

Printer Description Language Reference Guide for:

Xerox® VersaLink® C625 Color Multifunction Printer

Xerox® VersaLink® B625 Multifunction Printer

Xerox® VersaLink® C415 Color Multifunction Printer

Xerox® VersaLink® B415 Multifunction Printer

Xerox® VersaLink C620 Color Printer

Xerox® VersaLink® B620 Printer

Customer Tip



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Overview

This document enables you to access the extended features of the Xerox VersaLink C625\B625, C415\B415 and C620\B620 in environments that do not have a custom driver.

Some of the commands and syntax used in this documents requires some 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 VersaLink Products
- Commands to use in a PCL print job
- Commands to use in a PS print job

This document is not intended to be a complete PS or PCL reference manual. It is a guide for using the PS and PCL commands with Xerox® VersaLink C625\B625, C415\B415 and C620\B620Printer Series.

PostScript Language Reference Manual, Third Edition:

<https://www.adobe.com/jp/print/postscript/pdfs/PLRM.pdf>

PCL5 Printer Language Technical Reference Manual:

<http://www.hp.com/ctg/Manual/bpl13210.pdf>

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Accessing Extended Features

Using this Guide

- Follow the syntax listed for the command required. Read the “Dependencies/Caveats” section for additional information.
- 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 PCL COMMENT and DSC commands, enclose them with XRxBegin and XRXEnd commands.

Example for a PCL or ASCII print job:

```
@PCL COMMENT XRxBegin
```

```
@PCL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_NONE; @PCL 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.

XRxBegin

When interpreter receives XRxBegin it begins to parse PCL COMMENT commands checking for Xerox-specific commands until it receives the command to stop parsing.

PCL COMMENT Command	DSC Comment Command
@PCL COMMENT XRxBegin	%%XRxBegin

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

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.

General Commands

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

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.

PJL COMMENT Command

@PJL COMMENT OID_ATT_START_SHEET OID_VAL_JOB_SHEET_”string”;

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>&I#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 int	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 (Bypass Tray)	5	21	0x0A

PCL 5 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® Web by entering the printer's IP address in their favorite Web browser.

To get to the PCL Tray Mapping page select the Properties tab -> Apps -> 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.

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Options	
0 maps to	Auto Select
1 maps to	Auto Select
2 maps to	Auto Select
3 maps to	Bypass Tray
4 maps to	Tray 1
5 maps to	Auto Select
6 maps to	Auto Select
7 maps to	Auto Select
8 maps to	Auto Select
20 maps to	Auto Select
21 maps to	Auto Select
22 maps to	Bypass Tray
23 maps to	Auto Select
24 maps to	Auto Select
30 maps to	Auto Select
31 maps to	Auto Select
32 maps to	Auto Select
33 maps to	Bypass Tray

Note
The default settings between Xerox machines may vary based on different tray configurations.

Restore Feature Defaults Undo Save

Media Size

This command specifies the size of media on which to print the job.

Note: some sizes may not apply to every printer model.

PCL5

<Esc> &I#A

Where # is the number from the table below.

PS

<</PageSize [widthheight]/CustomPageSize false >> setpagedevice Where width and height [w h] are the numbers from the table below.

PCL6

Defined Paper Size

ubyte_array ubyte ## string attr_ubyte MediaSize

example: 0xc8 0xc0 ## string 0xf8 0x25

where ## string is from the table below

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]
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 Hagaki (100 x 148 mm)	71	0x05 JPOST	[284 420]
Note: For additional Media sizes please consult your Xerox Local Support Center			

Envelope Sizes	PCL5 #	PCL6 ## String	PS [w h] Points
#10 4.125" x 9.5"	81	0x05 COM10	[297 684]
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#####l for the width [Esc]&f#####J sfor 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#Wdstring 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>&n10Wdcardstock	0x09 0x00 cardstock
envelope	<Esc>&n9Wdenvelope	0x08 0x00 envelope
Labels	<Esc>&n7Wdlabels	0x06 0x00 labels
Letterhead	<Esc>&n11Wdletterhead	

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 String	DSC Comment Command String

@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 ajob 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>&I0S	@PJL SET DUPLEX=OFF
two-sided long- edge	<< /Duplex true /Tumble false >> setpagedevice	<Esc>&I1S	@PJL SET DUPLEX= ON @PJL SET BINDING= LONGEDGE
two-sided short- edge	<< /Duplex true /Tumble true >> setpagedevice	<Esc>&I2S	@PJL SET DUPLEX= ON @PJL SET BINDING= SHORTEGE

Finishing Commands

Output Destination	
Indicates the output bin where the print job is sent. Note: Some output options may not be available on every product model	
PJL COMMENT Command	
Output tray	@PJL COMMENT OID_ATT_OUTPUT_BINS OID_VAL_OUTPUT_BIN_MIDDLE;
PS	
Output tray	<< /OutputType (MiddleTray) >> setpagedevice
PCL	
Output tray	<esc>&I4G

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,xxxx";
Where xxxx is actual User ID entered by user.
DSC Comment Command
%%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_USERID,xxxx";
Where xxxx 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,yyyy";
Where yyyy is actual Account ID entered by user.
DSC Comment Command
%%OID_ATT_ACCOUNTING_INFORMATION_AVP "XRX_ACCTID,yyyy";
Where yyyy is actual Account ID entered by user.

Internal Auditron or Xerox® Standard Accounting

This PJI command sends the users pin number for use by devices that support the Internal Auditron 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

- 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 commands in the order you wish them to execute.
 - For example, print 5 copies (<ESC>&I5X) and use letter size (<ESC>&I2A) is combined as:
<ESC>&I5x2A
 - In case of duplicate commands, the last one requested takes precedence.
- The PJI SET COPIES command takes precedence over the PCL command (<Esc>&I#X) to determine number of copies. In general, PJI commands takes precedence over PCL commands.

DSC/PS Dependencies/Caveats

All %% commands (DSC comments) must be in the first 64KB of the job.

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.

PJL/PCL and DSC/PS Dependencies/Caveats

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 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 every product model.

Example 1 Header for Simple Print

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

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

This example print job specifies the following items: Job owner; Job name; 8.5 x 11 paper size; Heavyweight, Green paper, 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";

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

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.

This example print job specifies the following items; Job owner; Job name; 8.5 x 11 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
<< /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]

```
%%EOF
```

```
%!PS
```

```
%%XRXbegin
```

```
%%OID_ATT_JOB_OWNER "John Smith";
```

```
%%XRXend
```

```
<< /PageSize [612 792] >> setpagedevice
```

```
<< /OutputType (MainTray) >> 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.