

PDL Reference Guide for the Xerox WorkCentre 75xx Series Customer Tip



dc10cc0470

October 26, 2010

Accessing Extended Features

Overview

This document describes how to access the extended features of the WorkCentre 75xx Series in environments for which Xerox does not make a custom driver.

Note: Some of the commands and syntax used in this document requires familiarity with either PostScript (PS) or Printer Command Language (PCL).

This document provides the Printer Description Language (PDL) commands and syntax for each feature. The following tables are also included:

- features supported by the WorkCentre 75xx Series
- commands to use in a PCL print job
- commands to use in a PS print job

This document is not intended as a PS or PCL reference manual, but a guide for using the extended features in PS, PCL or ASCII print jobs.

Using this Guide

1. Refer to the Feature List for the feature you wish to implement. Select the page number to jump to that page.
2. Follow the syntax listed for the command you selected. Read the “Dependencies/Caveats” section. You can access features using several methods:
 - PCL or PS commands
 - PDL SET commands
 - Xerox specific COMMENT command.

Feature Listing

PCL and ASCII print jobs can use PDL commands or PCL commands to access the attributes of the device. If there is more than one method listed to access a specific feature, determine the best method for your application and use that method.

PostScript print jobs can use Document Structuring Commands (DSC) or PS commands. If there is more than one method listed to access a specific feature, determine the best method for your application and use that method.

For this document, both PDL COMMENT and DSC are referred to as Comment commands.

Getting Started

PCL and ASCII print jobs can use PCL commands or PCL commands to access the attributes of the device. If there is more than one method listed to access a specific feature, determine the best method for your application and use that method.

Comment Commands

To process all PCL COMMENT commands and DSC, enclose them with XRxBegin and XRXEnd commands.

Example PCL or ASCII print job:

```
@PJL COMMENT XRxBegin
@PJL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE ;
@PJL COMMENT XRXend
```

Example PS print job:

```
%%XRxBegin
%%OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE ;
%%XRXend
```

- The first parameter of the command is an attribute followed by a value.
- Comment commands must end with a semicolon except for the XRxBegin and XRXend commands.
- A comment command not enclosed by XRxBegin and XRXend is NOT a Xerox specific command and is treated as a real comment with no functional attachment to its contents.
- The comment commands are specific to the WorkCentre 57xx Series.

PJL SET Commands

PJL SET commands are available for some features. If you choose to use these commands, do not enclose them with the XRxBegin and XRXEnd commands.

PJL SET commands do not require a semicolon at the end of the command line.

PCL Commands

PCL commands are available for some features. If you choose to use these commands do not enclose them with the XRxBegin and XRXEnd commands. Refer to a PCL reference manual for more specific information regarding PCL commands.

PS Commands

PS commands are for some features. If you choose to use these commands, do not enclose them with the XRxBegin and XRXEnd commands. Refer to a PS reference manual for more specific information regarding PS commands.

Table of Contents

Accessing Extended Features.....	1
Overview	1
Using this Guide	1
Feature Listing.....	1
Getting Started.....	2
Comment Commands	2
PJL SET Commands.....	2
PCL Commands	2
PS Commands.....	2
XRBegin.....	5
XREnd.....	5
General Comment Commands.....	5
Job Name.....	5
Job Owner.....	5
Copies.....	5
Job Type.....	6
Delay Print.....	6
Fax Send.....	7
Banner Sheet (Start Sheet).....	8
Media Comment Commands.....	8
Media Source	8
Media Size	10
Custom Media Sizes	11
Media Type.....	12
Formatting Comment Commands.....	14
Collation.....	14
Feed Edge.....	14
Binding.....	14
Simplex / Duplex Printing.....	15
Finishing Comment Commands	15
Offset.....	15
Output Destination.....	16
Staple	16
Hole Punch	17
Fold.....	17
Booklet Fold.....	18
Booklet Staple.....	18
Image Quality	18
Print Quality.....	18
Color Mode.....	19
Print Job Accounting	19
Network Accounting.....	19
Internal Auditor.....	19
Covers.....	20
Front Cover Only.....	20
Front Cover Only Media Color.....	20
Front Cover Only Media Size.....	20
Front Cover Only Media Type	20
Front And Back Cover	21
Front And Back Cover Media Color	21
Front And Back Cover Media Size.....	21
Front And Back Cover Media Type.....	21
Interleave	22
Interleave Media Color	22

PJL/PCL Dependencies/Caveats.....	23
DSC/PS Dependencies/Caveats	23
Examples	24
Basic PCL/PJL Template	24
Sample PCL Headers.....	25
Basic PostScript/DSC Template	26
Supported PostScript Fonts	28
Supported PCL5 Fonts	29
Additional Information.....	29

XRXBegin	
When the interpreter receives this command it begins to parse PJI COMMENT commands to check for Xerox-specific commands until it receives the command to stop parsing.	
PJI COMMENT Command	DSC Comment Command
@PJI COMMENT XRXbegin	%%XRXbegin

XRXEnd	
When the interpreter receives this command it stops parsing PJI COMMENT commands.	
PJI COMMENT Command	DSC Comment Command
@PJI COMMENT XRXend	%%XRXend

General Commands

Job Name	
The value for Job Name is stored for printing on the banner page.	
PJI COMMENT Command	DSC Comment Command
@PJI COMMENT JOB NAME=" string ";	%%OID_ATT_JOB_NAME=" string ";
Where string is a maximum of 40 characters. This appears as the first item on the banner sheet.	

Job Owner	
The value for Job Owner is stored for printing on the banner page.	
PJI COMMENT Command	DSC Comment Command
@PJI COMMENT OID_ATT_JOB_OWNER " string ";	%%OID_ATT_JOB_OWNER " string ";
Where string is a maximum of 40 characters. This appears as the second item on the banner sheet.	

Copies		
Use this command to specify the number of non-collated sets of a document in a print job. With COPIES specified, the device renders X number of copies of page 1 of the document, X number of copies of page 2, and so on. Use the COLLATION command in conjunction with the COPIES command to set a collate value.		
PJI SET	PCL Cmd	PS Cmd
@PJI SET COPIES= int ;	uint16 int ubyte pagecopies	<</NumCopies int >>
Where int is 1 to 9999.		

Job Type	
The Job Type command indicates a job that requires special handling.	
PJL COMMENT Command	DSC Comment Command
@PJL COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_ <i>string</i> ;	%%OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_ <i>string</i> ;
Where <i>string</i> is one of the following:	
PRINT	Indicates a normal print job.
PROOF_PRINT	Comparable to Sample Set in a driver. This job type allows you to specify multiple copies with the @PJL SET COPIES command. One set prints for review. Then you can release or delete the job.
FAX_SEND	This job type directs a print job to use the embedded fax board and fax the job to a phone number instead of printing the job. See the FAX SEND command for the commands to provide the phone number and other fax options.

