Xerox Multifunction Devices

Customer Tips

dc07cc0423 March 27, 2007 ...for the user

PDL Reference Guide for the WorkCentre 7132

Accessing Extended Features

Overview

This document enables you to access the extended features of the WorkCentre 7132 in environments that do not have 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 items are also included:

- PostScript tables that describe the PS features the WorkCentre 7132 supports and the syntax to use the feature.
- PCL tables that describe the PCL features the WorkCentre 7132 supports and the syntax to use the feature.

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 WorkCentre 7132 only. Refer to these references for additional details:

- PostScript Language Reference Manual, Third Edition (http://www.adobe.com/products/postscript/pdfs/PLRM.pdf)
- PCL5 Printer Language Technical Reference Manual (http://h20000.www2.hp.com/bc/docs/support/SupportManual/bpl13210/bpl13210.pdf),
- Printer Job Language Technical Reference Manual
 (http://h20000.www2.hp.com/bc/docs/support/SupportManual/bpl13208/bpl13208.pdf), a

 Hewlett-Packard manual.

Using this Guide

- 1. Search the PS or PCL Feature Table to determine whether the feature you wish to use is supported.
- Verify that the feature is supported by the configuration of the device. For example, the WorkCentre 7132 must have a Finisher option installed to use stapling commands.
- 3. Follow across the table to find the syntax listed for the PDL examples shown. Reference the "Dependencies/Caveats" section when working with PS and/or PCL commands.

This document applies to the Xerox WorkCentre 7132.

It is assumed that your device is equipped with the appropriate option(s) to support the information in this document.

dc07cc0423

PCL

This WorkCentre 7132 supports PCL5e, PCL5, and PCL6 Color emulations that enable the features listed in the following table.

Feature	Description
Job Name	The value for Job Name is stored for printing on the banner
	page.
Custom Paper Size –	Customer designated paper size on which to print a job.
available only for PCL	
Media Size	The size of media on which to print a job.
Media Source	Specifies the tray to supply the job's media.
Output Location	Indicates the output bin where the completed print job is sent.
Stapling	Indicates use and location of staple(s).
Punch	Indicates use, location, and number of hole punches.
Booklet	Print job in booklet format.
Collation	Collated creates a set that includes 1 copy of each page (ex.
	123,123). Uncollated creates a stack of multiple copies of the
	same page (ex.11,22,33).
Resolution	Resolution used to image a job.
Quantity	Number of copies of a job to print.
Simplex	Delivers one-sided output.
Duplex	Delivers two-sided output.
Orientation	Delivers output in landscape or portrait orientation.
Force Short Edge	Rotates orientation of job.
Feeding	
Job Mode	Specify Job Mode
Job Type	Specify Store (Secure) to hold the print job at the device until it
	is released by input at the local UI (see documentation
	shipped with the device for more information), or Proof to print
	the first of multiple copies to check that all attributes of a job
	are correct.
Interleaving Paper	Insert blank media to separate sheets of transparent media.
(transparency	
separator)	
Job Based	Allows entry of an accounting code and user ID. To enable this
Accounting	feature the optional Network Accounting kit is required.
Delayed Print	Specify the time to print a job.

PCL/PJL Implementation

This section describes the PCL commands for specific features. This table lists each feature and the PCL syntax that is required to use the feature. Following this table are examples of how to use these commands and what the PCL file looks like.

For more details, refer to these reference materials: *PCL5 Printer Language Technical Reference Manual* and *Printer Job Language Technical Reference Manual (Hewlett-Packard manuals).*

Feature	Implementation	Values
Job Name	@PJL SET JOBNAME = "jobname-string"	Where jobname-string is a maximum of 32 characters Exclude["](22H) character
Custom Paper Size – available only for PCL	Not in PJL command. You have to specify by PCL: <esc>&I 101A</esc>	Width of Custom Paper is specified by <esc>*c#X where # = decipoints for (100 - 305)mm. Length of Custom Paper is specified by <esc>*c#Y where # = decipoints for (140 - 482)mm. For instance: 4.25-inch x 5.5-inch will give <esc>*c3060x3960Y by 4.25-inch x 720 decipoints/inch = 3060 and 5.5-inch x 720 decipoints/inch = 3960.</esc></esc></esc>
Media Size	@PJL SET PAPER = value	Where value is one of the following: A3 A4 JISB4 JISB5 LEDGER: 11x17 LEGAL: 8.5x14 JISEXEC: 8.5x13 LETTER: 8.5x11 CUSTOM: Custom paper
	<esc>&I int A</esc>	Where <i>int</i> is one of the following: 2: Letter (8.5x11) 3: Legal (8.5x14) 6: Ledger (11x17) 26: A4 27: A3 45: B5(JIS) 46: B4(JIS) 101: Custom
Media Source	@PJL SET MEDIASOURCE = value	Where <i>value</i> is one of the following: TRAY1: Feed from paper tray1 TRAY2: Tray2 TRAY3: Tray3 SMH: Bypass tray (SMH is short for Special Material Handler)
	<esc>&I int H</esc>	Where <i>int</i> is one of the following: 0: Feed paper from default tray 4: Tray1 1: Tray2 5: Tray3 20 = Auto 2 or 3 = Bypass tray
Output	@PJL SET OUTBIN = value	Where value is one of the following:

