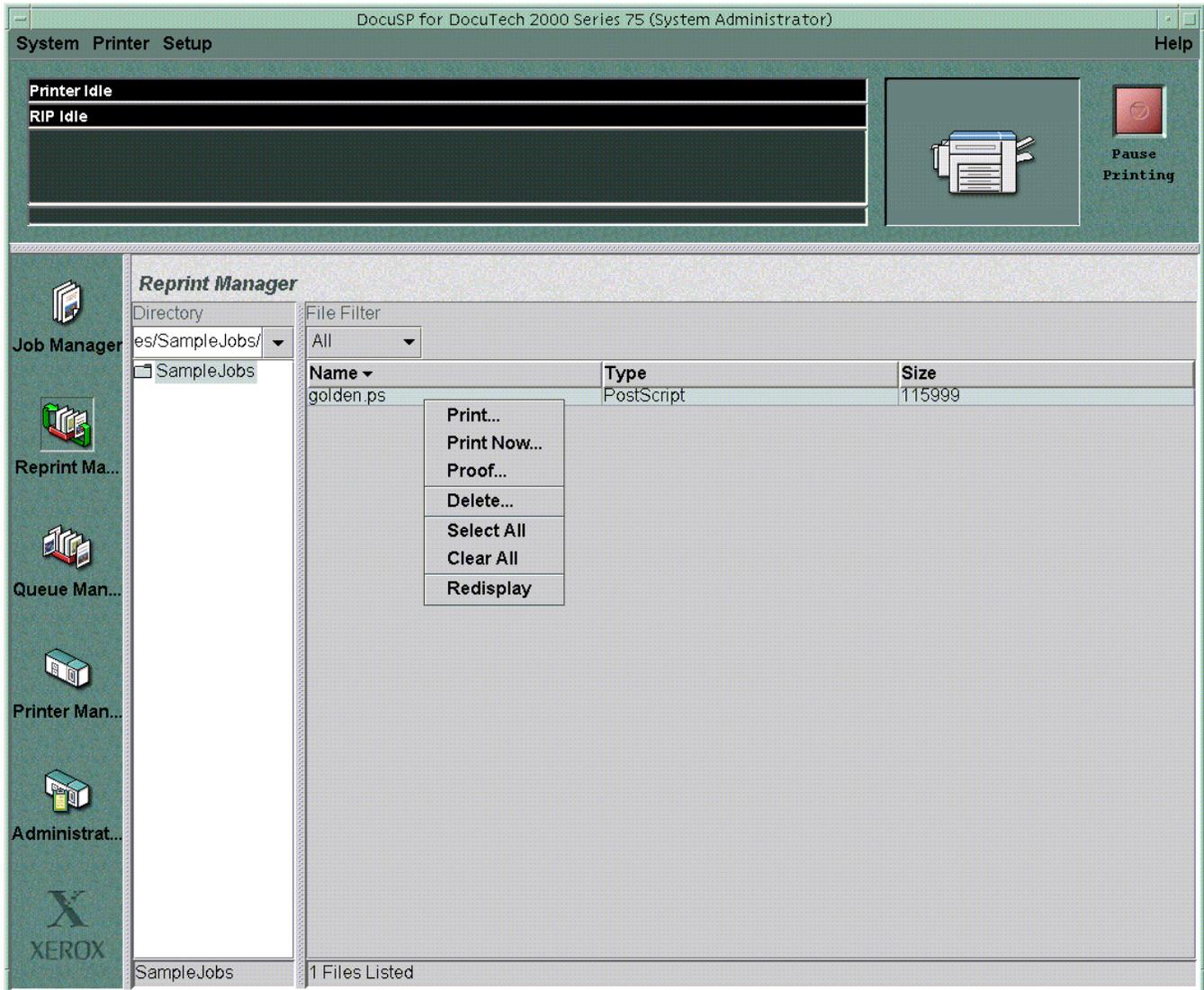
The selected job and the job attributes are copied from the DocuSP job database and submitted using the lpr gateway to the receiving DocuSP. Once the forwarding is complete, the job may be deleted or held at the originating DocuSP controller. The option to retain or delete the forwarded job at the originating DocuSP controller can be set within the Job Forwarding GUI (See figure, Job Forwarding).

## Limitations to Job Forwarding:

- At this time LCDS jobs cannot be forwarded.
- A job must be completely spooled onto the DocuSP controller before it can be forwarded to another DocuSP.
- There is no error recovery for forwarded jobs. If a network or connectivity problem occurs during the forwarding process, the job may be lost. If the job is critical, set the post-forwarding options to retain the job.
- You cannot forward a job that requires file referencing, such as DigiPath, VIPP, or GetTIFF macro jobs that reference PostScript or TIFF files. Jobs requiring file referencing can be forwarded by using common mount points between the DocuSP controllers where the referenced files are stored.
- If a customer wishes to use this feature to forward jobs that use file referencing, and the network does not use a name service (NIS, DNS, etc.), the name and IP address of the receiving DocuSP controllers must be in the /etc/hosts file of the sending controller.
- Only one job can be forwarded at a time.
- Job Forwarding to systems without some features, for example binding, will display a job ticket error. The error may or may not indicate the specific problem.
- Job Forwarding from DocuSP 3.6 to DocuSP 2.x will not work correctly due to the lack of XML job ticket support in DocuSP 2.x releases.
- Job Forwarding may not be cancelled once it has begun.
- The user must enter the Printer Name (host name) and the name of the receiving queue. The Job Forwarding GUI will not display a list of receiving controllers and the corresponding queues residing in the controllers.
- Error reporting for a forwarding operation is limited by the capability of the LPR protocol.
- Job attributes of a forwarding job will be converted to XPIF job ticket to be submitted along with the job.
- The forwarding controller will not keep track of forwarded jobs.

## Reprint Manager

Reprint Manager options are now accessed using the Reprint Manager icon. This DocuSP 3.6 version works much the same as Reprint Manager in DocuSP 2.x. After displaying the jobs to be reprinted, select the desired job and press the right mouse button to display the pull-down menu.



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## Reposition Output

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The feature "Reposition Output" has been added to the DocuSP 3.6 software. This feature allows a user to reposition the output page printing on a job. On legacy printing systems this is called "spacing".

For example, a job with 20,000 unique impressions can be paused at page 10,001 and spaced back, or repositioned, to print page 9,050 with nearly no impact to performance.

Since the target workflow for Reposition Output is a large or indefinite sized, unfinished, 1-N job, complicated publishing type applications are not appropriate for this feature.

It is important to note that the printer has to be paused to use this feature. Then the user inputs reposition values and selects "start spacing". Upon receiving the message "Output has been spaced successfully" the GUI will update with a new location. The user selects "resume" to continue at this point.

Reposition Output is accessed through the Printer drop-down menu.

The screenshot shows a window titled "Reposition Output" with a light green title bar. The window is divided into several sections:

- Job Information:** Contains text boxes for "Job Name", "Last Page Printed", "Next Page to Print", and "Pages Ripped".
- Pages Spaced:** A section with three input boxes labeled "1-Sided", "2-Sided", and "Total", each containing the number "0".
- Printer Options:** Contains two buttons: "Pause" and "Sample".
- Spacing:** Contains two input boxes with up/down arrows. The first is labeled "Sets to Space" and contains "0". The second is labeled "Pages to Space" and contains "1". Below each box is a range "-999,999 to 999,999". A "Start Spacing" button is located below these inputs.
- Status:** A text box at the bottom left of the main area contains the message "No job is printing."
- Navigation:** At the bottom of the window are three buttons: "Next Job", "Close", and "Help".

## Reposition Output Implementation Details:

Selections found in the “Reposition Output” menu:

- Pause and Resume Printing: these match the Pause and Resume controls in the status area.
- Space forward and backwards within a paused job an operator-specified number of pages
- Sample print the next page to print after spacing
- The user can space out of the current job or report to the first page of the next job if one exists.
- The user may choose to space forward or backward through sets, which can be characterized as one complete run (copy) of a job. For example, if the user is printing 10 sets or copies of a 100-page job, and the printer has completed 8 sets, the user may choose to space back to a set that was completed already; perhaps set 3 of 10.
- Alternatively, the user may choose to space forward or backward through pages within a set or single job. This ability is particularly useful for spacing within very large jobs.

