

PDL Reference Guide for Xerox[®] ConnectKey[®] Products

Customer Tip



©2013 Xerox Corporation. All rights reserved. Xerox®, Xerox and Design®, CentreWare® and ConnectKey® are trademarks of Xerox Corporation in the United States and/or other countries.
BR8133

Other company trademarks are also acknowledged.

Document Version: 1.1 (October 2013).

Table of Contents

Accessing Extended Features	4
Overview.....	4
Using this Guide	4
Feature Listing	4
Comment Commands	5
PJL SET Commands	5
PCL Commands	5
PS Commands	5
Reference Topics	6
General Commands.....	6
Media Commands.....	7
PCL5 Command Tray Mapping Tool	8
Formatting Commands	11
Finishing Commands	11
Print Job Accounting Commands.....	13
PJL/PCL Dependencies/Caveats.....	14
DSC/PS Dependencies/Caveats	15
Examples.....	16
Basic PCL/PJL Template	16
Sample PJL Headers.....	17
Basic PostScript/DSC Template.....	18
Additional Information	19

Accessing Extended Features

Overview

This document describes how to access the extended features of the Xerox® ConnectKey® Products for environments that do not have a custom driver.

Some of the commands & syntax used in this document requires familiarity with 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 ConnectKey Products

Commands to use in a PCL print job

Commands to use in a PS print job

The information contained in 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

Refer to the Feature List for the feature you would like to implement. Select the page number to jump to that page.

Follow the syntax listed for the command required. Read the “Dependencies/Caveats” section for additional information.

Feature Listing

PCL and ASCII print jobs can use PCL commands or PCL commands to access the attributes of the printer. 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. In this document, both PCL COMMENT and DSC are referred to as Comment commands.

Comment Commands

To process all PDL COMMENT commands and DSC, enclose them with XRXBegin and XRXEnd commands.