dc07cc0423

Feature	Implementation	Values
Location		UPPER: Main tray (Hewlett-Packard compatible) MAINTRAY: Main tray (No finisher installed) CENTERTRAY: Main tray MAINTRAY2: Upper main tray with center upper exit (main tray when installing Office finisher) LOWER: Side tray (Hewlett-Packard compatible) SIDETRAY: Side tray OUTBIN101: Finisher tray
Stapling	@PJL SET STAPLE = value	Where value is one of the following: TOPDUAL TOPLEFT TOPRIGHT BOTTOMDUAL BOTTOMLEFT BOTTOMRIGHT LEFTDUAL RIGHTDUAL NONE Note: With the integrated finisher, TOPLEFT, TOPRIGHT, BOTTOMLEFT, and BOTTOMRIGHT are valid depending on paper feed direction; TOPDUAL, BOTTOMDUAL, LEFTDUAL and RIGHTDUAL are unavailable regardless of paper size and feed direction.
Collation	@PJL SET QTY = int	Where <i>int</i> is: 1- 999 (If you use this parameter, it also indicate use collate mode automatically.)
Resolution	@PJL SET RESOLUTION = value	Where <i>value</i> is one of the following: 600
Bits Per Pixel	@PJL SET BITSPERPIXEL = value	Where <i>value</i> is one of the following: 1: 1 bit per pixel (per plane)
Quantity	@PJL SET COPIES = int <esc>&I int X</esc>	Where <i>int</i> is: 1- 999 (This parameter used for uncollated mode.) Where <i>int</i> is:
Simplex	@PJL SET DUPLEX = value1 <esc>&I int S</esc>	1- 999 Where <i>value1</i> is one of the following: OFF: simplex Where <i>int</i> is one of the following:
		0: simplex

Feature	Implementation	Values
Duplex	@PJL SET DUPLEX = value1 @PJL SET BINDING = value2 <esc>&I int S</esc>	Where <i>value1</i> is one of the following: ON: duplex Where <i>value2</i> is one of the following: LONGEDGE SHORTEDGE (<i>value2</i> is used combined with value1=ON) Where <i>int</i> is one of the following: 1: Duplex Long Edge Binding
Orientation	@PJL SET ORIENTATION = value	2: Duplex Short Edge Binding Where <i>value</i> is one of the following: PORTRAIT LANDSCAPE
	<esc>&I int 0</esc>	Where <i>int</i> is one of the following: 0: Portrait 1: Landscape 2: Reverse Portrait 3: Reverse Landscape
Force short edge feeding	@PJL SET PAPERDIRECTION = value	Where <i>value</i> is one of the following: SEF: Short Edge Feed LEF: Long Edge Feed
Job Mode	@PJL JOB MODE = value	Where <i>value</i> is one of the following: PRINTER for Printer
Job Type (Secure Print / Proof Print)	@PJL SET HOLD = value1 See Example 3	Where <i>value1</i> is one of the following: PROOF: proof print STORE: confidential print (secure print)
	@PJL SET HOLDKEY =" four-digit string" See Example 4	The HOLDKEY variable acts as a password without encryption to protect a held job. Four-digit string can be any four-digit value from 0000 to 9999. The default value is "". When ""(empty string) is specified, no password is required.
Interleaving Paper (Transparency Separator)	@PJL SET SLIPSHEET = value	Where <i>value</i> is one of the following: OFF: no slipsheet BLANK: blank slipsheet COPY: imaged slipsheet

Feature	Implementation	Values
Job Based Accounting	<pre>@PJL SET JOBATTR = "@JOAU = string1" @PJL SET JOBATTR =</pre>	Where <i>string1</i> is a maximum of 32 character (ASCII characters in the range 20h-7Eh are allowed only) as job owner (Capital character & small character is distinguished)
	"@JOAP = string2" @PJL SET JOBATTR = "@DAID = string3"	Where <i>string2</i> is a maximum of 12 character (ASCII characters in the range 20h-7Eh are allowed only) as password without encryption. It can be null (zero length string)
		Where string3 is a maximum of 32 character (ASCII characters in the range 20h-7Eh are allowed only) as account ID. It can be null (zero length string)
		Note: Auditron and JBA cannot be used at the same time. So the same command works for each mode.
Delay Print	@PJL SET JOBATTR = "@PRTM = YYYY:MM:DD:hh:mm"	YYYY:MM:DD:hh:mm YYYY: year(AD 2000-2099) MM: month (1-12) DD: day (1-31) hh: hour(0-23) mm: minute(0-59) Delay print and Job Type are mutual exclusive.
Banner Sheet	@PJL SET JOBATTR= "@BANR=value" @PJL SET JOBATTR=	Where value is one of the following: START: start sheet DEVICE: depend on device setting OFF: no banner sheet
	"@BCMT=string"	Where string is a maximum of 255 character (ASCII characters in the range 20h –7Eh are allowed only) as comment in the banner sheet.

PJL Template

This section illustrates a standard PJL template that is used to access general print features as well as the WorkCentre 7132 Product specific features. This template lists each feature and the syntax, both PCL commands and PJL, required to use these features. The next section of this document contains other examples of how to use these commands.

Section 1 (Opening Command, Required for all files)

<ESC>%-12345X@PJL JOB MODE=PRINTER

Section 2 (PJL Set Commands)

@PJL SET RESOLUTION=600 @PJL SET COPIES=1

Section 3 (PCL Code used to invoke PCL Language)

@PJL ENTER LANGUAGE=PCL

Section 4 (PCL Data Stream or ASCII Document inserted here for Options such as selection Different Fonts, Simplex, Duplex, etc.)

Section 5 (Closing Command, Required at end of Document)

<ESC>%-12345X@PJL EOJ

Sample PJL Headers

This section contains examples of these commands in use.