Delay Print	
Delays printing a job until the time specified by the command.	
PJL COMMENT Command	DSC Comment Command
@PJL COMMENT OID_ATT_JOB_PRINT_AFTER “ <i>yyyymmddhhmmss</i> ”;	%%OID_ATT_JOB_PRINT_AFTER “ <i>yyyymmddhhmmss</i> ”;
Where <i>yyyy</i> =year, <i>mm</i> =month, <i>dd</i> =day, <i>hh</i> =hours, <i>mm</i> =minutes, <i>ss</i> =seconds (always 00) The default delay time is midnight, 00:00:00	

Fax Send	
Must use with the FAX_SEND Job Type command.	
Required Commands	
PJL COMMENT Command	DSC Comment Command
@PJL COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_FAX_SEND; @PJL COMMENT OID_ATT_FAX_DESTINATION_PHONE "xxxx";	%%OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_FAX_SEND; %%OID_ATT_FAX_DESTINATION_PHONE "xxxx";
Where xxxx is the phone number and any special access numbers. If a dialing prefix is added, it must be immediately followed by a pause (comma) character. Each fax number can be up to 30 characters in length.	
Optional Commands	
@PJL COMMENT OID_ATT_FAX_COVER_SHEET string ;	%%OID_ATT_FAX_COVER_SHEET <i>string</i> ;
Where string is: TRUE FALSE	
@PJL COMMENT OID_ATT_FAX_CONFIRMATION_SHEET string ;	%%OID_ATT_FAX_CONFIRMATION_SHEET string ;
Where string is: TRUE FALSE	
@PJL COMMENT OID_ATT_FAX_RESOLUTION int ;	%%OID_ATT_FAX_RESOLUTION int ;
Where int is: 0 – Fine Resolution 1 – Standard Resolution 2 – Super Fine Resolution	
@PJL COMMENT OID_ATT_FAX_TYPE OID_VAL_FAX_TYPE string ;	%%OID_ATT_FAX_TYPE OID_VAL_FAX_TYPE string ;
Where string is: G3_AUTO = Super G3 (33.6kbps) G3_14400 G3 = (14.4kbps) G3_FORCED_4800 = Forced 4800 bps)	
@PJL COMMENT OID_ATT_CREDIT_CARD "xxxx"; Where xxxx is the credit card or charge code required to send the fax. Select this option and enter the credit card number (up to 16 digits) if you want to charge the fax call to a credit card. The credit card number is concealed on confirmation reports.	
<p>Characters for phone numbers, prefix numbers, credit cards, and other numeric entries.</p> <ul style="list-style-type: none"> * Begin DTMF # End DTMF : Switch to DTMF mode = Wait for dial tone. ! Used to designate a mailbox signal. , Used to initiate a pause period; default pause period is 3 seconds. / Used to delineate private data. \$ Signifies to wait for a confirmation dial tone. <1> Use preceding a fax number to specify which fax line should be used on systems that support dual fax lines. <2> Use preceding a fax number to specify which fax line should be used on systems that support dual fax lines. 	

Banner Sheet (Start Sheet)	
This command turns on/off the banner sheet that prints at the beginning of every job. It only applies to the job that contains the command; it does not affect any other jobs. If the device is configured to disable banner sheets, this command is ignored.	
PJL COMMENT Command	DSC Command
@PJL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_ " <i>string</i> ";	%%OID_ATT_START_SHEET OID_VAL_JOB_SHEET_ " <i>string</i> ";
Where <i>string</i> is:	
NONE	Do not create a banner sheet for this job.
FULL	Create a banner sheet for this job. By default, if the START SHEET comment is not included a banner sheet is generated unless the device has banner sheet disabled.
USER	A custom start sheet is included in this job.

Media Commands

Media Source		
This command specifies the tray to supply the job's media. These are PCL commands rather than PJL commands. Insert this command within the PCL portion of the print job.		
PS Cmd	featurebegin{ %%BeginFeature: *InputSlot <i>string</i> << (<i>string</i>) xerox\$MediaInputTray >> setpagedevice }featurecleanup where <i>string</i> is from the table below.	
PCL5 Cmd	<Esc>&l##l where # is the number assigned to the selection.	
PCL XL/6	ubyte ## attr_ubyte MediaSource Tray 1 example: 0xc0 0x04 0xf8 0x26 where ## is the hex number assigned to each selection.	
PS Cmd	PCL5	PCL XL/6
automatic	<Esc>&l7H	0x01
tray-1	<Esc>&l4H	0x04
tray-2	<Esc>&l1H	0x05
tray-3	<Esc>&l5H	0x07
tray-4	<Esc>&l8H	0x08
tray-5	<Esc>&l21H	0x0A
tray-6	<Esc>&l22H	0x09

PCL5 Command Tray Mapping Tool

A user with Administrator access rights to the device has the opportunity to change the PCL5 command used to identify a specific paper tray.

A user can do this by opening the device's internal web page by entering the device's IP address in their favorite web browser.

To get to the PCL Tray Mapping page select the Properties tab → Services → Printing → Page Description Languages → PCL → Tray Mapping. Once there the user is able to select which listed command will be used for a paper tray.

Warning: Changing the device's default mapping may cause issues when trying to select a paper tray with the PCL 5 driver.

The screenshot shows the Centware Internet Services interface for a Xerox WorkCentre 7556. The 'Properties' tab is selected, and the navigation path is: Properties → Services → Printing → Page Description Languages → PCL → Tray Mapping. The 'Tray Mapping' sub-tab is active, displaying a table of PCL commands and their corresponding tray assignments. The table has two columns: the PCL command and the selected tray. At the bottom of the page, there are buttons for 'Restore Feature Defaults', 'Undo', and 'Apply'.

Page Description Languages	
PCL	
General Settings Tray Mapping	
Options	
<esc>&l0H maps to	Auto Select
<esc>&l1H maps to	Tray 2
<esc>&l2H maps to	Tray 5 (Bypass)
<esc>&l3H maps to	Tray 5 (Bypass)
<esc>&l4H maps to	Tray 1
<esc>&l5H maps to	Tray 6
<esc>&l6H maps to	Tray 5 (Bypass)
<esc>&l7H maps to	Auto Select
<esc>&l8H maps to	Tray 4
<esc>&l20H maps to	Tray 4
<esc>&l21H maps to	Tray 5 (Bypass)
<esc>&l22H maps to	Tray 6
<esc>&l23H maps to	Tray 3
<esc>&l24H maps to	Auto Select
<esc>&l30H maps to	Tray 6
<esc>&l31H maps to	Auto Select
<esc>&l32H maps to	Auto Select
<esc>&l33H maps to	Tray 5 (Bypass)