## Reposition Output Limits:

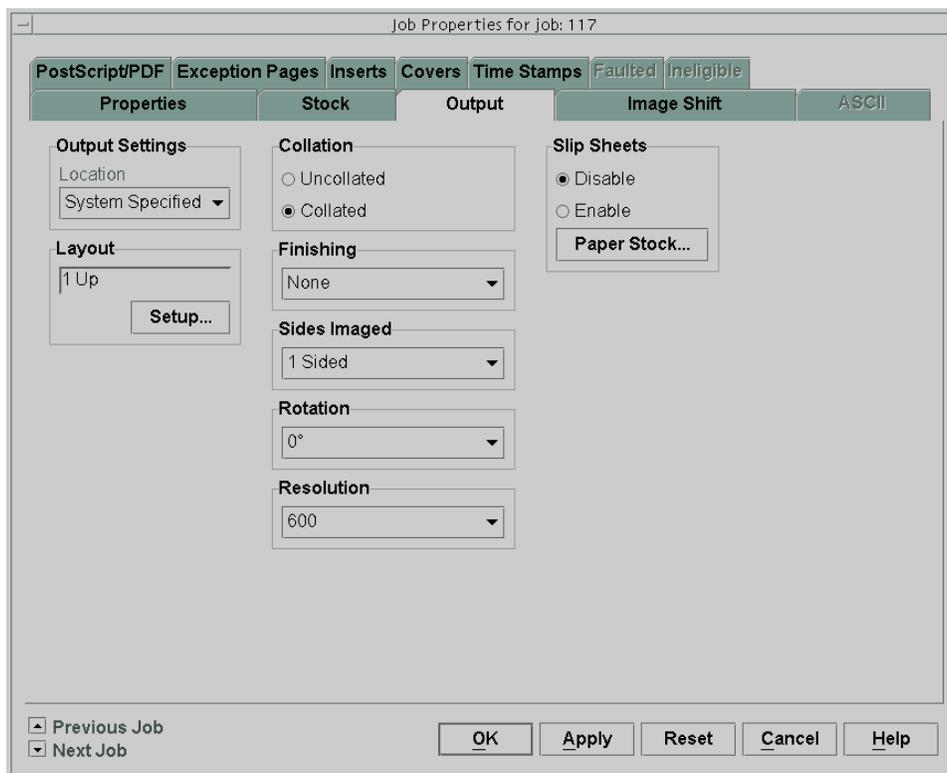
- Both N-1 and 1-N Reposition are supported; however, the GUI displays 1-N status. The intended “long job” target workflow makes 1-N usage more intuitive and easier to use, compared with N-1. For example, the GUI displays the current location and the user may choose to space backward 1000 pages. Therefore, “-1000” must be entered in the “Pages to Space” field. If N-1 orientation were to be displayed, the choice “+1000” would achieve the same results.
- Reposition on finished or subset finished jobs are not supported.
- Reposition works backward to 2000 total pages, and repositioning forward has no limits.
- Spacing and sample print functions are allowed only when the printer is paused.

## Layout

The Layout options enable you to control the placement, rotation, cropping, and scaling of source document pages onto the printed output to create books or booklets. This is also called Imposition or Signaturization.

*NOTE: The layout models ignore page-level PostScript programming, and various image spacing settings will be applied after layout, and in some cases will provide unexpected and inappropriate results.*

Layout is available on the Job Properties, Output tab. Layout requires a license to enable and will be available in the near future.



The available layout options, or models, are as follows:

- **1 Up:** This is the default selection for the layout feature. This model simply prints a 1:1 copy of the image.

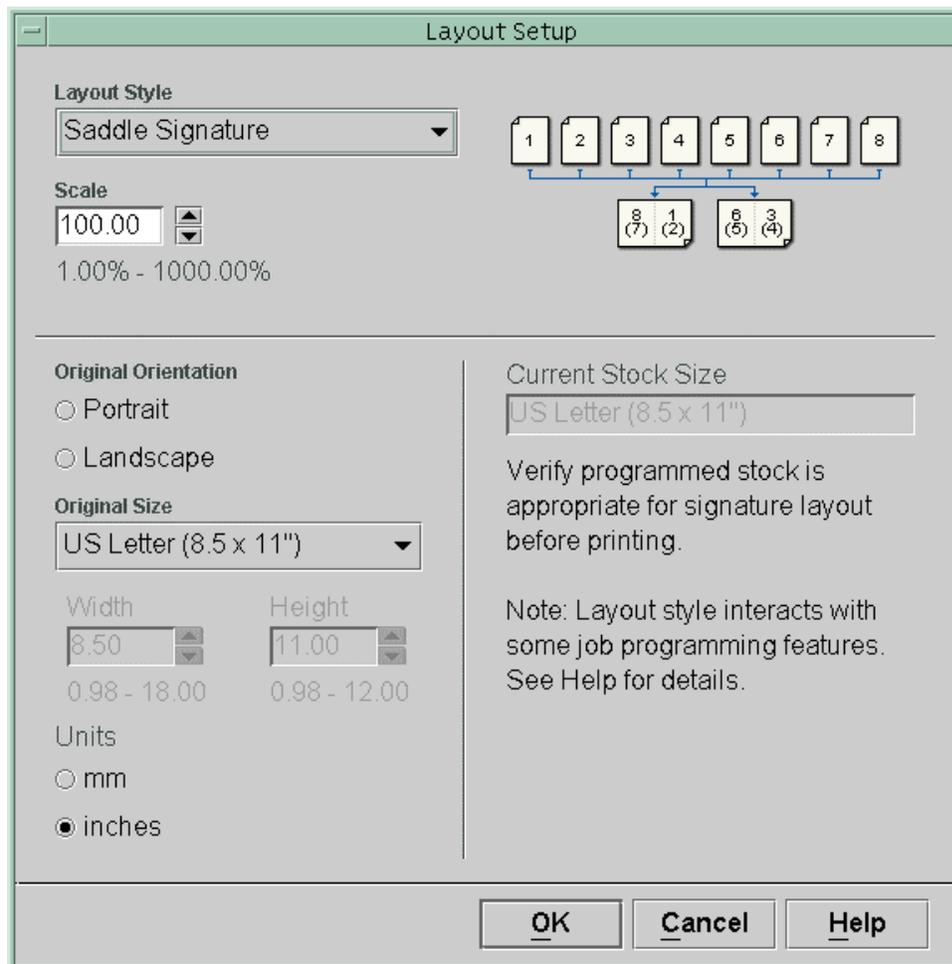
*NOTE: This setting is set as the default so that if the user does not select the layout feature, no layout formatting is applied.*

- **2 Up: Letter to Ledger/A4 to A3:** The 2 Up: Letter to Ledger/A4 to A3 Layout model places two sequential full-size letter or A4 images on a single landscape page of Ledger or A3 paper. This option is provided by a template, and there

are no programmable options. The output can be single-sided or double-sided.

- **2 Up Repeat: Letter to Ledger/A4 to A3:** The 2 Up Repeat: Letter to Ledger/A4 to A3 Layout model places two of the same full-size letter or A4 images on a single landscape page of Ledger or A3 paper. This differs from normal 2 Up: Letter to Ledger in that the same image is placed twice on the same Ledger or A3 page. This option is provided by a template, and there are no programmable options. The output can be single-sided or double-sided.
  - **Saddle Signature:** The Saddle Signature Layout model is used to make signature booklets. The output is always 2-sided, and there are several user-programmable options.
    - Original Size: user-specified size of the input PostScript/PDF job
    - Scale: factor by which each side of the original page image is multiplied before being imposed
  - **Perfect Signature:** The Perfect Signature Layout model is used to make signature booklets. The output is always 2-sided, and there are several user-programmable options.
    - Original Size: user-specified size of the input PostScript/PDF job
    - Scale: factor by which each side of the original page image is multiplied before being imposed
- The difference between Saddle Signature and Perfect Signature is the same as the difference between newspapers and magazines: Newspapers contain several signature sheets which are folded together to create a booklet, while magazines contain many simple signature booklets bound together side by side.
- **2 Up Cut & Marry:** The 2 Up Cut & Marry layout model is used to create a document which can be cut down the center and combined to form one job. The output can be single-sided or two-sided.
    - Original Size: user-specified size of the input PostScript/PDF job
    - Scale: factor by which each side of the original page image is multiplied before being imposed
  - **Multiple Up:** The Multiple Up layout model allows the user to print two, four, or more images on each single output sheet. The output can be one-sided or two-sided. The user-programmable options are:
    - Original Size: user-specified size of the input PostScript/PDF job

- Scale: factor by which each side of the original page image is multiplied before being imposed
- **Multiple Up Repeat:** The Multiple Up Repeat layout model creates a document which contains N copies of each input page on the corresponding output page. The output can be one-sided or two-sided. The user-programmable options are:
  - Original Size: user-specified size of the input PostScript/PDF job
  - Scale: factor by which each side of the original page image is multiplied before being imposed



## Caveats for using Layout

- Job programming is applied after the pages are imposed. These settings include Sides Imaged, Collation, Image Shift, and Quantity. It is possible to program settings that create a conflict with the layout settings. This may produce unexpected or incorrect results when the images are imposed. For instance, if you remove collation on a set of prints you wish to impose as saddle signature, you will get N copies of each page next to each other instead of 1-N, 1-N, 1-N, etc.

This may create problems when the signature booklet is sent to the Signature Booklet Maker.

- All special page programming, such as inserts, covers, and page exceptions, will be ignored when using the Layout feature.
- The Layout feature is valid only for PostScript and PDF print jobs and for jobs submitted to a spooling queue. Any page-level PostScript programming in the PDL will also be ignored when the job is printing.