Example 1 Simple Print

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>
@PJL COMMENT Beginning PCL Job<CR><LF>
@PJL SET OUTBIN=MAINTRAY<CR><LF>
@PJL SET QTY=1<CR><LF>
@PJL SET RESOLUTION=600<CR><LF>
@PJL SET JOBATTR="@JOAU=Nagaoka" <CR><LF>
```

Example 2 Finishing Options

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>
@PJL SET OUTBIN=OUTBIN101<CR><LF>
@PJL SET FINISH=ON<CR><LF>
@PJL SET STAPLE=TOPLEFT<CR><LF>
```

Example 3 Proof Print

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>
@PJL SET HOLD=PROOF <CR><LF>
@PJL SET USERNAME="Nagaoka" <CR><LF>
@PJL SET JOBNAME="Job1" <CR><LF>
```

Example 4 Confidential (Secure) Print without encryption

```
Password: 1234

<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>
@PJL SET HOLD=STORE <CR><LF>
@PJL SET HOLDTYPE=PRIVATE <CR><LF>
@PJL SET HOLDKEY="1234"<CR><LF>
@PJL SET USERNAME="Nagaoka" <CR><LF>
@PJL SET JOBNAME="Job1" <CR><LF>
```

Example 5 Banner Sheet

```
banner : start sheet
@PJL SET JOBATTR="@BANR=START"<CR><LF>
```

Example 6 Job Based Accounting & Auditron