Media Size							
This command specifies the size of media on which to print the job. These are PCL commands rather than PJI commands. Insert a media size command within the PCL portion of the print job.							
PCL5 Cmd				PS Cmd			
<esc> &l <i>int</i> A				<</PageSize [<i>width height</i>] /CustomPageSize false >> setpagedevice			
Where <i>int</i> is the number from the table below.				Where <i>width</i> and <i>height</i> (<i>w h</i>) are the numbers from the table below.			
PCL6 Cmd							
Defined Paper Size (Single number)				ubyte_array ubyte ## string attr_ubyte MediaSize example: 0xc8 0xc0 ## string 0xf8 0x25 where ## string is from the table below.			
Media Sizes	PCL5 <i>int</i>	PCL6 ## String	PS (<i>w h</i>) Points	Media Sizes	PCL5 <i>int</i>	PCL6 ## String	PS (<i>w h</i>) Points
Letter 8.5 x 11" (216 x 279 mm)	2	0x06 LETTER	612 X 792	B6 JIS (128 x 182 mm)	44	0x06 JIS B6	363 x 516
Legal 8.5 x 14" (216 x 356 mm)	3	0x05 LEGAL	612 X 1008	Executive 7.25 x 10.5" (184 x 266 mm)	1	0x04 EXEC	522 x 756
3 x 5 Index (76 x 127mm)	78	0x03 3X5	216 x 360	Foolscap, Euroletter, US Folio 8.5 x 13" (215 x 330 mm)	18	0x06 8.5X13	612 x 936
5 x 7" (127 x 177 mm)	122	0x03 5X7	360 x 504	Letter Tab 9 x 11" (228 x 279mm)	146	0x0d na-letter-tab	648 x 792
8 x 10" (203 x 254 mm)	144	0x07 na-8x10	576 x 720	Postcard 3.5 x 5.5" (88 x 139mm)	155	0x0a na-3.5x5.5	252 x 396
11 x 15" (279 x 381 mm)	159	0x08 na-11x15	792 x 1080	Postcard 4 x 6" (101 x 152 mm)	74	0x03 4X6	288 x 432
12 x 19" (304 x 482 mm)	149	0x08 na-12x19	864 x 1368	Postcard 6 x 9" (152 x 228 mm)	160	0x06 na-6x9	432 x 648
A3 (297 x 420 mm)	27	0x02 A3	842 X 1191	Postcard Hagaki (100 x 148 mm)	71	0x05 JPOST	284 x 420
A4 (210 x 297 mm)	26	0x02 A4	595 x 842	Postcard Oufuku Hagaki Dbl (148 x 200 mm)	72	0x06 JPOSTD	420 x 566
A4 Oversized (223 x 297 mm)	133	0x0b iso-a4-wide	632 x 842	Spanish Folio 215 x 315 mm	131	0x1c metric- 215x315- spanish-folio	609 x 893
A5 (148 x 210 mm)	25	0x02 A5	420 x 595	SRA3 (320 x 450 mm)	38	0x04 SRA3	907 x 1276
A6 (105 x 148 mm)	24	0x02 A6	297 x 420	Statement 5.5 x 8.5"	15	0x09 STATEMENT	396 x 612
B4 JIS (257 x 364 mm)	46	0x06 JIS B4	729 x 1032	Tabloid / Ledger 11 x 17" (279 x 431 mm)	6	0x06 LEDGER	792 X 1224
B5 JIS (182 x 257 mm)	45	0x06 JIS B5	516 x 729	Tabloid - Oversized 12 x 18" (304 x 457mm)	120	0x05 12X18	864 x 1296

<i>Envelope Sizes</i>	<i>PCL5 Int</i>	<i>PCL6 int</i>	<i>PS (W H) Points</i>	<i>Envelope Sizes</i>	<i>PCL5 Int</i>	<i>PCL6 int</i>	<i>PS (W H) Points</i>
#9 ½ Booklet 9 x 12" (228 x 304 mm)	180	0x10 na-9x12-envelope	648 x 864	C5 (162 x 229 mm)	91	0x02 C5	459 x 649
#10 4.125" x 9.5"	81	0x05 COM10	297 x 684	DL (110 x 220mm)	90	0x02 DL	312 x 624
C4 (229 x 324 mm)	171	0x12 iso-c4-envelope-c4	649 x 918	Monarch 3.875" x 7.5"	80	0x07 MONARCH	279 x 540

NOTE: When sending a job with a media size, there must be a MEDIA COLOUR "Unspecified" and MEDIA TYPE "Unspecified" PJI COMMENT command issued in the PDL.

Custom Media Sizes	
This command specifies the custom media size on which to print the job. Insert a media size command within the PCL portion of the print job.	
PS Cmd	<</PageSize [<i>width height</i>] /CustomPageSize true >> setpagedevice
PCL5 Cmd	[Esc]&f####I [Esc]&f####J [Esc]&l101A where #### is the physical dimension of the paper in 720ths of an inch.
PCL6	uint16_xy <i>x y</i> attr_ubyte CustomMediaSize ubyte eTenthsOfAMillimeter attr_ubyte CustomMediaSizeUnits ISO B6 example: 0xd1 0xe2 0x04 0xe0 0x06 0xf8 0x2f 0xc0 0x02 0xf8 0x30 where <i>x</i> is the width (1/10mm) in hex (lsb, msb) and <i>y</i> is the length (1/10mm) in hex (lsb, msb)

Media Type		
Media types are used to distinguish the type of media a job requires. If using the Media Source command, set the Media Type command to Unspecified.		
PS Cmd	<</MediaType (<i>string</i>) >> setpagedevice	
PCL5 Cmd	<Esc>&n#Wd <i>string</i> where # is the length of string+1 and string from the table below	
PCL6	ubyte_array uint16 ## ## string attr_ubyte MediaType Example: 0xc8 0xc1 0x0C 0x00 transparency 0xf8 0x27 where ## ## is the length of the string in hex (lsb, msb), and the string from the table below.	
PS String Value	PCL5 Cmd	PCL6 Hexadecimal and String
use-any	<Esc>&n8Wduse-any	0x07 0x00 use-any
use-ready	<Esc>&n10Wduse-ready	0x09 0x00 use-ready
stationery-lightweight	<Esc>&n23Wdstationery-lightweight	0x16 0x00 stationery-lightweight
stationery	<Esc>&n11Wdstationery	0x0A 0x00 stationery
stationery-reloaded	<Esc>&n20Wdstationery-reloaded	0x13 0x00 stationery-reloaded
stationery-heavyweight	<Esc>&n23Wdstationery-heavyweight	0x16 0x00 stationery-heavyweight
transparency	<Esc>&n13Wdtransparency	0x0C 0x00 transparency
cardstock	<Esc>&n10Wdcardstock	0x09 0x00 cardstock
cardstock-reloaded	<Esc>&n19Wdcardstock-reloaded	0x12 0x00 cardstock-reloaded
cardstock-lightweight	<Esc>&n22Wdcardstock-lightweight	0x15 0x00 cardstock-lightweight
cardstock-lightweight-reloaded	<Esc>&n31Wdcardstock-lightweight-reloaded	0x1E 0x00 cardstock-lightweight-reloaded
cardstock-heavyweight	<Esc>&n22Wdcardstock-heavyweight	0x15 0x00 cardstock-heavyweight
cardstock-extra-heavyweight	<Esc>&n28Wdcardstock-extra-heavyweight	0x1B 0x00 cardstock-extra-heavyweight
envelope	<Esc>&n9Wdenvelope	0x08 0x00 envelope
labels	<Esc>&n7Wdlabels	0x06 0x00 labels
stationery-letterhead	<Esc>&n22Wdstationery-letterhead	0x15 0x00 stationery-letterhead
stationery-recycled	<Esc>&n20Wdstationery-recycled	0x13 0x00 stationery-recycled
other	<Esc>&n6Wdother	0x05 0x00 other
stationery-pre-printed	<Esc>&n23Wdstationery-pre-printed	0x16 0x00 stationery-pre-printed
stationery-pre-punched	<Esc>&n23Wdstationery-pre-punched	0x16 0x00 stationery-pre-punched
cardstock-lightweight-glossy	<Esc>&n29Wdcardstock-lightweight-glossy	0x1C 0x00 cardstock-lightweight-glossy
cardstock-lightweight-glossy-reloaded	<Esc>&n38Wdcardstock-lightweight-glossy-reloaded	0x25 0x00 cardstock-lightweight-glossy-reloaded
cardstock-glossy	<Esc>&n17Wdcardstock-glossy	0x10 0x00 cardstock-glossy
cardstock-glossy-reloaded	<Esc>&n26Wdcardstock-glossy-reloaded	0x19 0x00 cardstock-glossy-reloaded
cardstock-heavyweight-glossy	<Esc>&n29Wdcardstock-heavyweight-glossy	0x1C 0x00 cardstock-heavyweight-glossy
stationery-colored	<Esc>&n19Wdstationery-colored	0x12 0x00 stationery-colored
bond	<Esc>&n5Wdbond	0x04 0x00 bond