Example for a PCL or ASCII print job:

```
@PDL COMMENT XRXbegin
@PDL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE;
@PDL 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.

PDL SET Commands

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

Reference Topics

XRXBegin	
When interpreter receives XRXBegin it begins to parse PJI COMMENT commands checking 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

Copies	
Use the following commands to specify the number of copies or collated sets of a document.	
Language	Collated
PS	<</NumCopies <i>int</i> /Collate true >> setpagedevice <</NumCopies <i>int</i> /Collate true >> setpagedevice
PJI	@PJI SET QTY= <i>int</i>
PCL5	No PCL5 command available, use PJI
Language	Uncollated
PS	<</NumCopies <i>int</i> /Collate false >> setpagedevice
PJI	@PJI SET COPIES = <i>int</i>
PCL5	<Esc>&l#X
PDL	No PCL5 command available, use PJI

Banner Sheet (Start Sheet) – Device Generated
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.
PJI COMMENT Command
@PJI COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_ " <i>string</i> ";

DSC Command	
% %OID_ATT_START_SHEET OID_VAL_JOB_SHEET_ " string ";	
Where string 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.	
PS	<</MediaPosition int >> setpagedevice where int is from the table below.
PCL5	<Esc>&l#H where # is from the table below.
PCL6	ubyte ## attr_ubyte MediaSource Tray 1 example: 0xc0 0x04 0xf8 0x26 where ## is the hex number assigned to each selection.

Tray	PS <i>int</i>	PCL5 #	PCL6
Auto select	null	7	0x01
1	1	4, 2, 3, or 6	0x04
2	2	1	0x05
3	3	5 or 23	0x07
4	4	8 or 24	0x08
5	5	21	0x0A
6	6	22	0x09

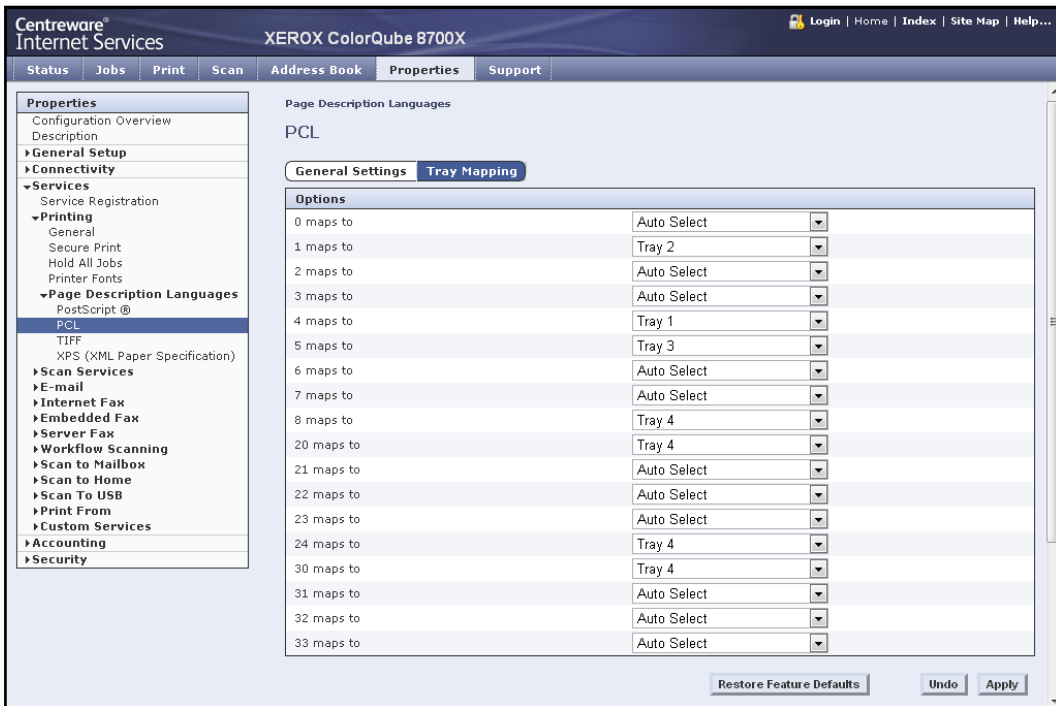
PCL5 Command Tray Mapping Tool

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 Xerox® CentreWare® Internet Services by entering the printer'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.

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



Media Size			
<p>This command specifies the size of media on which to print the job. Note: some sizes may not apply to every printer model.</p>			
PCL5			
<p><Esc> &#xA Where # is the number from the table below.</p>			
PS			
<p><</PageSize [width height] /CustomPageSize false >> setpagedevice Where width and height [w h] are the numbers from the table below.</p>			
PCL6			
<p>Defined Paper Size ubyte_array ubyte ## string attr_ubyte MediaSize example: 0xc8 0xc0 ## string 0xf8 0x25 where ## string is from the table below.</p>			
Media Sizes	PCL5 #	PCL6 ## String	PS [w h] Points
Letter 8.5 x 11" (216 x 279 mm)	2	0x06 LETTER	[612 792]
Legal 8.5 x 14" (216 x 356 mm)	3	0x05 LEGAL	[612 1008]
Tabloid/ Ledger (304 x 482 mm)	6	0x06 LEDGER	[792 1224]
A3 (297 x 420 mm)	27	0x02 A3	[842 1191]
A4 (210 x 297 mm)	26	0x02 A4	[595 842]
B6 JIS (128 x 182 mm)	44	0x06 JIS B6	[363 516]
Executive 7.25 x 10.5" (184 x 266 mm)	1	0x04 EXEC	[522 756]
Postcard 6 x 9" (152 x 228 mm)	160	0x06 na-6x9	[432 648]
Postcard Hagaki (100 x 148 mm)	71	0x05 JPOST	[284 420]
Postcard Oufuku Hagaki Dbl (148 x 200 mm)	72	0x06 JPOSTD	[420 566]
<p>Note: For additional Media sizes please consult your Xerox Local Support Center</p>			

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