```
userID: nakada, Password: none, accountID: none
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>
@PJL SET JOBATTR="@JOAU=nakada"<CR><LF>
@PJL SET JOBATTR="@JOAP="<CR><LF>
@PJL SET JOBATTR="@DAID="<CR><LF>
```

PCL/PJL Feature Dependencies/Caveats

- All PJL commands must be in the first 2,500 bytes of the job.
- To combine printer escape commands (not including PJL 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, combine print 5 copies (<ESC>&|5X) and use letter size (<ESC>&|2A) as <ESC>&|5x2A.
- In case of duplicate commands, the last command sent takes precedence.
- The @PJL SET COPIES takes precedence over the PCL Escape Command (<ESC>& | int X>) to set copies. In general, a PJL command takes precedence over a PCL command.
- Valid media classes for duplex are fine paper, stationary, recycled paper, user1-5 paper, thick paper 1 (for finisher), and coated paper (for finisher).
- Valid media classes for staple are fine paper, stationary, recycled paper, stationary side 2, user1-5 paper, thick paper 1 for finisher and coated paper 1 for finisher.
- Use one of the methods described in the following list to specify media selection:
 Describe the media attributes with size and type and allow the device to select
 the correct source tray. If you describe the media, leave source tray information
 out of the request or set to Auto. Otherwise, the tray selection defeats the auto
 tray selection capabilities of the device.
 - Indicate the media feed tray to use. In doing so, you allow the device to select media feed trays based on paper type defined by SYSTEM DEFAULT unless specified otherwise. This method prevents inadvertent use of special paper types. To override a paper type definition, include a paper type specification of UNSPECIFIED in the job.

Page 9

Customer Support

PCL Fonts

The following PCL fonts are resident on the device..

The commands in the table reference a 12-point font. If you wish to use any other point size, change the 12v to the desired size (.25 - 999.75).

The commands listed use the default symbol set, Roman-8. To change the symbol set, include the alternate symbol set after the first <ESC> and before the second <ESC>. Use the line printer examples as a reference.

Font Name	PCL Escape Command
Albertus Medium	<pre><esc>(<esc>(s1p12v0s1b4362T</esc></esc></pre>
Albertus Extra Bold	<pre><esc>(<esc>(s1p12v0s1b4362T) </esc></esc></pre>
Antique Olive	<pre><esc>(<esc>(s1p12v0s0b4168T</esc></esc></pre>
Antique Olive Bold	<esc>(<esc>(s1p12v0s0b41001)</esc>(<esc>(s1p12v0s3b4168T)</esc></esc>
Antique Olive Bold Antique Olive Italic	<esc>(<esc>(s1p12v0s3b41001)</esc>(<esc>(s1p12v1s0b4168T)</esc></esc>
Arial	<pre><esc>(<esc>(s1p12v130b41001 <esc>(<esc>(s1p12v0s0b16602T)</esc></esc></esc></esc></pre>
Arial Bold	<pre><esc>(<esc>(\$1p12v0s0b100021 <esc>(<esc>(\$1p12v0s3b16602T)</esc></esc></esc></esc></pre>
Arial Italic	<pre><esc>(<esc>(s1p12v0s3b100021 <esc>(<esc>(s1p12v1s0b16602T)</esc></esc></esc></esc></pre>
Arial Bold Italic	<pre><esc>(<esc>(s1p12v1s0b100021 <esc>(<esc>(s1p12v1s3b16602T)</esc></esc></esc></esc></pre>
CG Times	<pre><esc>(<esc>(s1p12v1s3b166621 <esc>(<esc>(s1p12v0s0b4101T</esc></esc></esc></esc></pre>
CG Times Bold	<pre><esc>(<esc>(s1p12v0s0b41011 <esc>(<esc>(s1p12v0s3b4101T)</esc></esc></esc></esc></pre>
CG Times Italic	<pre><esc>(<esc>(s1p12v0s3b41011 <esc>(<esc>(s1p12v1s0b4101T)</esc></esc></esc></esc></pre>
CG Times Bold Italic	<pre><esc>(<esc>(s1p12v1s0b4101T </esc></esc></pre>
CG Omega	<pre><esc>(<esc>(s1p12v1s3b41011 <esc>(<esc>(s1p12v0s0b4113T)</esc></esc></esc></esc></pre>
CG Omega Bold	<pre><esc>(<esc>(s1p12v0s0b4113T) <esc>(<esc>(s1p12v0s3b4113T)</esc></esc></esc></esc></pre>
CG Omega Italic	<pre><esc>(<esc>(s1p12v0s3b4113T) <esc>(<esc>(s1p12v1s0b4113T)</esc></esc></esc></esc></pre>
CG Omega Bold Italic	<pre><esc>(<esc>(s1p12v1s0b41131 <esc>(<esc>(s1p12v1s3b4113T)</esc></esc></esc></esc></pre>
Clarendon Condensed	<pre><esc>(<esc>(\$1p12v153b41131) <esc>(<esc>(\$1p12v453b4140T)</esc></esc></esc></esc></pre>
Coronet	<pre><esc>(<esc>(\$1p12v4\$3b41401 <esc>(<esc>(\$1p12v1\$0b4116T)</esc></esc></esc></esc></pre>
Courier	<pre><esc>(<esc>(\$1p12v150b41101) <esc>(<esc>(\$1p12v050b4099T)</esc></esc></esc></esc></pre>
Courier Bold	
Courier Bold Courier Italic	<pre><esc>(<esc>(s1p12v0s3b4099T</esc></esc></pre>
Courier Italic Courier Bold Italic	<pre><esc>(<esc>(s1p12v1s0b4099T </esc></esc></pre>
	<pre><esc>(<esc>(s1p12v1s3b4099T</esc></esc></pre>
Garamond Antiqua	<pre><esc>(<esc>(s1p12v0s0b4197T</esc></esc></pre>
Garamond Halbfett	<pre><esc>(<esc>(s1p12v0s3b4197T</esc></esc></pre>
Garamond Kursiv Hollsfort	<pre><esc>(<esc>(s1p12v1s0b4197T</esc></esc></pre>
Garamond Kursiv Halbfett	<pre><esc>(<esc>(s1p12v1s1b4197T</esc></esc></pre>
Line Printer (Roman-8)	<pre><esc>(8U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>
Line Printer (Latin-1)	<pre><esc>(0U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>