PS String Value	PCL5 Cmd	PCL6 Hexadecimal and String
custom1	<Esc>&n8Wdcustom1	0x07 0x00 custom1
custom2	<Esc>&n8Wdcustom2	0x07 0x00 custom2
custom3	<Esc>&n8Wdcustom3	0x07 0x00 custom3
custom4	<Esc>&n8Wdcustom4	0x07 0x00 custom4
custom5	<Esc>&n8Wdcustom5	0x07 0x00 custom5

Media Color		
Use this command to indicate the color of the media used to print a job. The strings are case sensitive with the first letter capitalized and the rest lower-case. When using a Media Source command, issue a Media Type command set to Unspecified.		
PS Cmd	<</MediaColor (<i>string</i>) >> setpagedevice	
PCL5 Cmd	<Esc>&n#Westring where # is the length of string+1; and <i>string</i> from the table below	
PCL XL/6	ubyte_array uint16 ## ## string attr_ubyte MediaColor Example: 0xc8 0xc1 0x20 0x00 <media-color>white</media-color> 0xf8 0x81 0x47 where ## ## is the length of the string in hex (lsb, msb), and the <i>string</i> from the table below.	
PS String Value	PCL5 Cmd	PCL XL/6 Hexadecimal and String
use-any	<Esc>&n8Wxuse-any	0x22 0x00 <media-color>use-any</media-color>
white	<Esc>&n6Wxwhite	0x20 0x00 <media-color>white</media-color>
blue	<Esc>&n6Wxblue	0x20 0x00 <media-color>blue</media-color>
yellow	<Esc>&n7Wxyellow	0x21 0x00 <media-color>yellow</media-color>
green	<Esc>&n6Wxgreen	0x20 0x00 <media-color>green</media-color>
pink	<Esc>&n5Wxpink	0x1F 0x00 <media-color>pink</media-color>
no-color	<Esc>&n9Wxno-color	0x23 0x00 <media-color>no-color</media-color>
ivory	<Esc>&n6Wxivory	0x20 0x00 <media-color>ivory</media-color>
gray	<Esc>&n5Wxgray	0x1F 0x00 <media-color>gray</media-color>
buff	<Esc>&n5Wxbuff	0x1F 0x00 <media-color>buff</media-color>
goldenrod	<Esc>&n10Wxgoldenrod	0x24 0x00 <media-color>goldenrod</media-color>
red	<Esc>&n4Wxred	0x1E 0x00 <media-color>red</media-color>
orange	<Esc>&n7Wxorange	0x21 0x00 <media-color>orange</media-color>
other	<Esc>&n6Wxoother	0x20 0x00 <media-color>other</media-color>
custom1	<Esc>&n8Wxcustom1	0x22 0x00 <media-color>custom1</media-color>
custom2	<Esc>&n8Wxcustom2	0x22 0x00 <media-color>custom2</media-color>
custom3	<Esc>&n8Wxcustom3	0x22 0x00 <media-color>custom3</media-color>
custom4	<Esc>&n8Wxcustom4	0x22 0x00 <media-color>custom4</media-color>
custom5	<Esc>&n8Wxcustom5	0x22 0x00 <media-color>custom5</media-color>

Formatting Commands

Collation	
This attribute controls the collation status of the output. COLLATE results in sets of pages, for example two copies of a 3-page job results in pages 1 through 3 printed, then pages 1 through 3 printed again. NO_PAGE COLLATE results in page 1 printing twice, page 2 printing twice and page 3 printing twice.	
PJL COMMENT Command	PS Set Page
@PJL COMMENT OID_ATT_OUTPUT <i>string</i> ;	/Collate true /Collate false
Where <i>string</i> is one of the following: OID_VAL_OUTPUT_PAGE_COLLATE OID_VAL_OUTPUT_NO_PAGE_COLLATE	

Feed Edge		
The values indicate the feed edge to use. Feeds paper so that Leading Edge of paper is the shorter side.		
PJL COMMENT Command	DSC Comment Command	PS Set Page
@PJL COMMENT OID_ATT_FEED_EDGE <i>string</i> ;	%% OID_ATT_FEED_EDGE <i>string</i> ;	/Leading Edge <i>integer or null</i>
Where <i>string</i> is: OID_VAL_FEED_EDGE_SHORT_LEADING OID_VAL_FEED_EDGE_SHORT_TRAILING OID_VAL_FEED_EDGE_LONG_LEADING OID_VAL_FEED_EDGE_LONG_TRAILING		<i>null</i> = use default orientation for specified PageSize to select which edge is the top of the page. 0 = Short edge, leading edge is the top of the page. 2 = Short edge, trailing edge is the top of the page.

Binding
BINDING defines along which edge a duplex page is flipped. In portrait orientation, LONGEDGE binding indicate pages turn as in a book, SHORTEdge binding indicates pages turn as those in a flip chart. In printing/graphic arts nomenclature, SHORTEdge is analogous to DUPLEX TUMBLE. BINDING is ignored if the document is simplex.
PJL SET
@PJL SET BINDING= <i>string</i>
Where <i>string</i> is: SHORTEdge LONGEDGE

Simplex / Duplex Printing				
This command specifies if a job is to print on one side or both sides of the sheet. Choose one of the methods below for indicating this feature.				
PS Cmd	See commands in table below			
PCL5 Cmd	<Esc>&l#S where # is the number assigned to the selection			
PCL XL/6	See commands in table below			
	PostScript	PCL5	PCL XL/6	
one-sided	/Duplex false /Tumble false	<Esc>&l0S	0xc0 0x00 0xf8 0x34 [ubyte eSimplexFrontSide attr_ubyte SimplexPageMode]	
two-sided-long-edge	/Duplex true /Tumble false	<Esc>&l1S	Portrait	0xc0 0x00 0xf8 0x35 [ubyte eDuplexHorizontalBinding attr_ubyte DuplexPageMode]
			Landscape	0xc0 0x01 0xf8 0x35 [ubyte eDuplexVerticalBinding attr_ubyte DuplexPageMode]
two-sided-short-edge	/Duplex true /Tumble true	<Esc>&l2S	Portrait	0xc0 0x01 0xf8 0x35 [ubyte eDuplex VerticalBinding attr_ubyte DuplexPageMode]
			Landscape	0xc0 0x00 0xf8 0x35 [ubyte eDuplexHorizontalBinding attr_ubyte DuplexPageMode]