## Job Properties

All of the job properties available through dialog boxes in DocuSP 2.x are now structured in tabs when Properties is selected for a job.

In addition, the following new properties are available for each job:

➤ **Printing Progress:**

The Print Progress fields allow you to track the progress of the job through the system. This feature is especially helpful for very large, very long jobs, and can be used to determine on what page a job may have faulted. Printing Progress information is updated at regular intervals.

Job Properties for job: 25

PostScript/PDF Exception Page Inserts Covers Time Stamps Faulted Ineligible

Properties Stock Output Image Shift ASCII

**Properties**

Name  
Microsoft Word - StockGroupoverview.doc

**Pages To Print**

All  [ ] To [ ]

Format: PostScript Quantity: 1

**Printing Progress**

Bytes Ripped: [ ]  
Pages Ripped: [ ]  
Total Pages Printed: [ ]  
Sets Completed: [ ] of [ ]

**Destination**

Print  
 Save

Save Location... [ ]

Save Format: Single-page TIFF

**Notes**

Sender Name: OJirelan  
Recipient Name: OJirelan  
Source File: [ ]  
Account Info: [ ]  
Banner Page Message: [ ]  
Start Message: [ ]

Pending

Previous Job Next Job OK Apply Reset Cancel Help

➤ **Stock List:**

Named media and the ability to preprogram paper stock attributes are now supported for the DT/DP 75/90 printers. The Stock List, which displays all of the programmed stocks in the controller, can be used to quickly select a stock and have the stock parameters, size, type, weight, color, etc., automatically populate the required fields. Refer to the section on Printer Manager for more information on using the stock setup feature.

The Stock List can be accessed through Job Manager Properties or Printer Manager Properties tabs.

The screenshot shows a window titled "Stock List" with a table of paper stock configurations. The table has columns for Stock Name, Tray, Size, Color, Type, and Weight. Each row represents a different stock type, such as "a", "arch-a", "b", etc., with their respective dimensions, colors, and weights.

Stock Name ▼	Tray	Size	Color	Type	Weight
a		US Letter (8.5 x 11")	White	Plain	75 gsm
arch-a		Custom (9 x 12")	White	Plain	75 gsm
arch-a-transparent		Custom (9 x 12")	Clear	Transpar...	75 gsm
arch-a-white		Custom (9 x 12")	White	Plain	75 gsm
arch-b		Custom (12 x 18")	White	Plain	75 gsm
arch-b-transparent		12 x 18"	Clear	Transpar...	75 gsm
arch-b-white		12 x 18"	White	Plain	75 gsm
a-transparent		US Letter (8.5 x 11")	Clear	Transpar...	75 gsm
a-white		US Letter (8.5 x 11")	White	Plain	75 gsm
b		US Legal (8.5 x 14")	White	Plain	75 gsm
b-transparent		US Legal (8.5 x 14")	Clear	Transpar...	75 gsm
b-white		US Legal (8.5 x 14")	White	Plain	75 gsm
default		US Letter (8.5 x 11")	White	Plain	75 gsm
folio		8.5 x 13"	White	Plain	75 gsm
folio-white		8.5 x 13"	White	Plain	75 gsm
invoice		US Statement (5.5 x 8.5")	White	Plain	75 gsm
iso-a3		A3 (16.5 x 11.7")	White	Plain	75 gsm
iso-a3-colored		A3 (16.5 x 11.7")	White	Plain	75 gsm

At the bottom of the dialog box, there are three buttons: **OK**, **Cancel**, and **Help**.

---

## Queue Manager

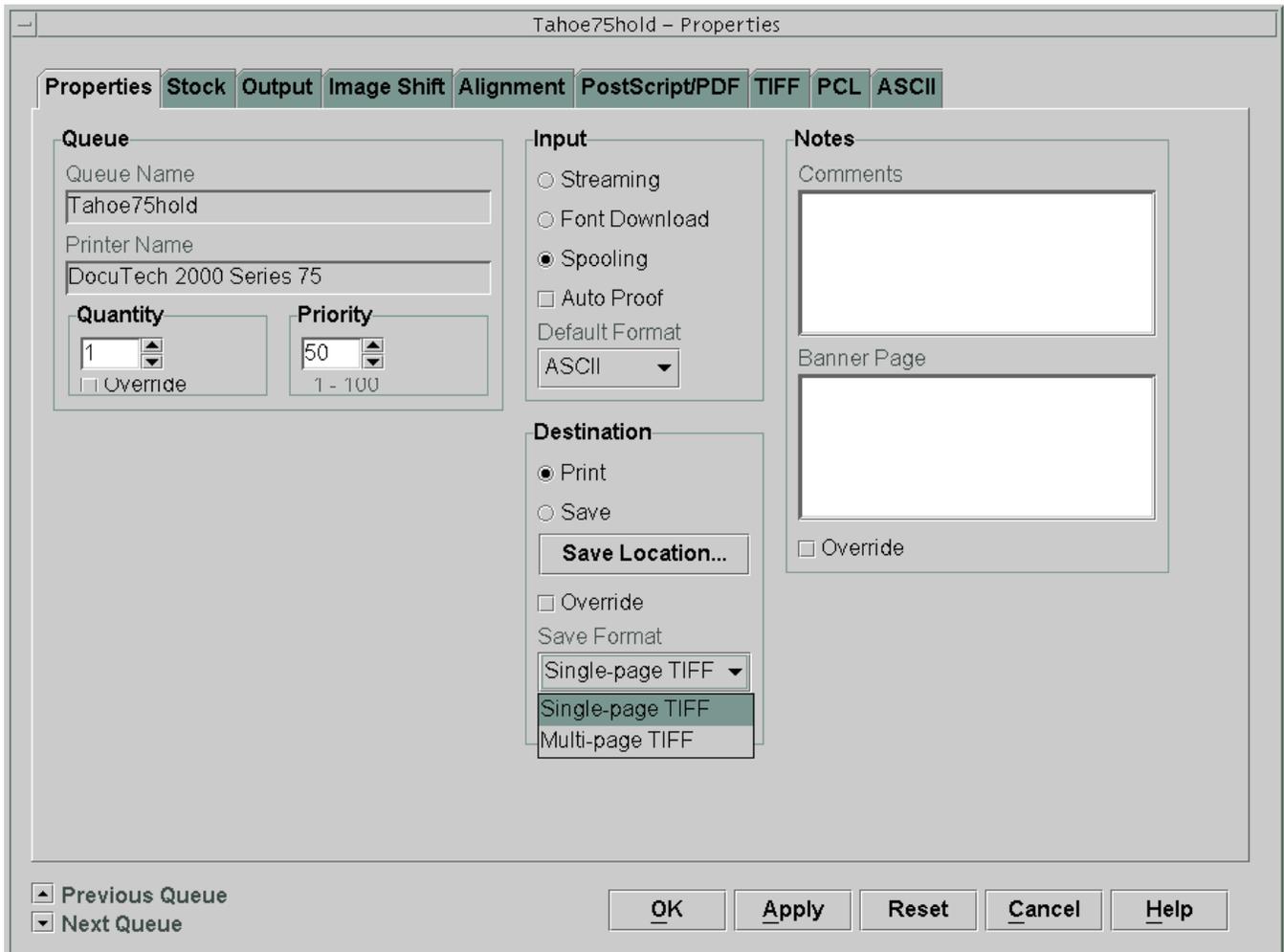
---

The Queue Manager has not changed significantly from DocuSP 2.1. When Queue Manager is selected, the work area displays the list of defined queues and associated properties.

To create a new queue, either click the right mouse button in the window, or select the New Queue button in the lower corner of the screen.

➤ **New queue properties include:**

- **Mixed Stock Size selection** – Refer to the explanation under Job Properties for a detailed explanation of this feature. Setting this feature on a queue requires that all jobs submitted to the queue fit the stock size parameters necessary for the mixed stock selection.
- **Auto Proof** – Setting Auto Proof as a queue property will automatically proof all jobs submitted to the queue. The proof quantity, the number of sets that are printed for a proof job, can be changed in Preferences, Job Policy.
- **PostScript/PDF Start file** – This option allows the users of VIPP to load the VIPP start file onto the DocuSP controller and have it automatically added to any VIPP jobs. Be sure the queue is set for a default document format of PostScript. The VIPP startup file must be copied into the directory `/var/spool/XRXnps/vipp`.
- **TIFF decomposer settings** – Allows the user to set the resolution at which TIFF files will be processed.