Line Printer (PC-8)	<pre><esc>(10U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>
Line Printer (PC-8 D/N)	<pre><esc>(11U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>
Line Printer (PC-850)	<pre><esc>(12U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>
Line Printer (Legal)	<pre><esc>(1U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>
Marigold	<pre><esc>(<esc>(s1p12v0s0b4297T</esc></esc></pre>
Times New	<pre><esc>(<esc>(s1p12v0s0b16901T</esc></esc></pre>
Times New Bold	<pre><esc>(<esc>(s1p12v0s3b16901T</esc></esc></pre>
Times New Italic	<pre><esc>(<esc>(s1p12v1s0b16901T</esc></esc></pre>
Times New Bold Italic	<pre><esc>(<esc>(s1p12v1s3b16901T</esc></esc></pre>
Symbol	<pre><esc>(19M<esc>(s1p12v0s0b16686T</esc></esc></pre>
Wingdings	<pre><esc>(579L<esc>(s1p12v0s1b31402T</esc></esc></pre>
Univers Bold	<esc>(<esc>(s1p12v0s3b4148T</esc></esc>
Univers Bold Italic	<esc>(<esc>(s1p12v1s3b4148T</esc></esc>
Univers Bold Condensed	<esc>(<esc>(s1p12v4s3b4148T</esc></esc>
Univers Bold Condensed Italic	<pre><esc>(<esc>(s1p12v5s3b4148T)</esc></esc></pre>
Univers Medium	<pre><esc>(<esc>(s1p12v0s0b4148T</esc></esc></pre>
Univers Medium Italic	<pre><esc>(<esc>(s1p12v1s0b4148T)</esc></esc></pre>
Univers Medium Condensed	<esc>(<esc>(s1p12v4s0b4148T</esc></esc>
Univers Medium Condensed Italic	<esc>(<esc>(s1p12v5s0b4148T</esc></esc>
Letter Gothic	<esc>(<esc>(s1p12h0s0b4102T</esc></esc>
Letter Gothic Italic	<pre><esc>(<esc>(s1p12h1s0b4102T</esc></esc></pre>
Letter Gothic Bold	<esc>(<esc>(s1p12h0s3b4102T</esc></esc>

Font Name	PCL Escape Command
Times Roman	<esc>(<esc>(s1p12h0s3b4102T</esc></esc>
Times Italic	<esc>(<esc>(s1p12h0s3b4102T</esc></esc>
Times Bold	<esc>(<esc>(s1p12h0s3b4102T</esc></esc>
Times Bold Italic	<esc>(<esc>(s1p12h0s3b4102T</esc></esc>
Helvetica	<esc>(<esc>(s1p12v0s0b24580T</esc></esc>
Helvetica Oblique	<esc>(<esc>(s1p12v1s0b24580T</esc></esc>
Helvetica Bold	<esc>(<esc>(s1p12v0s3b24580T</esc></esc>
Helvetica Bold Oblique	<esc>(<esc>(s1p12v1s3b24580T</esc></esc>
CourierPS	<esc>(<esc>(s0p12h0s0b24579T</esc></esc>
CourierPS Oblique	<esc>(<esc>(s0p12h1s0b24579T</esc></esc>
CourierPS Bold	<esc>(<esc>(s0p12h0s3b24579T</esc></esc>
CourierPS Bold Oblique	<esc>(<esc>(s0p12h1s3b24579T</esc></esc>
SymbolPS	<esc>(19M<esc>(s1p12v0s0b45358T</esc></esc>
Palatino Roman	<esc>(<esc>(s1p12v0s0b24591T</esc></esc>
Palatino Italic	<esc>(<esc>(s1p12v0s0b24591T</esc></esc>
Palatino Bold	<esc>(<esc>(s1p12v0s0b24591T</esc></esc>
Palatino Bold Italic	<esc>(<esc>(s1p12v0s0b24591T</esc></esc>
ITC Bookman Light	<esc>(<esc>(s1p12v0s-3b24623T</esc></esc>
ITC Bookman Light Italic	<esc>(<esc>(s1p12v1s-3b24623T</esc></esc>
ITC Bookman Demi	<esc>(<esc>(s1p12v0s2b24623T</esc></esc>
ITC Bookman Demi Italic	<esc>(<esc>(s1p12v1s2b24623T</esc></esc>
Helvetica Narrow	<esc>(<esc>(s1p12v4s0b24580T</esc></esc>
Helvetica Narrow Oblique	<esc>(<esc>(s1p12v5s0b24580T</esc></esc>
Helvetica Narrow Bold	<esc>(<esc>(s1p12v4s3b24580T</esc></esc>
Helvetica Narrow Bold Oblique	<esc>(<esc>(s1p12v5s3b24580T</esc></esc>
New Century Schoolbook Roman	<esc>(<esc>(s1p12v0s0b24703T</esc></esc>
New Century Schoolbook Italic	<esc>(<esc>(s1p12v1s0b24703T</esc></esc>
New Century Schoolbook Bold	<esc>(<esc>(s1p12v0s3b24703T</esc></esc>
New Century Schoolbook Bold	<esc>(<esc>(s1p12v1s3b24703T</esc></esc>
Italic	
ITC Avant Garde Book	<esc>(<esc>(s1p12v0s0b24607T</esc></esc>
ITC Avant Garde Book Oblique	<esc>(<esc>(s1p12v1s0b24607T</esc></esc>
ITC Avant Garde Demi	<esc>(<esc>(s1p12v0s2b24607T</esc></esc>
ITC Avant Garde Demi Oblique	<esc>(<esc>(s1p12v1s2b24607T</esc></esc>
ITC Zapf Chancery Medium Italic	<esc>(<esc>(s1p12v1s0b45099T</esc></esc>
ITC Zapf Dingbats	<esc>(<esc>(s1p12v0s0b45101T</esc></esc>

PostScript

This WorkCentre supports PS level 3 commands that enable the features listed in the following table.

Media Size Select the physical paper (media) size. (width and height) Media Direction Feed direction of paper –LEF or SEF Media Source Specifies the tray to supply the job's media. Media Source from SMH Specifies the bypass tray to supply the job's media. Media Weight Media weight. Unit: (g/m²) gram per square-meter Media Weight Media weight. Unit: (g/m²) gram per square-meter Media Selection Paper class (example: normal, thick, recycled) Media Selection Specifies immediate or deferred media selection. Print Mode Specifies immediate or deferred media selection. Print Mode Specifies the bypass tray to supply english selection. Duplex Deliver two-sided output. Landscape documents read like a calendar and portrait documents read like a calendar and portrait documents read like a calendar. Image Enhancement Use to apply edge-smoothing to output after rendering. Toner Save Specify whether you lighten output density to save toner. Halftone Screen Specify a screen type. Selection Output bin Quantity Number of copies (max: 999) Collation Collated or Uncollated Jog Offsetting <t< th=""><th>Feature</th><th>Description</th></t<>	Feature	Description	