Finishing Commands

Offset	
This feature provides a physical offset of hard copy that distinguishes between sets or stacks within a job.	
PJL SET Cmd	PS Cmd
@PJL SET JOBOFFSET= <i>string</i>	<</Jog <i>int</i> >>
Where <i>string</i> is: ON OFF	Where <i>int</i> is: 0 = no offset 3 = offset each set

Output Destination		
Indicates the output bin where the print job is sent.		
Tray	PS Set Page	PJL Command
Simple Catch Tray Offset Catch Tray	/OutputType (MiddleTray)	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_MIDDLE;
Top output tray of finisher	/OutputType (TopTray)	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_TOP;
Finisher stacker tray	/OutPutType (Stacker)	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_STACKER;
Booklet Maker Bin	No Command	No command required, this is the only possible physical destination for Bi-Fold and Booklet Finishing jobs
Envelope Folder	No Command	No command required, this is the only possible physical destination for C and Z Tri-Folded Jobs
Auto	Omit Command	Omit Command

Staple	
This command indicates use and location of staple(s).	
PJL COMMENT Command	PS SET Page
@PJL COMMENT XRXSTAPLE= string ;	/Staple int /StapleDetails<</Type 1 /StapleLocation(" string ")
Where string is: PORTRAIT LANDSCAPE DUAL	Where int is: 0 = No Staple 3 = Staple at end of set Where string is: SinglePortrait SingleLandscape DualLandscape Multiple
The following command indicates use of a multiple staples (4).	
@PJL COMMENT OID_ATT_FINISHING OID_VAL_FINISHING_STAPLE_MULTIPLE;	

Hole Punch		
This command indicates hole punches for a print job on a device with hole punch capability.		
PJL COMMENT Cmd	DSC Comment Cmd	PS Cmd
@PJL COMMENT OID_ATT_PUNCH <i>int</i> ;	%%OID_ATT_PUNCH <i>int</i> ;	<</Punch <i>int1</i> /PunchDetails <</Type 6 /NumHoles <i>int2</i> >>>>
Where <i>int</i> is: 0 = Punch Off 1 = Punch On 2 = Use 2 Hole Punch 3 = Use 3 Hole Punch 4 = Use 4 Hole Punch Note: <i>int</i> 1 will be emitted to invoke the default punch setting on the device. Note: Setting NumHoles to 1 causes a punch with the default number of holes.		Where <i>int1</i> is: 0 for Punch Off 4 for Punch On after each showpage or copy page operation. Where <i>int2</i> is: 0 = Punch Off 1 = Punch On 2 = 2 Hole Punch 3 = 3 Hole Punch 4 = 4 Hole Punch Note: Setting NumHoles to 1 causes a punch with the default number of holes.

Fold		
This command indicates an optional fold type generated by the professional finisher. The short edge feed command is also required to use the booklet fold command.		
PJL COMMENT Cmd	DSC Comment Cmd	PS Set Page
@PJL COMMENT OID_ATT_FOLD <i>string</i> ;	%%OID_ATT_FOLD OID_VAL_FOLD_ <i>string</i> ;	/Fold <i>int1</i> /FoldDetails /Type 5 /FoldMethod <i>int2</i>
Where <i>string</i> is: TRIFOLD C TRIFOLD Z ZFOLD		Where <i>int1</i> is: 0 = No Fold 3 = Fold at end of set Where <i>int2</i> is: 1 = TriFold C 2 = TriFold Z 3 = Z-Fold HalfSheet
Note: <ul style="list-style-type: none"> • TriFold C requires a LeadingEdge 0 and/or OID_VAL_FEED_EDGE_SHORT_LEADING command to insure SEF feeding. • TriFold Z requires a LeadingEdge 0 and/or OID_VAL_FEED_EDGE_SHORT_LEADING command. 		

Booklet Fold		
This command indicates an optional fold type generated by the professional finisher. The short edge feed command is also required to use the booklet fold command.		
PJL COMMENT Cmd	DSC Comment Cmd	PS Set Page
@ PJL COMMENT OID_ATT_BOOKLET OID_VAL_BOOKLET_NOSTAPLE; @PJL COMMENT OID_ATT_FINISHING OID_VAL_FINISHING_BOOKLET @ PJL COMMENT OID_ATT_FEED_EDGE OID_VAL_FEED_EDGE_SHORT_T RAILING	%%OID_ATT_BOOKLET OID_VAL_BOOKLET_NOSTAPLE; %%OID_ATT_FINISHING OID_VAL_FINISHING_BOOKLET; %%OID_ATT_FEED_EDGE OID_VAL_FEED_EDGE_SHORT_T TRAILING;	/Booklet true /BookletDetails /Type 2 /Staples 0 /LeadingEdge 2

Booklet Staple		
This command indicates staples for folded print jobs. Use with booklet fold commands above.		
PJL COMMENT Cmd	DSC Comment Cmd	PS Set Page
@PJL COMMENT OID_ATT_BOOKLET_ <i>string</i> ;	%%OID_ATT_BOOKLET OID_VAL_BOOKLET_ <i>string</i> ;	/Booklet <i>string</i> /BookletDetails /Type 2 /Staple <i>int</i> /LeadingEdge 2
Where <i>string</i> is: STAPLE NOSTAPLE		Where string is <i>true</i> or <i>false</i> Where int is 0 = Do not staple 2 = 2 Staples

Image Quality Commands

Print Quality	
This command sets the resolution value.	
PS Command	<pre> <</PostRenderingEnhance true /PostRenderingEnhanceDetails currentpagedevice 1 index get 1 dict copy dup /Type 33 put dup /OutputMode (<i>string</i>) put >> setpagedevice where <i>string</i> is one of the following. toner-saver standard enhanced highest-resolution </pre>

Color Mode	
Use this command to adjust the delivery of color rendering.	
PS Command	<</ProcessColorModel <i>string</i> >> setpagedevice where <i>string</i> is either deviceCMYK for color or deviceGray for monochrome grayscale.
PCL5 Command	There is no page-level PCL 5 command for this attribute.
PCL XL/6 Command	There is no page-level PCL XL/6 command for this attribute.

Print Job Accounting Commands

Network Accounting	
Allows User ID data to be sent with job for the purposes of Job-based accounting.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID, <i>xxxx</i> "	%%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID, <i>xxxx</i> "
Where <i>xxxx</i> is actual User ID entered by user.	
Allows Account ID data to be sent with job for the purposes of Job-based accounting.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_ACCTID, <i>yyyy1</i> "	%%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_ACCTID, <i>yyyy</i> "
Where <i>yyyy</i> is actual Account ID entered by user.	