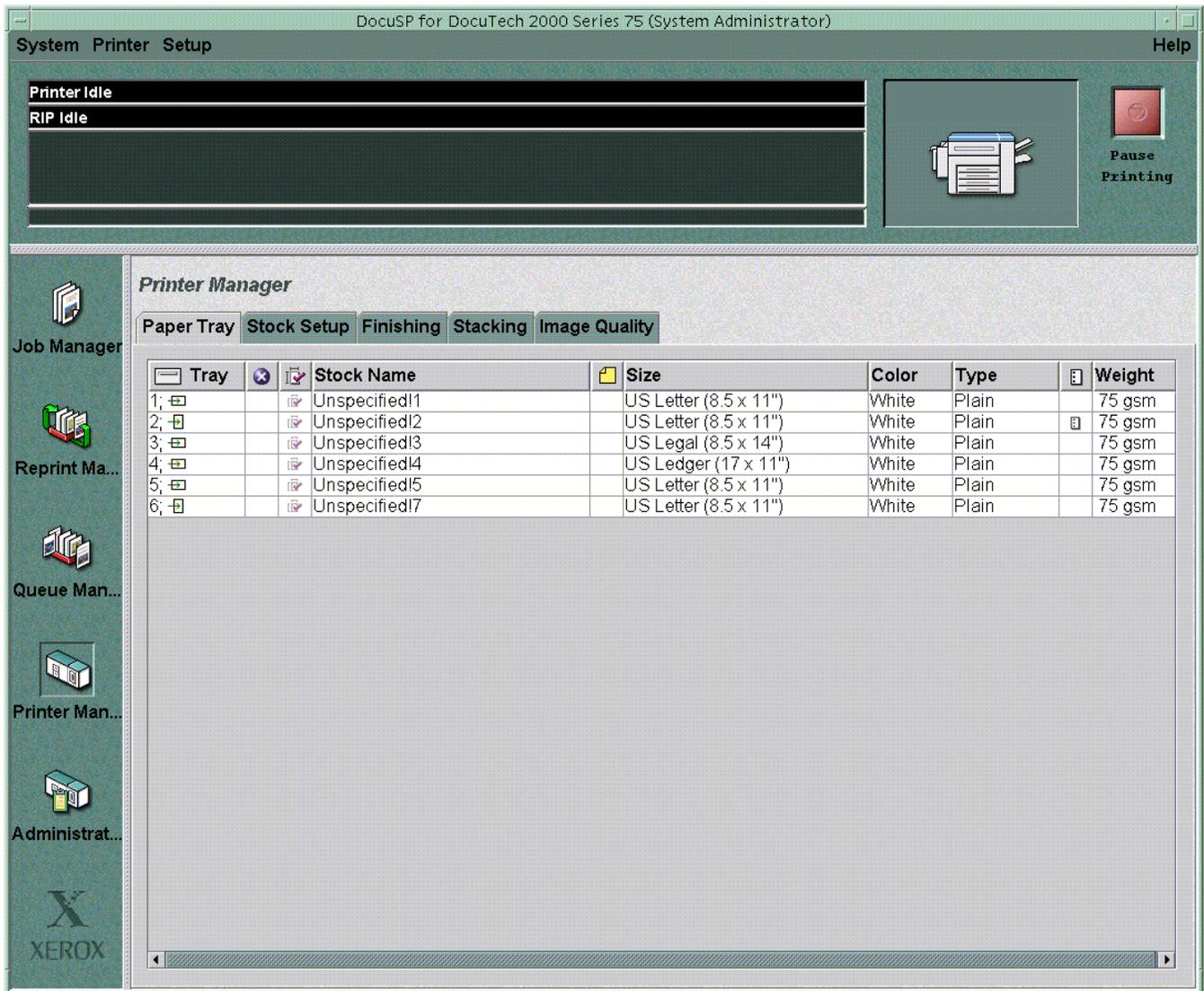
---

## Printer Manager

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When Printer Manager is selected, the work area displays the following tabs:

- Paper Trays, which shows all of the paper trays in the printer and their properties. Selecting a paper tray and either double clicking, or selecting the right mouse button and Properties, displays the properties for the paper tray.
- Stock Setup allows the operator to program paper stock that is used regularly in the system. The DocuSP is installed with some paper stocks already defined.
- Finishing accesses the finishing features of the printer and allows the operator to enable, disable, or setup the finishing options.
- Stacking accesses the setup for the stacker.
- Image Quality is used to modify the printer image quality settings.



The major change in Printer Manager is the ability of the user to program paper stocks using the Stock Setup feature. Refer to the DocuSP online help for details on using the Stock Setup feature.

DocuSP for DocuTech 2000 Series 75 (System Administrator)

System Printer Setup Help

Printer Idle  
RIP Idle

 **Pause Printing**

---

**Printer Manager**

Paper Tray **Stock Setup** Finishing Stacking Image Quality

Stock Name ▾			Tray	Size	Color	Type		Weight
MAIN								
AUX								
AUTO								
a				US Letter (8.5 x 11")	White	Plain		75 gsm
arch-a				Custom (9 x 12")	White	Plain		75 gsm
arch-a-transparent				Custom (9 x 12")	Clear	Transparency		75 gsm
arch-a-white				Custom (9 x 12")	White	Plain		75 gsm
arch-b				Custom (12 x 18")	White	Plain		75 gsm
arch-b-transparent				12 x 18"	Clear	Transparency		75 gsm

312 Stocks Listed New Stock...

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**Hidden Stocks**

Stock Name ▾			Tray	Size	Color	Type		Weight
executive				Custom (7.24 x 10.51")	White	Plain		75 gsm

1 Stock Listed



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## Administration

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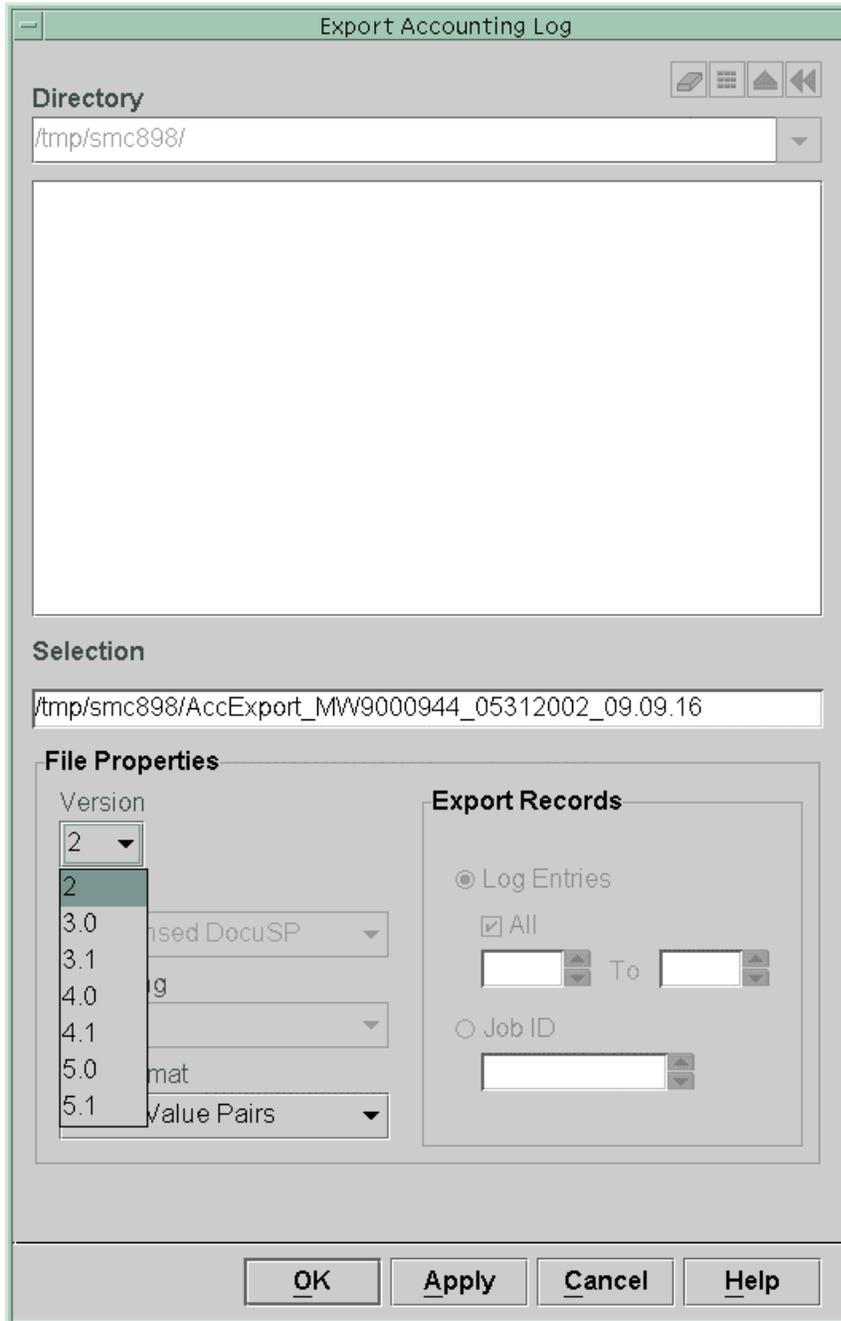
When Administration is selected, the work area displays tabs for Accounting, Billing, and PostScript/PCL Fonts.