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Feature	Description
Use CIE Color	Specify to apply CIE-based color space through color conversion.
Job Name	
Job Type (Secure Print / Proof Print / Box Print) Job Based Accounting	These features are same as 'PCL/PJL Implementation'. – use the PJL set command listed in the "PCL" section.
Delay Print	
Banner Sheet	

PostScript Implementation

This section describes the PostScript commands required to access specific WorkCentre features. This table lists each feature and the PostScript syntax that is required to use the feature. Following this table are some examples of how to use these commands and what the PostScript file looks like.

For more information about PostScript commands, refer to the *PostScript Language Reference Manual, Third Edition*.

PostScript Print Features/Implementation

In the following table, default values are marked with an asterisk (*).

Feature	Implementation	Values
i cature	implementation	(* indicates default value)
Media Size	<> setpagedevice	[width x height] in 1/72 inch(points) [842 1191] = A3 [595 842] = A4 [420 595] = A5 † [729 1032] = B4 [516 729] = B5 [792 1224] = 11 x 17 [612 1008] = Legal (8.5 x 14) [612 936] = Legal 13 (8.5 x 13) [612 792] = Letter (8.5 x 11) [522 756] = Executive (7.25 x 10.5) [396 612] = Statement (5.5 x 8.5) † †: Whether each paper is available depends on NVM memory setting. The following paper sizes are only available with bypass tray. [297 420] = A6 [363 516] = B6 [792 1080] = 11 x 15 [576 720] = 8 x 10 [288 432] = Postcard(4 x 6) [360 504] = Postcard(5 x 7) [432 648] = Postcard(6 x 9) [609 892] = 8.46 x 12.4 [252 278] to [841 1224] = Custom Paper
Media	<>	Size Where int is one of the following:

Feature	Implementation	Values
		(* indicates default value)
Direction	setpagedevice	0 = Short Edge; top of canonical page 1 = Long Edge; right side of canonical page 2 = Short Edge; bottom of canonical page 3 = Long Edge; left side of canonical page null* = Auto
Media Source	<int>> setpagedevice	Where <i>int</i> is one of the following: 0 = Tray1 1 = Tray2 2 = Tray3 null* = Auto
Media Source from SMH	<value>> setpagedevice	Where value is one of the following: true = Feed paper from byapss tray false* = Feed paper from a tray other than bypass tray
Media Weight	<> setpagedevice	Where real is in g/m²(gram per square- meter) or null* (MediaWeight will not affect any tray selection.)
Media Class	<> setpagedevice	Where string is one of the following or null*: fine = high grade paper stationary = normal paper stationary side2 = normal paper reverse recycled = recycled paper user1 = user defined paper 1 user2 = user defined paper 2 user3 = user defined paper 3 user4 = user defined paper 4 user5 = user defined paper 5 thick1 = thick paper 1 thick1 finisher = thick paper 1 for finishing thick2 = thick paper 2 transparency = transparency sheet label = label paper coating1 = coat paper 1 coating1 finisher = coat paper 1 for finishing coating2 = coat paper 2 thick1 side2 = thick paper 1 reverse thick2 side2 = thick paper 2 reverse coating1 side2 = coat paper 1 reverse coating2 side2 = coat paper 2 reverse

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Feature	Implementation	Values (* indicates default value)
Media Type	<>	Where string is any value or null*.
	setpagedevice	(MediaType will not affect any tray selection.)
Media	< <td>Where value is one of the following:</td>	Where value is one of the following:
Selection	value>> setpagedevice	true* = Deferred media selection by output device (more powerful and flexible media selection) false = Immediate media selection by strict setpagedevice operator
Print Mode	<pre><> >> setpagedevice</pre>	Where combination of x , y and int1 is one of the following: x y int1 = 600 600* 2 = 600x600dpi 1bit/color 1200 600 2 = 1200x600dpi 1bit/color
Duplex	/Duplex value >	Where value is one of the following:
	setpagedevice	true = Duplex false* = Simplex
Tumble	<value>> setpagedevice	This feature is effective only in conjunction with that Duplex is true Where value is one of the following: true = Tumble (Short edge binding Duplex) false* = Duplex (Long edge binding Duplex)
Image Enhancement	<pre><> >> setpagedevice</pre>	Where <i>int</i> is one of the following: 0 = No image enhancement 1* = Activate image enhancement
Toner Save	<pre><> >> setpagedevice</pre>	Where <i>int</i> is one of the following: 0* = No toner saving 1 = Lighten output density, toner saving
Halftone Screen Selection	<pre><> >> setpagedevice</pre>	Where <i>int</i> is one of the following: 0 = for text, graphics screen 1 = for photograph screen 2* = most suitable screen

Feature	Implementation	Values
		(* indicates default value)
Output	<>	Where <i>string</i> is one of the following or null*:
Location	setpagedevice	CENTER TRAY1 = facedown tray with
		center lower exit
		CENTER TRAY2 = facedown tray with