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	<</PageSize [width height] /CustomPageSize true >> setpagedevice where [width height] is the physical dimension of the paper at 72 points/inch (PS points)
PCL5	[Esc]&f####I ← for the width [Esc]&f####J ← for the length [Esc]&l101A where #### is the physical dimension of the paper at 720 points/inch (decipoints).
PCL6	uint16_xy x y attr_ubyte CustomMediaSize ubyte eTenthsOfAMillimeter attr_ubyte CustomMediaSizeUnits ISO B6 example: 0xd1 0xe2 0x04 0xe0 0x06 0xf8 0x2f 0xc0 0x02 0xf8 0x30 where x is the width (1/10mm) in hex (lsb, msb) and y is the length (1/10mm) in hex (lsb, msb)

Media Type

Media types are used to distinguish the type of media a job requires.

PS	<</MediaType (string) >> setpagedevice	
PCL5	<Esc>&n#Wd string 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 string from the table below.	
PS (string) value	PCL5 examples	PCL6 Hexadecimal and String
cardstock	<Esc>&n10Wd cardstock	0x09 0x00 cardstock
envelope	<Esc>&n9Wd envelope	0x08 0x00 envelope
Labels	<Esc>&n7Wd labels	0x06 0x00 labels
Letterhead	<Esc>&n11Wd letterhead	

Formatting Commands

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 <i>String</i>	DSC Comment Command <i>String</i>
@PJL COMMENT OID_ATT_FEED_EDGE	% % OID_ATT_FEED_EDGE
Where string 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	
PS	
<< /Leading Edge int >> setpagedevice	
null = 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.	

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.			
Simplex/Duplex	PS	PCL5	PJL
one-sided	<< /Duplex false /Tumble false >> setpagedevice	<Esc>&l0S	@PJL SET DUPLEX=OFF
two-sided long-edge	<< /Duplex true /Tumble false >> setpagedevice	<Esc>&l1S	@PJL SET DUPLEX= ON @PJL SET BINDING= LONGEDGE
two-sided short-edge	<< /Duplex true /Tumble true >> setpagedevice	<Esc>&l2S	@PJL SET DUPLEX= ON @PJL SET BINDING= SHORTEGE

Finishing Commands

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

Output Destination		
Indicates the output bin where the print job is sent. Note: Some output options may not be available on every product model		
Output Tray	PS	PJL Comment Command
Simple Catch Tray Offset Catch Tray	<< /OutputType (MiddleTray) >> setpagedevice	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_MIDDLE;
Top output tray of finisher	<< /OutputType (TopTray) >> setpagedevice	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_TOP;
Finisher stacker tray	<< /OutPutType (Stacker) >> setpagedevice	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_STACKER;

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

Hole Punch	
This command indicates hole punches for a print job on a device with hole punch capability. Note: Some hole punch options may not be available on every product model.	
PJL COMMENT Command	DSC Comment Command
@PJL COMMENT OID_ATT_PUNCH <i>int</i> ;	% %OID_ATT_PUNCH <i>int</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.	
PS	
<< /Punch <i>int1</i> /PunchDetails << /Type 6 /NumHoles <i>int2</i> >> >> setpagedevice	
Where <i>int1</i> is: 0 = Punch Off 4 = 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.	

Print Job Accounting Commands

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

Internal Auditor or Xerox® Standard Accounting

This PJI 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.

PJI COMMENT Command