## Accounting

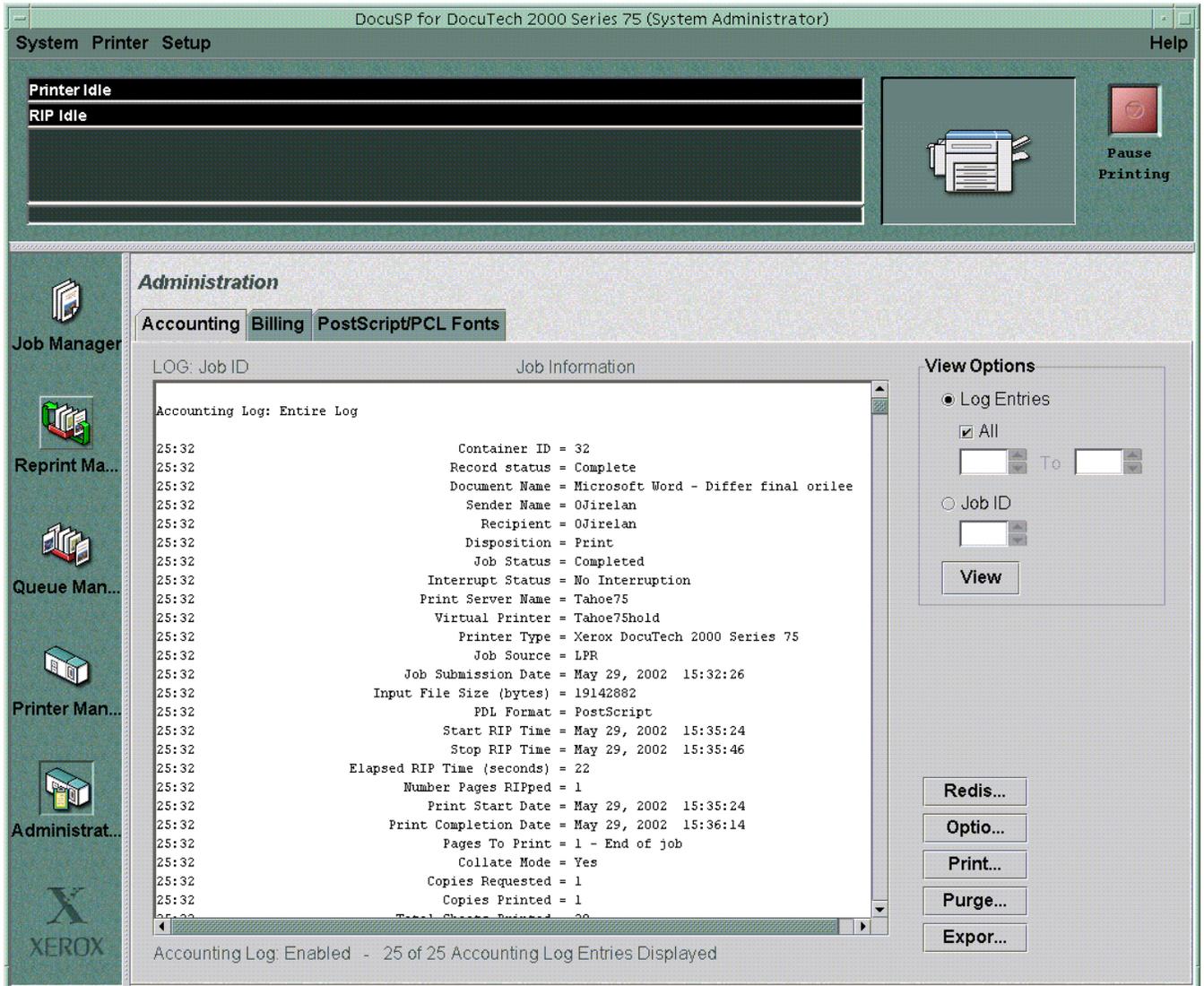
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The Accounting function has the following enhancements:

- Additional options for purging the accounting log, including purge by job ID.
- Four new versions for the exported accounting log: version 4.0 and 5.0 which includes all attributes found in DocuSP 3.6 and earlier in ASCII format, and version 4.1 and 5.1 which includes all attributes found in DocuSP 3.6 and earlier in EBCDIC format. The attributes that are new for DocuSP 3.6 include trapping and tape client attributes. Refer to the Online Help for more information about format descriptions.



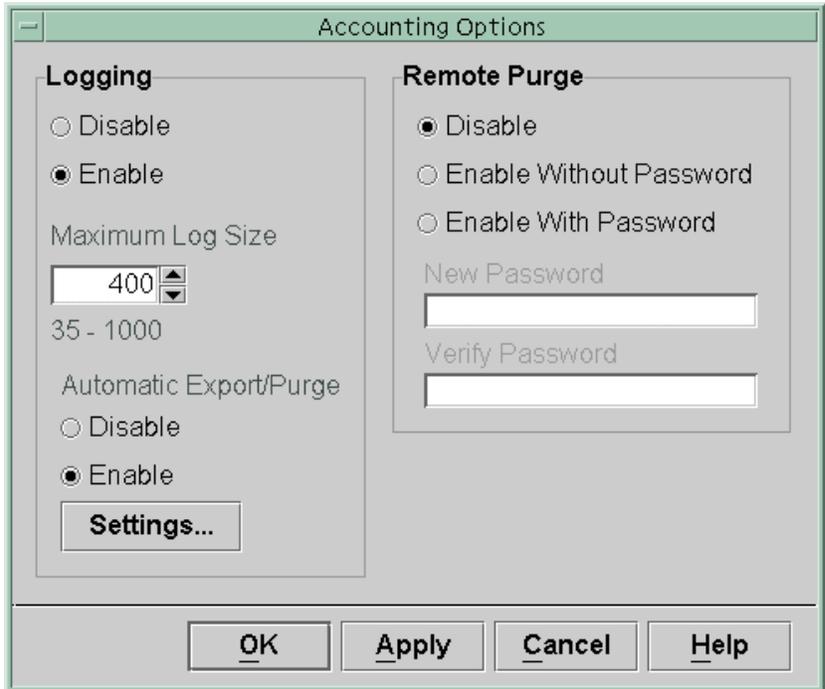
- “Account” field changed to “Department”: A modification of the accounting log output has been made for DocuSP 3.6. This change is to match legacy Xerox LPS systems. The sixth field has changed from "Account" to "Department" when viewing and printing the Accounting Logs.

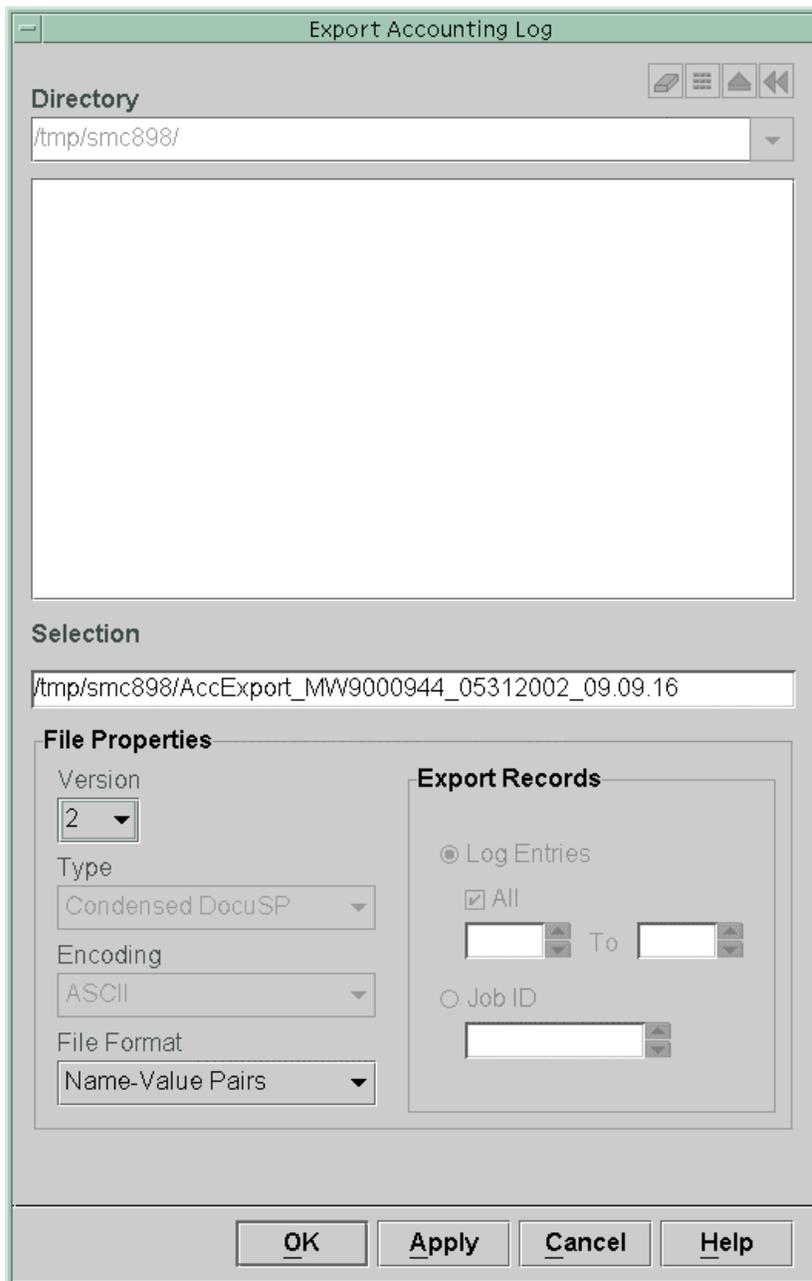


## Automatic Export

This option has been added to force the Accounting facility to automatically export and purge the accounting data when the log reaches 80% full. This preserves and protects the accounting data automatically and avoids unwanted overwrites of accounting data; it also provides an easy mechanism to export data without operator intervention or attention.