		center upper exit
		SIDE TRAY = side tray (faceup)
		FINISHER TRAY1 = finisher tray
Quantity	<>	Where <i>value</i> is one of the following:
	setpagedevice	integer from 1 to 999 : number of copies
.		null: Not specified
Collation	<>	Where <i>value</i> is one of the following:
	setpagedevice	true = collated
		false* = uncollated
Jog	<>setpagedevice	Where <i>int</i> is one of the following:
		0* = Do not offset
		3 = Offset at the beginning of each page
		[set]
Stapling	< <td>Where <i>int1</i> is one of the following:</td>	Where <i>int1</i> is one of the following:
	/StapleDetails << /Type 7	0* = Do not staple
	/Location int2 >>	3 = Staple at the end of each set
	>>	Where int2 is one of the following:
	setpagedevice	0* = top-left-single
	Scipagedevice	1 = bottom-left-single
		2 = top-right-single
		3 = bottom-right-single
		4 = top-double
		5 = bottom-double
		6 = left-double
		7 = right-double
		Note: With the integrated finisher 0, 1, 2,
		and 3 are valid depending on paper feed
		direction; 4, 5, 6 and 7 are unavailable
		regardless of paper size and feed
		direction.

Feature	Implementation	Values (* indicates default value)
Interleaving Paper (Transparency Separator)	< /SlipSheetDetails << /Type 1 /AutoTraySelect int2 /SheetTray int3 /MediaClass (string) >> >> setpagedevice 	Where <i>int1</i> is one of the following: 0* = Do not deliver interleaving paper. 4 = Deliver interleaving paper at the end of each page Where <i>int2</i> is one of the following: 0 = SheetTray is referred and feed interleaving paper from the SheetTray 1* = Feed interleaving paper from a tray following system setting. SheetTray is not referred. Where <i>int3</i> is one of the following: 0* = Feed interleaving paper from Tray1 1 = Tray2 2 = Tray3 100 = SMH Where <i>string</i> is same as the "Media Class" feature. It means media class for the
Process Color Model	<> setpagedevice	interleaving paper. Where name is one of the following: /DeviceGray /DeviceRGB (with Separations true) /DeviceCMYK /DeviceCMY (with Separations true) /DeviceRGBK (with Separations true)
RGB Correction	/DeviceRenderingInfo <</p /Type 26 /RGBCorrection int >> >> setpagedevice	Where <i>int</i> is one of the following: 0 = do not correct 1 = for photograph 2 = for WEB page 3* = standard correction 4 = for presentation document 5 = CAD 10 = Perceptual 11 = Saturation 12 = Relative colorimetric 13 = Absolute colorimetric
Gray Guaranteed	<pre>< /Type 26 /RGBToK int >> >> setpagedevice</pre>	Where <i>int</i> is one of the following: 0* = No gray guaranteed 1 = Gray guaranteed

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Feature	Implementation	Values (* indicates default value)
Gamma Correction	/DeviceRenderingInfo <</p /Type 26 /GammaCorrection int >> >> setpagedevice	Where <i>int</i> is one of the following: 0 = Do not correct 1 = Gamma 1.0 2 = Gamma 1.4 3* = Gamma 1.8 4 = Gamma 2.2 5 = Gamma 2.6
CMYK Correction	/DeviceRenderingInfo <</p /Type 26 /CMYKCorrection int >> >> setpagedevice	Where <i>int</i> is one of the following: 0* = Don't correct 2 = JapanColor2001(Coat) 4 = EuroScale(Art) 7 = SWOP-Coated
WhitePoint	<pre><> >> setpagedevice</pre>	Where <i>int</i> is one of the following: 0 = 5000K(D50) 1* = 6500K(D65) 2 = 9300K
RGBSpace	<pre><> >> setpagedevice</pre>	Where <i>int</i> is one of the following: 0* = sRGB 1 = AdobeRGB
Brightness	/DeviceRenderingInfo <</p /Type 26 /Brightness int >> >> setpagedevice	Where <i>int</i> is one of the following: 5 = Bright(+5) 4 = Bright(+4) 3 = Bright(+3) 2 = Bright(+2) 1 = Bright(+1) 0* = Normal -1 = Dark(-1) -2 = Dark(-2) -3 = Dark(-3) -4 = Dark(-4) -5 = Dark(-5)
Separations	<> setpagedevice	Where value is one of the following: true = Multiple color separations will be generated for each page of output. false* = All colorants will be combined into a single composite page on a single sheet of physical medium.

Feature	Implementation	Values (* indicates default value)
Separation	< <td>Where value is an array.</td>	Where value is an array.
Color Names	value>> setpagedevice	Legal element values are the process colorant names implied by the process color model.
		Valid colorant names for each process color model are like the following in case of separation
		DeviceCMYK = Cyan, Magenta, Yellow, Black
		DeviceCMY = Cyan, Magenta, Yellow
		DeviceRGB = Red, Green, Blue
		DeviceRGBK = Red, Green, Blue, Gray
		DeviceGray = Gray
Separation Order	<> setpagedevice	Where value is an array. Legal element values are the process colorant names implied by the process color model.
Use CIE Color	<>	Where value is one of the following:
	setpagedevice	true = Re-map each color from device color space to device independent's CIE- based color space false* = Do not re-map color

Sample PostScript Headers

Example 1 Header for Simple Print

%!PS

Example 2 Header for Finishing

(Letter paper, duplex, 10 copies with collation, stapling with left-upper single and stacker tray for output bin)