```
@PJI COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID,xxxx";  
@PJI COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GENERALACCT,yyyy";  
@PJI COMMENT OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GROUPACCT,zzzz";
```

Where **xxxx** is a valid USER Pin number.
Where **yyyy** is a valid GENERAL Account number.
Where **zzzz** is a valid GROUP Account number.

DSC Comment Command

```
%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID,xxxx";  
%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GENERALACCT,yyyy";  
%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_GROUPACCT,zzzz";
```

Where **xxxx** is a valid USER Pin number.
Where **yyyy** is a valid GENERAL Account number.
Where **zzzz** is a valid GROUP Account number.

PJI/PCL Dependencies/Caveats

- Locate all PJI commands in the beginning of the file before the image data starts (PS or PCL).
- To combine printer escape commands (not including PJI 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>&l5X) and use letter size (<ESC>&l2A) is combined as: <ESC>&l5x2A
- In case of duplicate commands, the last one requested takes precedence.
- The PJI SET COPIES command takes precedence over the PCL command (<Esc>&l#X) to determine number of copies. In general, PJI commands takes precedence over PCL commands.
- Printing jobs with odd number of pages & duplex front and back imaged covers, the printer always prints on both sides of the front and back covers. Remaining pages are printed on the document body media type & 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 to allow the device to select the matching source tray. If this media description method is used, leave the tray source command out of the job, or set to Auto. If not, the tray source command takes precedence over the tray selection capabilities of the device.
 - Indicate the tray source for the job. If the tray source command 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.
- WorkCentre and ColorQube devices support 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 (where applicable):
 - Describe the media attributes with size, color, and type to allow the device to select the matching source tray. If this media description method is used, leave the tray source command out of the job, or set to Auto. If not, the tray source command takes precedence over the tray selection capabilities of the device.
 - Indicate the tray source for the job. If the tray source command 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.

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 & commands that do not exist on all products.

This print job specifies the following items: Job owner; Job name; 11 x 17 paper size; Heavyweight, Green paper, 1 staple, draft mode.

Section 1 (Opening Command, Required for all files)

```
<Esc> %-12345X
```

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"; (Quotation marks are required)
```

```
@PJL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE;
```

```
@PJL COMMENT OID_ATT_JOB_OWNER "John Smith"; (Quotation marks are required)
```

```
@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;
```

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]
```


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

<Esc> %-12345X

Sample PJJ Headers

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

Example 1 Header for Simple Print

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

Example 2 Header for Proof Print

This is a proof print job header that requests 6 copies

```
<Esc> %-12345X
@PJJ SET COPIES= 6
@PJJ COMMENT XRXbegin
@PJJ COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PROOF_PRINT
@PJJ COMMENT XRXend
@PJJ ENTER LANGUAGE=PCL
[Insert PCL document or text to print here]
<Esc> %-12345X
```

Example 3 Header for Finishing Options

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

```
<Esc> %-12345X
@PJJ COMMENT XRXbegin
@PJJ COMMENT OID_ATT_JOB_OWNER "John Smith"
@PJJ COMMENT OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PROOF_PRINT;
@PJJ COMMENT OID_ATT_FINISHING OID_VAL_FINISHING_STAPLE;
@PJJ COMMENT XRXSTAPLE=PORTRAIT;
@PJJ COMMENT XRXend
@PJJ ENTER LANGUAGE=PCL
<Esc>&l2G
[Insert PCL document or text to print here]
<Esc> %-12345X
```

*** Some Products will need to only select the Stapler, the stacker will be automatically added.

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 every product model.

This example 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

Section 1 (Adobe Reference Command)

```
%!PS
```

Section 2 (XRXbegin - Opening Comment Statement, Required)

```
%%XRXbegin
```

Section 3 (OID Commands)

```
%%OID_ATT_JOB_OWNER "John Smith"; (Quotation marks are required)
%%OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PRINT;
%%OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE;
%%OID_ATT_JOB_NAME "Readme.txt"; (Quotation marks are required)
%%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 >> >> setpagedevice
<< /PageSize [792 1224] >> setpagedevice
<< /Duplex true /Tumble false >> setpagedevice
<< /Collate false >> setpagedevice
```

Section 6 (Postscript Data Stream Inserted Here)

```
[Postscript]
```

Section 6 (Postscript Data Stream Inserted Here)

```
%%EOF
```

Example 1 Header for Simple Print0

```
%!PS
%%RXbegin
%%OID_ATT_JOB_OWNER "John Smith";
%%OID_ATT_JOB_NAME "Print Job";
%%OID_ATT_COPY_COUNT 1;
%%RXend
```

Example 2 Header for Proof Print

```
%!PS
%%RXbegin
%%OID_ATT_JOB_TYPE OID_VAL_JOB_TYPE_PROOF_PRINT;
%%OID_ATT_COPY_COUNT 6;
%%RXend
```

Example 3 Header for Finishing Options

This job header specifies the following items: 10 copies; Duplex; Collated; Staples; 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

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

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>.