When you enable the Automatic Export/Purge option, you will need to set up the location of the exported file and the file format.





#### Implementation Details:

- When Automatic Export/Purge is enabled in Administration, the user is warned when the accounting log reaches 80% full that an automatic export and purge has occurred.
- Export paths and names are handled the same as previous manually exported accounting files
- The file will be placed by default in the /export/home/xrxusr/accountingexportfiles directory. However, the user may choose an alternative destination.

- When Export/Purge is enabled, the user may enter and select Auto Export Path and Auto Export Format (either "name-value pairs" or "record layout definition").

### **Industry Standard Delimited Database File Format**

An option has been added to export the accounting data in a database-friendly format. This option allows export in a fixed semi-colon delimited format that easily imports into popular software tools, such as databases and standard spreadsheets, without manipulation. This reduces the need for third party conversion software.

This new format is called "semi-colon and record layout format". This format includes ALL fields for a given record including empty records with each record separated by a semicolon. A semicolon is present even if a specific field is empty. This creates an equal number of fields for each record, and facilitates import into common database/spreadsheet packages.

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## Enhanced Job Preferences

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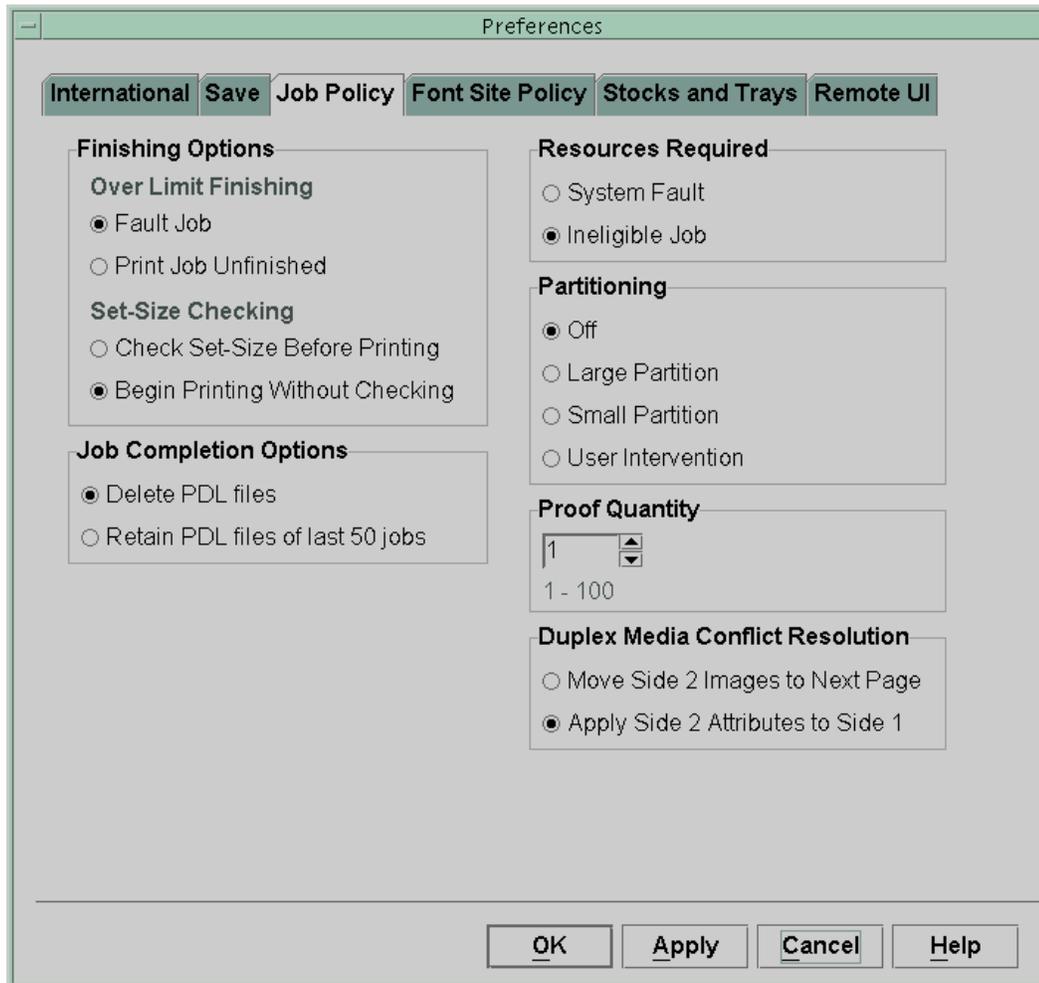
The Preferences selections support the new features and functions for DocuSP 3.6.

- Under Job Policy, the following new preferences can be set:
  - **Proof Quantity** - to change the number of copies or sets that are printed when a job is proofed.
  - **Duplex Mode Conflict Resolution** - This preference has 2 settings:
    - ✓ **Move Side 2 Images to Next Page**: Setting this preference allows any job programming conflicts between side 1 (front) and side 2 (back) of a page to result in the side 2 image being placed on side 1 (front) of the next page or sheet in the job. This feature is especially important for printed covers or media coating differences between side 1 and side 2.
    - ✓ **Apply Side 2 Attributes to Side 1**: Setting this preference sets the system to work as expected in DocuSP 2.1 and earlier. Job Programming conflicts between side 1 and side 2 of a job results in the side 2 programming attributes to be applied to side 1 of the page.
  - **Retain PDL Files of last 50 jobs** - Another new feature in DocuSP 3.6, Retain PDL Files of last 50 jobs, allows the customer to print and change properties on completed print jobs. Instead of resubmitting a print job from a client workstation the job is retained at the controller, where the job can be resubmitted and job properties can be changed. When Retain PDL Files of last 50 jobs is enabled, the user is allowed to change job properties and resubmit jobs for printing once they become available in the Completed Jobs field of Job Manager.

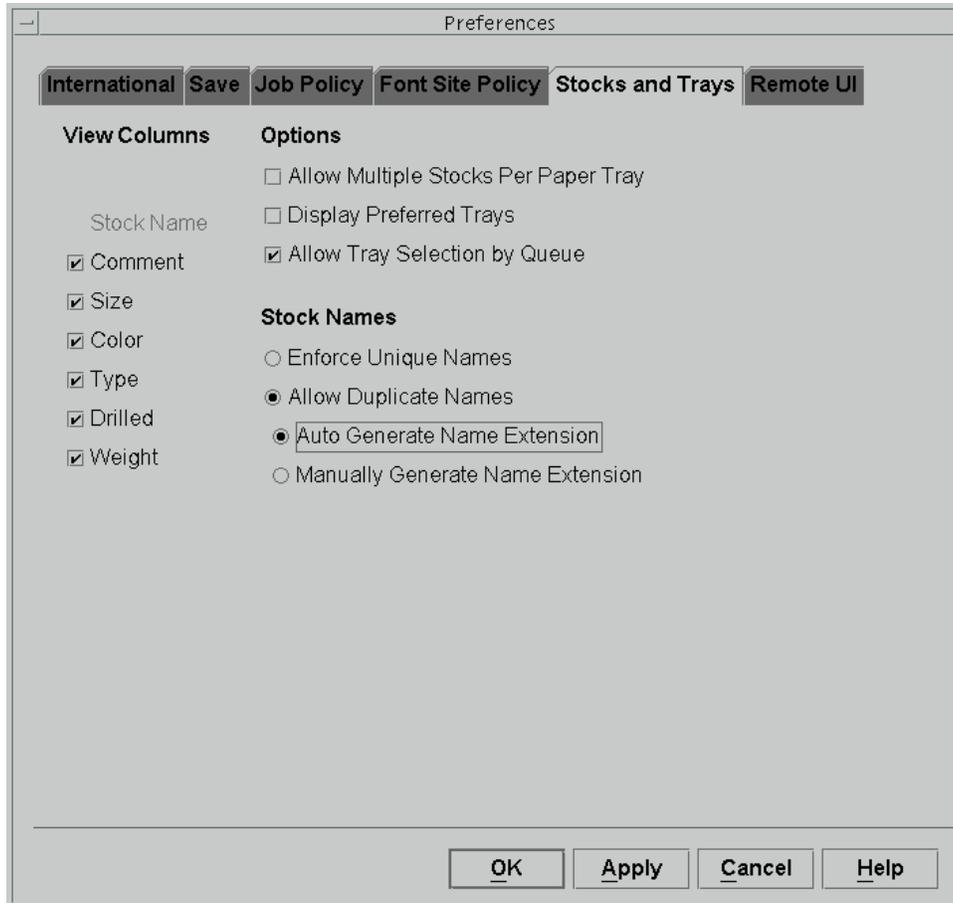
The maximum number of jobs available in the Completed Jobs field is reduced from 500 to 50 when Retain PDL Files of last 50 jobs is enabled. When the 50 jobs limit has been reached, the DocuSP controller will automatically delete jobs as new jobs are added to the system. The oldest job is deleted first.