Internal Auditor	
This PJL command sends the users pin number for use by devices that support the Internal Auditor or Xerox Standard Accounting (XSA). You must provide at least a valid USERID. You may also provide a GENERAL Account number or GROUP Account number if required.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID, <i>xxxx</i> "; @PJL COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GENERALACCT, <i>yyyy</i> "; @PJL COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GROUPACCT, <i>zzzz</i> ";	%%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID, <i>xxxx</i> "; %%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GENERALACCT, <i>yyyy</i> "; %%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GROUPACCT, <i>zzzz</i> ";
Where <i>xxxx</i> is a valid USER Pin number. Where <i>yyyy</i> is a valid GENERAL Account number. Where <i>zzzz</i> is a valid GROUP Account number.	

Cover Commands

Front Cover Only	
This command specifies a job has a front (only) cover sheet and whether the cover sheet is imaged (TRUE) or blank (FALSE).	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRST_PAGE_IMAGED " String ";	%%OID_ATT_FIRST_PAGE_IMAGED " String ";
Where string is: TRUE FALSE	

Front Cover Only Media Color	
This command indicates the first page of a job is to print on media of a specified color. Requires that OID_ATT_FIRST_PAGE_IMAGED is also used.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRST_PAGE_MEDIA_COLOR " string ";	%%OID_ATT_FIRST_PAGE_MEDIA_COLOR " string ";
Where string is one of the following. Entries are case sensitive. White, Yellow, Green, Buff, Red, Ivory, Gray, Clear, Pink, Goldenrod, Orange, Unspecified, Blue, Other, Custom1, Custom2, Custom3, Custom4, Custom5, Custom6, Custom7	

Front Cover Only Media Size	
This command indicates the first page of a job is to print on media of a specified size. Requires that OID_ATT_FIRST_PAGE_IMAGED is also used.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRST_PAGE_MEDIA_SIZE " mm mm ";	%%OID_ATT_FIRST_PAGE_MEDIA_SIZE " mm mm ";
Where mm mm is one of the metric sizes listed in the MEDIA SIZE table.	

Front Cover Only Media Type	
This command indicates the first page of a job is to print on media of a specified type. Requires that OID_ATT_FIRST_PAGE_IMAGED is also used.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRST_PAGE_MEDIA_TYPE " string ";	%%OID_ATT_FIRST_PAGE_MEDIA_TYPE " string ";
Where string is one of the following. Entries are case sensitive. Standard, Transparency, Labels, Drilled, Recycled, Preprinted, Envelopes, Cardstock, HeavyWeight2, Bond, Lightweight, LightCardStock, LightCardStock2, LightGlossy, LightGlossy2, HeavyGlossy, HeavyGlossy2, Tabs, Letterhead, Custom1, Custom2, Custom3, Custom4, Custom5, Custom6, Custom7, Unspecified, Other, System-Default	

Front And Back Cover	
This command indicates the first and last pages of a job are covers. Do not use this command in conjunction with the FIRST_PAGE_IMAGED.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRSTLAST_PAGE_IMAGED " <i>string</i> ";	%%OID_ATT_FIRSTLAST_PAGE_IMAGED " <i>string</i> ";
Where <i>string</i> is: TRUE FALSE	

Front And Back Cover Media Color	
This command indicates the first and last page of a job is to print on media of a specified color. Requires that OID_ATT_FIRSTLAST_PAGE_IMAGED is also used.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRSTLAST_PAGE_MEDIA_COLOR " <i>string</i> ";	%%OID_ATT_FIRSTLAST_PAGE_MEDIA_COLOR " <i>string</i> ";
Where <i>string</i> is one of the following. Entries are case sensitive. White, Yellow, Green, Buff, Red, Ivory, Gray, Clear, Pink, Goldenrod, Orange, Unspecified, Blue, Other, Custom1, Custom2, Custom3, Custom4, Custom5, Custom6, Custom7	

Front And Back Cover Media Size	
Overrides the document's media size for the first and last sheet. Requires OID_ATT_FIRSTLAST_PAGE_IMAGED to be used also.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRSTLAST_PAGE_MEDIA_SIZE " <i>mm mm</i> ";	%%OID_ATT_FIRSTLAST_PAGE_MEDIA_SIZE " <i>mm mm</i> ";
Where <i>mm mm</i> is one of the metric sizes listed in the MEDIA SIZE table.	

Front And Back Cover Media Type	
Overrides the document's media type for the first and last sheet. Requires OID_ATT_FIRSTLAST_PAGE_IMAGED to be used also.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_FIRSTLAST_PAGE_MEDIA_TYPE " <i>string</i> ";	%%OID_ATT_FIRSTLAST_PAGE_MEDIA_TYPE " <i>string</i> ";
Where <i>string</i> is one of the following. Entries are case sensitive. Standard, Transparency, Labels, Drilled, Recycled, Preprinted, Envelopes, Cardstock, HeavyWeight2, Bond, Lightweight, LightCardStock, LightCardStock2, LightGlossy, LightGlossy2, HeavyGlossy, HeavyGlossy2, Tabs, Letterhead, Custom1, Custom2, Custom3, Custom4, Custom5, Custom6, Custom7, Unspecified, Other, System-Default.	

Interleave	
This command identifies the type of page to insert between sets.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_INTERLEAVE OID_VAL_INTERLEAVE_ <i>string</i> ;	%%OID_ATT_INTERLEAVE OID_VAL_INTERLEAVE_ <i>string</i> ;
Where <i>string</i> is one of the following: NONE BLANK IMAGED	

Interleave Media Color	
This command identifies the color of the interleaved pages.	
PJL COMMENT Cmd	DSC Comment Cmd
@PJL COMMENT OID_ATT_INTERLEAVE_COLOR " <i>string</i> ";	%%OID_ATT_INTERLEAVE_COLOR " <i>string</i> ";
Where <i>string</i> is one of the following. Entries are case sensitive. White, Blue, Yellow, Green, Pink, Clear, Ivory, Gray, Buff, Goldenrod, Red, Orange, Other, Custom1, Custom2, Custom3, Custom4, Custom5, Custom6, Custom7	

PJL/PCL Dependencies/Caveats

- Locate all PJP commands in the first 64KB of the job.
- To combine printer escape commands (not including PJP commands):
 - The first two characters after the <esc> MUST be the same.
 - All alpha characters MUST be lowercase, except the final terminating character.
 - The commands are read left to right. Combine them in the order you wish them executed.
For example, print 5 copies (<ESC>&15X) and use letter size (<ESC>&12A) is combined as: <ESC>&15x2A
- In case of duplicate commands, the last one requested takes precedence.
- The @PJP SET COPIES takes precedence over the PCL Escape Command (<ESC> & 1 int X>) to determine number of copies. In general, a PJP command takes precedence over a PCL command.
- When printing a job with an odd number of pages and duplex front and back imaged covers, the printer always prints on both sides of the front and back covers. The remaining pages are printed on the document body media type and color with a blank page inserted to allow an image on both sides of the back cover.
- When using the Blank Front or the Blank Front & Back Cover command, the Cover Media Size command is optional. If the cover size command is not in the PDL, the printer assumes the cover media size is the same as the document body.
- Use one of the following methods to specify media selection:
 - Describe the media attributes with size, color, and type and allow the device to select the matching source tray. If the media description method is used, leave source tray selection out of the request or set to Auto. If not, the tray selection defeats the auto tray selection capabilities of the device.
 - Indicate the tray to supply media. If the source tray method is used, the system automatically defaults paper type to the defined SYSTEM DEFAULT unless specified otherwise. This prevents inadvertent use of special paper types. To override, include a paper type specification of UNSPECIFIED in the job.