```
%!PS
<</PageSize [612 792]>>setpagedevice
<</Duplex true /Tumble false>>setpagedevice
<</OutputType (STACKER TRAY)>>setpagedevice
<</Collate true>>setpagedevice
<</NumCopies 10>>setpagedevice
<</Staple 3 /StapleDetails << /Type 7 /Location 0 >>
>>setpagedevice
```

PostScript Feature Dependencies/Caveats

- All DSC (document structure convention) comments are ignored and not interpreted.
- Valid media sizes for duplexing are between [396 x 420] and [841 x 1224] (point).
- Valid media sizes for stapling include A3, A4, B4, B5, 8.5 x 11, 8.5 x 13, 8.5 x 14, and 11 x 17.
- Valid media classes for duplex are fine paper, stationary, recycled paper, user1-5
 paper, thick paper 1 (for finisher), and coated paper (for finisher).
- Valid media classes for staple are fine paper, stationary, recycled paper, stationary side 2, user1-5 paper, thick paper 1 for finisher and coated paper 1 for finisher.

PostScript Fonts

The following PostScript fonts are resident with Adobe interpreter.

Font Name	PostScript Font Name
Albertus	/AlbertusMT
Albertus Italic	/AlbertusMT-Italic
Albertus Light	/AlbertusMT-Light
Antique Olive Roman	/AntiqueOlive-Roman
Antique Olive Italic	/AntiqueOlive-Italic
Antique Olive Bold	/AntiqueOlive-Bold
Antique Olive Compact	/AntiqueOlive-Compact
Apple Chancery	/Apple-Chancery
Arial	/ArialMT
Arial Italic	/Arial-ItalicMT
Arial Bold	/Arial-BoldMT
Arial Bold Italic	/Arial-BoldItalicMT
ITC Avant Garde Gothic Book	/AvantGarde-Book
ITC Avant Garde Gothic Book Oblique	/AvantGarde-BookOblique
ITC Avant Garde Gothic Demi	/AvantGarde-Demi
ITC Avant Garde Gothic Demi Oblique	/AvantGarde-DemiOblique
Bodoni Roman	/Bodoni
Bodoni Italic	/Bodoni-Italic
Bodoni Bold	/Bodoni-Bold

Font Name	PostScript Font Name
Bodoni Bold Italic	/Bodoni-BoldItalic
Bodoni Poster	/Bodoni-Poster
Bodoni Poster Compressed	/Bodoni-PosterCompressed
ITC Bookman Light	/Bookman-Light
ITC Bookman Light Italic	/Bookman-LightItalic
ITC Bookman Demi	/Bookman-Demi
ITC Bookman Demi Italic	/Bookman-Demiltalic
Carta	/Carta
Chicago	/Chicago
Clarendon Roman	/Clarendon
Clarendon Bold	/Clarendon-Bold
Clarendon Light	/Clarendon-Ligh
Cooper Black	/CooperBlack
Cooper Black Italic	/CooperBlack-Italic
Copperplate Gothic 32BC	/Copperplate-ThirtyTwoBC
Copperplate Gothic 33BC	/Copperplate-ThirtyThreeBC
Coronet	/Coronet-Regular
Courier	/Courier
Courier Oblique	/Courier-Oblique
Courier Bold	/Courier-Bold
Courier Bold Oblique	/Courier-BoldOblique
Eurostile Medium	/Eurostile
Eurostile Bold	/Eurostile-Bold
Eurostile Extended No. 2	/Eurostile-ExtendedTwo
Eurostile Bold Extended No. 2	/Eurostile-BoldExtendedTwo
Geneva	/Geneva
Gill Sans	/GillSans
Gill Sans Italic	/GillSans-Italic
Gill Sans Bold	/GillSans-Bold
Gill Sans Bold Italic	/GillSans-BoldItalic
Gill Sans Light	/GillSans-Light
Gill Sans Light Italic	/GillSans-LightItalic
Gill Sans Extra Bold	/GillSans-ExtraBold
Gill Sans Condensed	/GillSans-Condensed
Gill Sans Condensed Bold	/GillSans-BoldCondensed
Goudy Oldstyle	/Goudy
Goudy Oldstyle Italic	/Goudy-Italic
Goudy Bold	/Goudy-Bold
Goudy Bold Italic	/Goudy-BoldItalic
Goudy Extra Bold	/Goudy-ExtraBold
Helvetica	/Helvetica
Helvetica Oblique	/Helvetica-Oblique
Helvetica Bold	/Helvetica-Bold
Helvetica Bold Oblique	/Helvetica-BoldOblique
Helvetica Narrow	/Helvetica-Narrow
Helvetica Narrow Oblique	/Helvetica-Narrow-Oblique
Helvetica Narrow Bold	/Helvetica-Narrow-Bold
Helvetica Narrow Bold Oblique	/Helvetica-Narrow-BoldOblique
Helvetica Condensed	/Helvetica-Condensed
Helvetica Condensed Oblique	/Helvetica-Condensed-Oblique
Helvetica Condensed Bold	/Helvetica-Condensed-Bold
Helvetica Condensed Bold Oblique	/Helvetica-Condensed-BoldObl
Hoefler Text	/HoeflerText-Regular
Hoefler Text Italic	/HoeflerText-Italic
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Font Name	PostScript Font Name
Hoefler Text Black	/HoeflerText-Black
Hoefler Text Black Italic	/HoeflerText-BlackItalic
Hoefler Ornaments	/HoeflerText-Ornaments
Joanna	/JoannaMT
Joanna Italic	/JoannaMT-Italic
Joanna Bold	/JoannaMT-Bold
Joanna Bold Italic	/JoannaMT-BoldItalic
Letter Gothic	/LetterGothic
Letter Gothic Slanted	/LetterGothic-Slanted
Letter Gothic Bold	/LetterGothic-Bold
Letter Gothic Bold Slanted	/LetterGothic-BoldSlanted
ITC Lubalin Graph Book	/LubalinGraph-Book
ITC Lubalin Graph Book Oblique	/LubalinGraph-BookOblique
ITC Lubalin Graph Demi	/LubalinGraph-Demi
ITC Lubalin Graph Demi Oblique	/LubalinGraph-DemiOblique
Marigold	/Marigold
Monaco	/Monaco
ITC Mona Lisa Recut	/MonaLisa-Recut
New Century Schoolbook Roman	/NewCenturySchlbk-Roman
New Century Schoolbook Italic	/NewCenturySchlbk-Italic
New Century Schoolbook Bold	/NewCenturySchlbk-Bold
New Century Schoolbook Bold Italic	/NewCenturySchlbk-BoldItalic
NewYork	/NewYork
OCR-B Letterpress M	/OCRBLetM
Optima Roman	/Optima
Optima Italic	/Optima-Italic
Optima Bold	/Optima-Bold
Optima Bold Italic	/Optima-BoldItalic
Oxford	/Oxford
Palatino Roman	/Palatino-Roman
Palatino Italic	/Palatino-Italic
Palatino Bold	/Palatino-Bold
Palatino Bold Italic	/Palatino-BoldItalic
Stempel Garamond Roman	/StempelGaramond-Roman
Stempel Garamond Italic	/StempelGaramond-Italic
Stempel Garamond Bold	/StempelGaramond-Bold
Stempel Garamond Bold Italic	/StempelGaramond-BoldItalic
Symbol	/Symbol
Tekton Regular	/Tekton
Times Roman	/Times-Roman
Times Italic	/Times-Italic
Times Bold	/Times-Bold
Times Bold Italic	/Times-BoldItalic
Times New Roman	/TimesNewRomanPSMT
Times New Roman Italic	/TimesNewRomanPS-ItalicMT
Times New Roman Bold	/TimesNewRomanPS-BoldMT
Times New Roman Bold Italic	/TimesNewRomanPS-BoldItalicMT
Univers 45 Light	/Univers-Light
Univers 45 Light Oblique	/Univers-LightOblique
Univers 55	/Univers
Univers 55 Oblique	/Univers-Oblique
Univers 65 Bold	/Univers-Bold
Univers 65 Bold Oblique	/Univers-BoldOblique
Univers 57 Condensed	/Univers-Condensed
STREETS OF CONGONOCO	/OTHVOIS CONGUNISCU

Font Name	PostScript Font Name
Univers 57 Condensed Oblique	/Univers-CondensedOblique
Univers 67 Condensed Bold	/Univers-CondensedBold
Univers 67 Condensed Bold Oblique	/Univers-CondensedBoldOblique
Univers 53 Extended	/Univers-Extended
Univers 53 Extended Oblique	/Univers-ExtendedObl
Univers 63 Extended Bold	/Univers-BoldExt
Univers 63 Extended Bold Oblique	/Univers-BoldExtObl
Wingdings	/Wingdings-Regular
ITC Zapf Chancery Medium Italic	/ZapfChancery-MediumItalic
ITC Zapf Dingbat	/ZapfDingbats

Additional Information

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

You can reach Xerox Customer Support at 1-800-821-2797 (USA), TTY 1-800-855-2880 or at http://www.xerox.com.

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