The following job states are eligible for Retain PDL Files of last 50 jobs: Completed, Completed with Error, Completed with Warnings, Save Completed, Save Completed with Error, Completed with Warning, Cancelled by operator, Cancelled by System, Cancelled by User, Aborted, and Rejected.

See the Job Completion Options in the following figure. The option to Delete PDL jobs is the standard, or default, behavior. Prior to DocuSP 3.6, when a job was printed, the PDL (PostScript, PCL, or TIFF) file was deleted from the system. In order to print the job again, the job had to be resubmitted from the client workstation or from the Save Location.



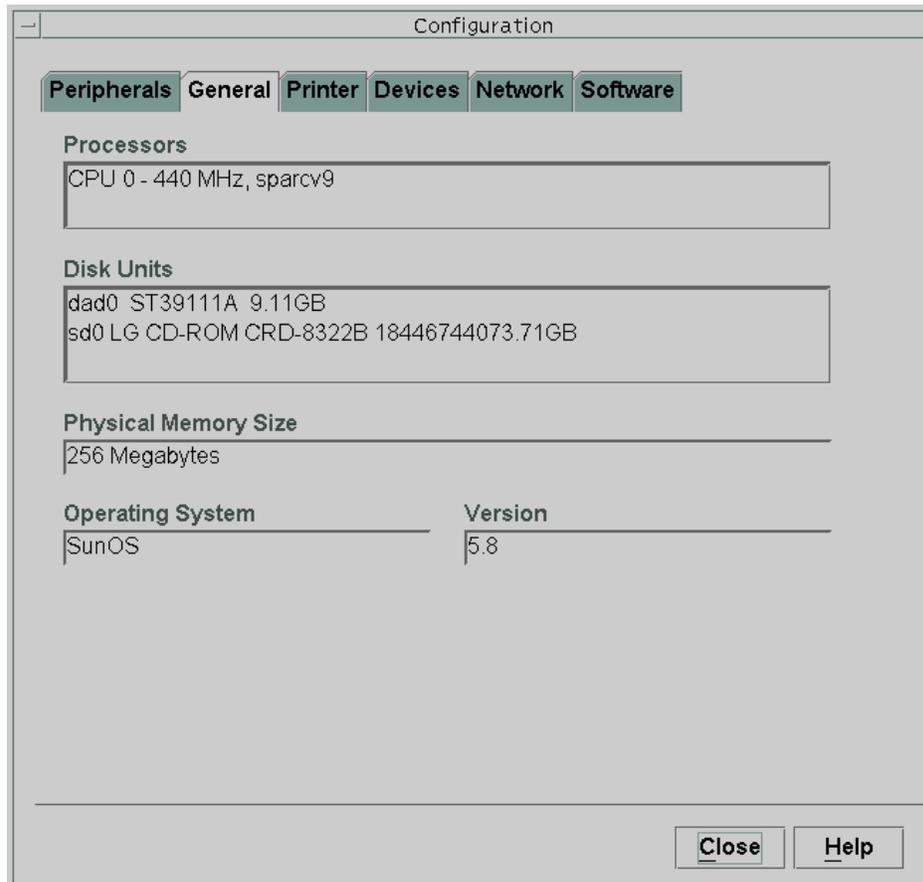
- **Stocks and Trays** - a new tab that activates features found in either Stock Manager or Paper Tray properties. See the section “Stock Management” for additional information.



## Configuration

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In the DocuSP 3.6 release the data displayed in the System Configuration has been enhanced in a number of areas. For example, the "General" tab includes specific detail about the actual CPU speeds (e.g., 296MHz), and hard disk sizes and types (e.g., Sun/Fujitsu 9.06 GB).



## **Debug Logging Enabled/Disabled indicator**

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An icon has been added to the main menu to help a user to determine if software debug logging is enabled or disabled. Software debug logging is enabled by the Xerox Service Representative when the customer is experiencing problems that require additional information gathering from the system.

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## LCDS support and enhancements

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New to DocuSP 3.6 is LCDS support for the DP/DT 75/90 class engines. The LCDS support is only available on the Sun Blade™ 150 platform. Most software is common between the DocuPrint 1xx EPS and DocuTech/DocuPrint75/90 implementation. However, there are a few important differences.

### Differences between 75/90 and 1xx:

There are several differences between the 75/90 and DocuPrint 1xx EPS engines and therefore, limitations on how certain LCDS commands respond and handle print data.

- The 75/90 engine is really a printer (e.g., processes fully composed jobs vs. individual pages).
- The 75/90 engine has additional features such as finishing.
- No edge marking
- Bit doubling 300->600 instead of interpolation
- Engine queues jobs itself
- Bykal vs. PDCIM-U: Compressed full-page images go across, not scan lines.
- PDCIM-U has many features (shifting, cropping, image augmentation, compression).

### LCDS limitations on the 75/90:

- **Late Binding (LCDS Image Alignment):** This feature (LCDS DJDE) aligns an image on a pre-printed form. The DocuPrint 75/90 cannot reposition the image on the media during print. The 75/90 also cannot add white space or trim scan lines. The workaround is to use the Image Shift feature.
- **Sample - sample a page while printing a job:**  
The 75/90 printer uses a job queuing model to print output and cannot sample a job while printing.
- **Single Sheet Offset Limits and Differences:** The 75/90 printer does not have a "jog" feature, whereby a single sheet can be offset in a stack of output. Offset between sets (reports), jobs, and copies as well as subset offset (LCDS ROFFSET) are supported. Jam recovery offset is not supported since the 75/90 jam recovery is different. Crash recovery offset for LCDS is not implemented. If stitching and offset are requested at the same time, stitching will always override offset.
- **LCDS Auto Sizing:** The 75/90 printer requires that the image and the media be within 1 mm in size to be accepted. This is contrary to the LCDS notion of "SIZING", in which images may be printed on media that is not the same size.
- **Set Output Threshold:** This requirement is for use with multiple stackers. The 75/90 has only one stacker. The feature has two parts - a "Bin Limit" and a "Unload at job

complete". Both are set at the GUI. The 75/90 does not provide the ability to set the limit on the stacker. When the stacker is full (or a bin limit is reached), it cannot switch to the top tray. "Unload at job complete" requires that the printer stop queuing jobs after job completion. Since jobs are queued at the printer, the only possibility is for the system to cycle down the printer.

- **Unique Tray selection including clusters:** The 75/90 printer selects paper trays based on the following attributes: Size, Color, Weight, Type, and Sequence (for ordered stock only). The DocuPrint 1xx EPS printer allows trays to be selected based on the stock name as well. On the 75/90, two stocks with different names but the same attributes will pull from the same tray. This behavior is the same as if the job was sent via a conversion application such as MISPrint. As a workaround, make one of the stock attributes different; for example, define a custom paper Type for one of the stocks.
- **Lack of edge marking:** The 75/90 printer requires that the page image be within 1 mm of the paper size. Bitmap sizes are rounded in the fast scan direction to the nearest 32-bit boundary within 1 mm of the paper size. Some paper sizes are rounded up and some are rounded down. US Letter is rounded down so an additional 4 dots are clipped.

On the DocuPrint 1xx EPS printer, there are 21 dots (300 spi) and 100 dots along the lead edges so the media needs to be moved over 21x100 with respect to the image. The extra dots allow images to overlap the edge of the paper ensuring full-page coverage; and depending on the content, the data may be visible when looking at the side of a stack of paper. On the 75/90, there are no extra dots along the lead edges, so the edge of the media needs to be lined up with the beginning of the image. Even when there is a full page of data (depending on the 32-bit rounding above), the registration of the paper will impact the visible image.

LCDS provides a command to shift the image up to 75 dots either towards or away from the lead edge. LCDS clips the page content and then the shift occurs. With the 75/90, since the LCDS decomposer already clips this edge area, the data from the margins outside the page area will not show up on the paper if the SHIFT command is used.