DSC/PS Dependencies/Caveats

- All %% commands (DSC comments) must be in the first 64KB of the job.
- WorkCentres supports PostScript resolutions up to and including 1800 x 1800. Some PostScript jobs may not print if the high resolution is indicated. If this occurs, print the same job at a lower resolution.
- The following media sizes do not print duplex and do not support staple commands: A6, B6, 5 x 7" Postcard (4.5 x 6"), envelopes and any custom sized media where the page width is less than 5.5". A request to duplex or staple these media sizes is ignored.
- Jobs that indicate Transparencies, Labels, Envelopes or Tab-Stock do not support duplex commands. The duplex print request is ignored when any of these media types are used.
- When printing an odd number of pages in a document with duplex front and back imaged covers, the printer always prints on both sides of the front and back covers. The remaining pages print on the document body media type and color with a blank page inserted to allow an image on both sides of the back cover.
- When using the Blank Front or the Blank Front and Back Cover command, the Cover Media Size command is optional. If the Cover Media Size command is not in the PDL, the printer assumes the cover media size as that of the document body.
- Use one of the following methods to specify media selection:
 - Describing the media attributes with size, color, and type and allowing the device to select the matching source tray. If the media description method is used, leave source tray selection out of the request or specifically set to Auto. Otherwise, the tray selection defeats the auto tray selection capabilities of the device.
 - Specifically indicate the tray to feed from. If the source tray method is used, the system automatically defaults paper type to the defined SYSTEM DEFAULT unless specified otherwise. This occurs to prevent inadvertent use of special paper types. To override, include a paper type specification of UNSPECIFIED in the job.

Examples

Basic PCL/PJL Template

This section illustrates a standard PCL template example that is used to access general print features. This example lists each feature and the syntax, both PCL commands and PJL, required to use these features.

Note: This section is only an example that may include features and commands that do not exist for this product.

Note:

This print job specifies the following items:

- Job owner
- Job name
- 11 x 17 paper size
- Heavyweight
- Green paper
- 1 staple
- Sample set
- Draft mode

Note:

The quotations in the Job Name and Job Owner lines are required.

Section 1 (Opening Command, Required for all files)

```
<ESC>%-12345X@PJL JOB
```

Section 2 (PJL Set Commands)

```
@PJL SET RESOLUTION=600
@PJL SET COPIES=1
@PJL SET DENSITY=4
@PJL SET JOBOFFSET=ON
```

Section 3 (XRXbegin – Opening Comment Statement, Required)

```
@PJL COMMENT XRXbegin
```

Section 4 (PJL Comments)

```
@PJL COMMENT OID_ATT_JOB_NAME "Readme.txt";
@PJL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE;
@PJL COMMENT OID_ATT_JOB_OWNER "John Smith";
@PJL COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PRINT;
@PJL COMMENT OID_ATT_DEFAULT_MEDIUM_TYPE "Cardstock";
@PJL COMMENT OID_ATT_DEFAULT_MEDIUM_COLOUR "Green";
@PJL COMMENT OID_ATT_PRINT_QUALITY OID_VAL_PRINT_QUALITY_DRAFT;
@PJL COMMENT OID_ATT_FINISHING OID_VAL_FINISHING_STAPLE;
@PJL COMMENT XRXSTAPLE=PORTRAIT;
"6.15.0.128.95.124.157.20.0.1.11.4";
```

Section 5 (XRXend - Closing Statement for Comment Section, Required)

```
@PJL COMMENT XRXend
```

Section 6 (PCL Code used to invoke PCL Language)

```
@PJL ENTER LANGUAGE=PCL
```

Section 7 (PCL Data Stream or ASCII Document inserted here for Options such as Selecting Different Fonts, Simplex, Duplex, etc.)

[Document or Text to print inserted here]

```
_%1BINWU0PW0,0PW0,1UL1,60,40UL2,12.5,12.5,12.5,12.5,12.5,12.5,12.5,12.5UL3,
40,25,10,25UL4,35,15,10,15,10,15LT0,10,1TLA1,4,2,1SP1TR0CF2_%1A_&I1X_&I1S
_&I0H_&I0o6a4d1E_*t600R_*v1onT_*rF_*c7181x4609Y_*p162x555Y_*cT_*pxY_%1BI
P0,0,1016,1016SC0,600,0,600;_%1A_*v1O_*v1T_%0BFT10,0;_%0A_*p544x855Y_*c
2160a3200b1P_(19U_(s4099t0b0s20.00h0P_*vT_%0BFT;_%0A_*p544x883Y
```

Section 8 (Closing Command, Required at end of Document)

```
<ESC>%-12345X
```


Sample PCL Headers

Note: This section is only an example that may include features and commands that do not exist for this product.

Note:

This is a simple print job header specifying the Job Owner and Job Name and one copy.

The quotations in the Job Owner and Job Name lines are required.

Example 1 Header for Simple Print

```
<ESC>%-12345X@PJL JOB
@PJL SET COPIES= 1
@PJL COMMENT XRXbegin
@PJL COMMENT OID_ATT_JOB_OWNER "John Smith";
@PJL COMMENT OID_ATT_JOB_NAME "Print Job";
@PJL COMMENT XRXend
[Insert document or text to be printed here]
<ESC>%-12345X
```

Note:

This is a proof print job header that requests 6 copies.

Example 2 Header for Proof Print

```
<ESC>%-12345X@PJL JOB
@PJL SET COPIES= 6
@PJL COMMENT XRXbegin
@PJL COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PROOF_PRINT
@PJL COMMENT XRXend
[Insert document or text to print here]
<ESC>%-12345X
```

Note:

This is a proof print job header requesting the staple option. You must send the job to the stacker using the native PCL command.

Example 3 Header for Finishing Options

```
<ESC>%-12345X@PJL JOB
@PJL COMMENT XRXbegin
@PJL COMMENT OID_ATT_JOB_OWNER "John Smith"
@PJL COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PROOF_PRINT;
@PJL COMMENT OID_ATT_FINISHING OID_VAL_FINISHING_STAPLE;
@PJL COMMENT XRXSTAPLE=PORTRAIT;
@PJL COMMENT XRXend
<ESC>\027&I2G
[Insert document or text to print here]
<ESC>%-12345X
```

Basic PostScript/DSC Template

This section is an example of a standard PostScript template that is used to access general print features. This template lists each feature and the syntax, both Postscript commands and DSC (Document Structuring Conventions) required.

Note: This section is only an example that may include features and commands that do not exist for this product.