- **The Accounting Page is offset from LCDS Report:** Similar to the Administration Page on the 75/90, the LCDS Accounting Page is offset from the report. The customer may disable accounting pages altogether or route them to the top tray if this is an issue.

## Tape Client

The Tape Client software enables transmission of data from a cartridge or open reel tape to the DT/DP 75/90 controller via the Socket Gateway. The Socket Gateway must be set up to interact with the Tape Client software. Refer to the online help for information on Socket Gateway installation and setup.

To interact with the Tape Client software, open the Tape Client window on the DocuSP interface by selecting **Tape Client...** from the System pull-down menu. All Tape Client functions are accessed through this window.

The screenshot shows the 'Tape Client' window with the following sections:

- Job Setups:** Name: Default Setup (dropdown); Buttons: Save Setup, Save As..., Delete.
- Input Device:** Name: Tape 0 (dropdown); Button: Rename...; Buttons: Unload, Rewind.
- File Range:** Radio buttons for All (selected) and Range; Example text: e.g. 1-7;1,3,5;5-1;or 6,2,3.
- Output Control:** Printer: fountain\_test (dropdown); Button: Setup...; Queue: AR26090 (dropdown).
- Tape Job Log:** Button: View Log...
- Input Control:** Buttons: Start, End; Move: Block..., Tape Mark...; End of Job:  Rewind Tape,  Unload Tape.
- Document:** Initial JDJ, Initial JDE, Initial Form (each with a List... button); Quantity: spinner control; Button: Defaults.
- Status:** Text area showing: [Sep 19, 2001 10:09:57 AM] Starting Tape Client...
- Bottom:** Buttons: Close, Help.

## Supported tape drives

You can submit offline jobs from 9-track or 36-track serial tape drives of the following supported types:

- Cartridge tape drives: 3480, 3490, 3490s, and 3590
- Open reel drive 9914

Tape Client supports the following tapes:

- 18/36 track cartridge
- 9-track open reel.

## Tape Client capabilities

The Tape Client provides the following capabilities:

- Offline Printing of LCDS data stream
- Data transmission via Socket Gateway
- Processing of LCDS PDL commands in job source libraries (JSLs)
- Tape dump
- Control by the DT/DP 75/90 user interface
  - ✓ Rewinding and unloading
  - ✓ Checking tape status
  - ✓ Moving over blocks and files to reposition tape
- Tape job accounting
- Printing of multiple jobs initiated by a single Start command

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## Online Manager

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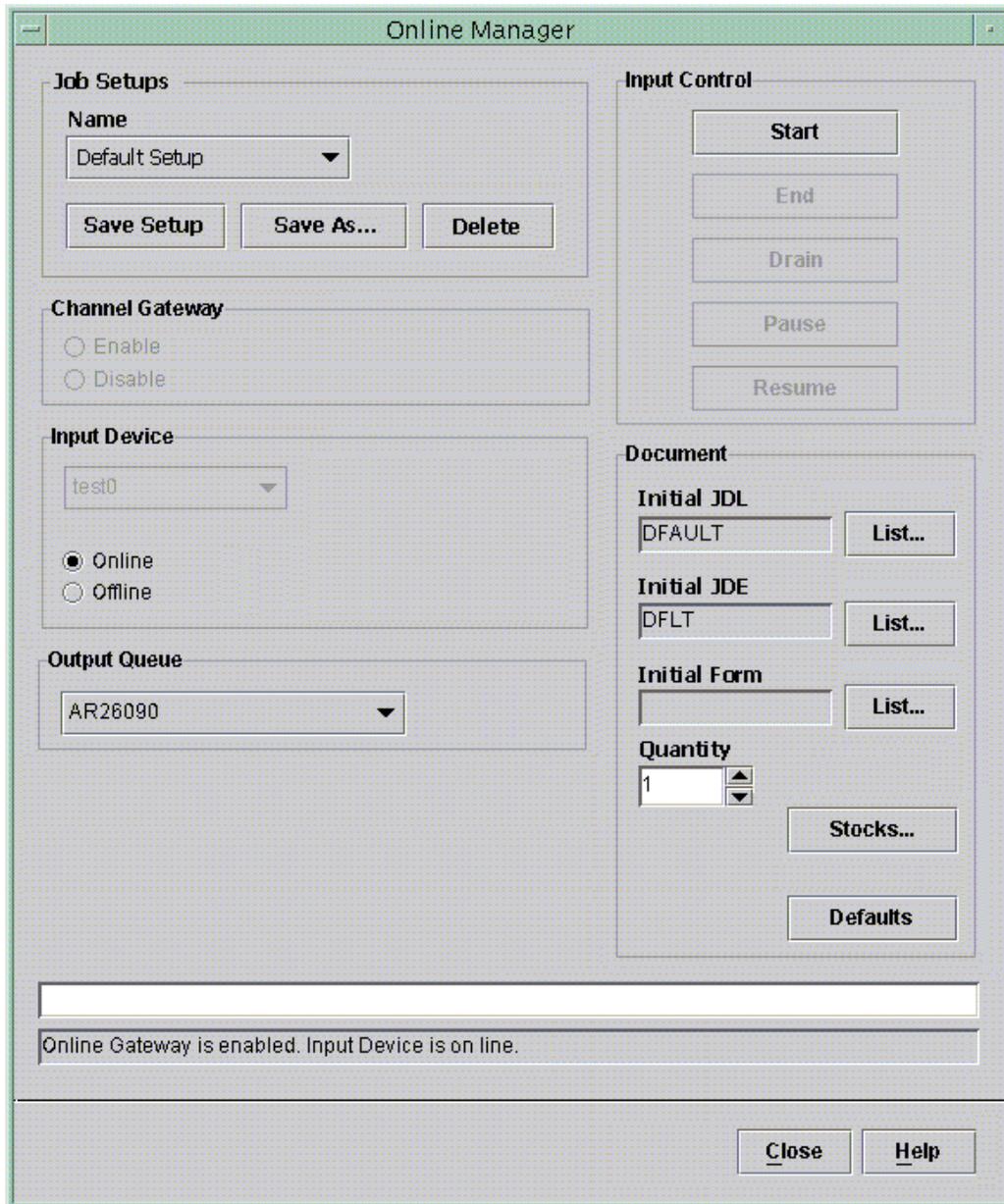
The Online Manager GUI has been introduced and includes the Job Setup feature. This feature allows the user to select and load an existing job setup, to create and save a new job setup and to delete a selected job setup. LCDS jobs are sent through the Online Gateway using the Online Manager.

A job setup is a collection or set of start parameters---including Input Device name, Output Queue name, Initial JDL, Initial JDE, Initial Form and Quantity.

The user will have the option to save the set of start parameters as one "job setup" for use when the Online Manager is accessed. The start parameters include Input Device name, Output Queue name, Initial JDL, Initial JDE, Initial Form and Quantity.

- 1) The user can save up to 100 job setups.
- 2) The user can choose a job set from the available list and load it before starting an online job.
- 3) The user has the option of deleting a job setup.
- 4) The list of all saved job setups is displayed in the Name list every time Online Manager is accessed.
- 5) The Job Setup Name list will display "Default" when Online Manager is accessed the first time after installation.
- 6) The Job Setup Name will display the last job setup when Online Manager is accessed after a "Restart" or "Shutdown" of DocuSP.
- 7) The user has the option of saving the job setup before closing the Online Manager window.

To interact with the Online Manager software, open the Online Manager window on the DocuSP interface by selecting **Online Manager...** from the System pull-down menu. All Online Manager functions are accessed through this window.



The DocuPrint 75/90 IPDS Printing System (TIPS) software is available for the DocuSP 3.6 release.

TIPS is a separate IPDS imaging subsystem with a graphical user interface. Integration of TIPS with DocuSP is similar to the Tape Client except that the software is sold and distributed separate from DocuSP.

### **TIPS Option Overview:**

- New IPDS mode subsystem; separately installed and licensed. IPDS input via bus and tag or network, and PostScript output to the DocuSP.
  - New universal Bus and Tag GroupeSet driver; IPDS capability added to the existing LCDS function.
  - New TIPS GUI; this will also invoke and shutdown the subsystem. TIPS GUI will be started via a main menu selection in the DocuSP Server GUI.
  - New TIPS Installation Script with updates to licensable features and gateway.
- **Key Points for DocuSP:**
- A modified License Manager GUI
  - The DocuSP GUI has been adjusted to enable the TIPS GUI (only if the TIPS GUI software is installed and the appropriate license is enabled and active).
  - New universal Bus and Tag GroupeSet driver.
  - Backward compatible interfaces for the LCDS environment.
  - IPDS Gateway product is self-contained in a separate CD.

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## Supporting Documentation and Software

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Review the *DocuSP 3.6 Getting Started* document for notes and caveats pertaining to the software.

In addition, Xerox Production Print Services software for Windows and Macintosh version 3.6, which includes the Xerox Document Submission software and various drivers and PPDs, is also now available. For more information, review the XPPS 3.6 customer letter.