Section 1 (Adobe Reference Command)

%!PS

Section 2 (XRXbegin - Opening Comment Statement, Required)

%% XRXbegin

Section 3 (OID Commands)

```
%%OID_ATT_JOB_OWNER "John Smith";
%%OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PRINT;
%%OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE;
%%OID_ATT_JOB_NAME "Readme.txt";
%%OID_ATT_PRINT_QUALITY OID_VAL_PRINT_QUALITY_DRAFT;
```

Section 4 (XRXend - Closing statement for Comment Section, Required)

%% XRXend

Section 5 (Options Such as Selecting Different Fonts, Simplex, Duplex, etc.)

```
<< /PostRenderingEnhance false >> setpagedevice
    << /Staple 0 >> setpagedevice
    << /Jog 0 >> setpagedevice
    << /ManualFeed false >> setpagedevice
    << /MediaType (Drilled) >> setpagedevice
    << /MediaColor (Ivory) >> setpagedevice
<< /DeviceRenderingInfo << /Type 4 /ValuesPerColorComponent 2 >>
    /HWResolution [1200 1200] >> setpagedevice
    << /PageSize [792 1224] /ImagingBBox null >> setpagedevice
    << /Duplex true /Tumble false >> setpagedevice
    << /Collate false >> setpagedevice
```

Section 6 (Postscript Data Stream Inserted Here)

[Postscript]

Section 7 (EOF - Closing Statement for PostScript File, Required)

%%EOF

Note:

The print job specifies the following items:

- Job owner
- Job name
- 11 x 17 paper size
- Drilled
- Ivory paper
- 1200 x 1200 resolution
- Staple off
- Landscape
- Sample set
- Draft mode
- Offset off
- Banner sheet off
- Duplex long edge
- One copy

The quotations in the Job Name and Job Owner lines are required.

Note:

The header for simple print specifies the Job Owner, Job Name, and one copy.

The quotations in the Job Owner and Job Name lines are required.

Example 1 Header for Simple Print0

```
%!PS
%%XRXbegin
%%OID_ATT_JOB_OWNER "John Smith"
%%OID_ATT_JOB_NAME "Print Job"
%%OID_ATT_COPY_COUNT 1
%%XRXend
```

Note:

This is a proof print job header. This job requests 6 copies.

Example 2 Header for Proof Print

```
%!PS
%%XRXbegin
%%OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PROOF_PRINT
%%OID_ATT_COPY_COUNT 6
%%XRXend
```

Note:

This job header specifies the following items:

- 10 copies
- Duplex
- Collated
- Stapled
- Sent to the main tray
- Job name
- Bold image quality

Note: To use the staple and collate features, you must send the output to the stacker.

Example 3 Header for Finishing Options

```
%!PS
%%XRXbegin
%%OID_ATT_JOB_OWNER "John Smith"
%%XRXend
<</PageSize [612 792]>>setpagedevice
<</OutputType (MainTray)>>setpagedevice
<</Staple 3>>setpagedevice
<</Duplex true /Tumble false>> setpagedevice
<</PostRenderingEnhance true>>setpagedevice
<</Collate true>>setpagedevice
<</NumCopies 10>>setpagedevice
```

Supported PostScript Fonts

AdobeSansMM
AdobeSerifMM
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-Regular
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
GreekMono737
GreekMono737-Bold
GreekMono737-BoldItalic
GreekMono737-Italic
GreekMono851
GreekMono851-Bold
GreekMono851-BoldItalic
GreekMono851-Italic
GreekMono8859-7
GreekMono8859-7Bold
GreekMono8859-7BoldItalic
GreekMono8859-7Italic
GreekSans737
GreekSans737-Bold
GreekSans737-BoldItalic
GreekSans737-Italic
GreekSans851
GreekSans851-Bold
GreekSans851-BoldItalic
GreekSans851-Italic
GreekSans8859-7
GreekSans8859-7Bold
GreekSans8859-7BoldItalic
GreekSans8859-7Italic
GreekSerif737
GreekSerif737-Bold
GreekSerif737-BoldItalic
GreekSerif737-Italic
GreekSerif851
GreekSerif851-Bold
GreekSerif851-BoldItalic
GreekSerif851-Italic
GreekSerif8859-7
GreekSerif8859-7Bold
GreekSerif8859-7BoldItalic
GreekSerif8859-7Italic
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
Monaco
MonaLisa-Recut
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
Wingdings-Regular
ZapfChancery-MediumItalic
ZapfDingbats

Supported PCL5 Fonts

Albertus Extra Bold
Albertus Medium
Antique Olive
Antique Olive Bold
Antique Olive Italic
Arial
Arial Bold
Arial Bold Italic
Arial Italic
CG Omega
CG Omega Bold
CG Omega Bold Italic
CG Omega Italic
CG Times
CG Times Bold
CG Times Bold Italic
CG Times Italic
Clarendon Condensed
Coronet
Courier
Courier Bold
Courier Bold Italic
Courier Italic
Courier PS
Courier PS Bold
Courier PS Bold Oblique
Courier PS Oblique
Dorit
Dorit Bold
Garamond Antiqua
Garamond Halbfett
Garamond Kursiv
Garamond Kursiv Halbfett

Helvetica
Helvetica Bold
Helvetica Bold Oblique
Helvetica Narrow
Helvetica Narrow Bold
Helvetica Narrow Bold Oblique
Helvetica Narrow Oblique
Helvetica Oblique
ITC Avant Garde Book
ITC Avant Garde Book Oblique
ITC Avant Garde Demi
ITC Avant Garde Demi Oblique
ITC Bookman Demi
ITC Bookman Demi Italic
ITC Bookman Light
ITC Bookman Light Italic
ITC Zapf Chancery Italic
ITC Zapf Dingbats
Koufi
Koufi Bold
Letter Gothic
Letter Gothic Bold
Letter Gothic Italic
Line Printer
Malka
Malka Bold
Malka Italic
Marigold
Naamit
Naamit Bold
Naskh
Naskh Bold
New Century Schoolbook Bold

New Century Schoolbook Bold
Ital
New Century Schoolbook Italic
New Century Schoolbook
Roman
Palatino Bold
Palatino Bold Italic
Palatino Italic
Palatino Roman
Ryadh
Ryadh Bold
Symbol
Symbol PS
Times Bold
Times Bold Italic
Times Italic
Times New Bold
Times New Bold Italic
Times New Italic
Times New Roman
Times Roman
Univers Bold
Univers Bold Condensed
Univers Bold Condensed Italic
Univers Bold Italic
Univers Medium
Univers Medium Condensed
Univers Medium Condensed
Italic
Univers Medium Italic
Wingdings

Additional Information

You can reach Xerox Customer Support at <http://www.xerox.com> or by calling Xerox Support in your country.

Xerox Customer Support welcomes feedback on all documentation - send feedback via e-mail to:
USA.DSSC.Doc.Feedback@xerox.com.

Other Tips about Xerox multifunction devices are available at the following URL:
<http://www.office.xerox.com/support/dctips/dctips.html>.

© 2010 Xerox Corporation. All rights reserved. XEROX®, XEROX and Design®, and WorkCentre® are trademarks of Xerox Corporation in the United States and/or other countries.