

Intermate Advanced Print Server IAPS - IPDS PCL "Full Page" for Kyocera Mita Printers



1 Introduction

Many Kyocera Mita printers are capable of printing PCL "Full Page", which approximates PCL edge-to-edge. However, in order to exploit this, you must change the printer's settings to enable Full Page with the FRPO R3 parameter and optimize the result with the eight FRPO L-parameters (L1-L8).

This document shows you how to configure the IAPS to make the necessary settings in the printer. The details of the example apply to a Kyocera Mita FS-3800 printer.

The IAPS product support site (templates page) includes a document entitled "Full Page Printing of the FS-Series", which gives you the settings for other printer models. You may need to use your printer documentation or ask Kyocera Mita for additional information on your printer.

2 How to configure the IAPS

These instructions are for drivers that use the PCL language (PCL backend).

- 1) On Configuration: Drivers > Miscellaneous, tick the "PCL Edge to Edge Printing" box. This tells the IAPS that the printer is edge-to-edge capable.
- 2) Enter FRPO command strings in the PCL "Job Begin" and "Job End" fields on that page. Note that you cannot see the full strings in the screen shot. In the GUI you navigate within the field by using right and left arrows on the keyboard. The strings are shown in their entirety and explained in "How to set up the FRPO strings" on page 2.

Configuration > Drivers or Driver Templates > Miscellaneous

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Template: "Kyocera FS-3800 (A4) FRPO - PCL" Language: PCL

Miscellaneous:

Job Begin/End Strings:

PJL		PCL	
Job Begin	Job End	Job Begin	Job End
		"!R!FRPO R3,1; FRPO L1,00;	"!R!FRPO R3,0; FRPO L1,00;

Resolutions Supported:

DPI			
<input checked="" type="checkbox"/> 75	<input checked="" type="checkbox"/> 150	<input checked="" type="checkbox"/> 300	<input checked="" type="checkbox"/> 600

Duplexing: If left empty, language standard strings are used

Simplex	Duplex Long Edge	Duplex Short Edge	Language
			Current

PCL Edge to Edge Printing

Enable Font Caching at Target : Max Caching Size : 4096 KB

Color Target or Color Simulation Supported at Target

3) Save the settings.

When you print to an IPDS Service that uses the driver in question, the IAPS will send these settings to the printer before and after each job.

3 How to set up the FRPO strings

3.1 The example

The R3 parameter enables Full Page when it is set to 1, and disables it when set to 0. In the “Full Page Printing” document, the R3 parameter is referred to as the parameter D1.

In the “Full Page Printing” document you will see the following values for L1 – L8 for the FS-3800:

Standard FS-3800	00	68	00	69	10	61	08	11
Value for FS-3800 Full page	00	58	00	67	10	93	08	45

To enable Full Page, type the following string into the “PCL: Job Begin” field:

```
"!R!FRPO R3,1; FRPO L1,00; FRPO L2,58; FRPO L3,00; FRPO L4,67; FRPO L5,10; FRPO L6,93; FRPO L7,08; FRPO L8,45; EXIT;"/0A
```

To restore Standard print settings, type the following string into the “PCL: Job End” field:

```
"!R!FRPO R3,0; FRPO L1,00; FRPO L2,68; FRPO L3,00; FRPO L4,69; FRPO L5,10; FRPO L6,61; FRPO L7,08; FRPO L8,11; EXIT;"/0A
```

Important: This example shows how to restore Standard settings. However, each printer is individually adjusted at the factory, so your printer will probably not have “Standard” settings. Therefore, before you use the procedures described here, if the printer prints non-IPDS jobs satisfactorily, the first thing you should do is to take note of the current settings for L1-L8 and R3 as shown in “How to find the printer’s settings for R3 and L1-L8” on page 2. Use these settings in the “PCL: Job End” field.

3.2 What the L-parameters control

The L parameters set the “PCL Default Margins” using four elements: “Top Margin” (non-printable border), “Left Margin” (non-printable border) and the page’s physical extent (Length and Width).

The Bottom Margin is the same as the Top Margin. The Right Margin is the same as the left Margin.

The L-parameters work in pairs, and each member of a pair has two digits. The odd-numbered parameters describe measurements in whole inches; the even-numbered parameters present a measurement in 1/100 of an inch.

L1 and L2 describe the “Top Margin”; L3 and L4 describe the “Left Margin”

L5 and L6 describe the page length; L7 and L8 describe the page width.

In the Full Page settings for our example: L1 = 00 and L2 = 0.58, which gives a “Top Margin” of 0.58 inch. And so on for the other six L-parameters.

4 How to find the printer’s settings for R3 and L1-L8

4.1 Print a status sheet

Print a status sheet to obtain the printer’s current settings.

4.2 The R3 parameter

The R3 parameter is shown in the column labelled “Interface Independent Parameters”.

In this example, the heading text for R3 is “Reserved”, and the current, Standard setting is 0, written on the status page as 00. To enable Full Page, as shown in “How to set up the FRPO strings” on page 2, you would have to send R3, 1 as part of the Job Start string.

Duplex option	N4	00
Sleep timer	N5	01
Ecoprint mode	N6	00
Reserved	N7	00
Resolution	N8	01
Resource protect	N9	00
Command Recog. char.	P9	82
Default stacker	R0	01
Auto cassette mode	R1	00
Default paper size	R2	00
Reserved	R3	00
Default cassette	R4	01
Page protect mode	R5	01
MP Tray size	R7	07

4.3 The L-parameters

The eight L-parameters are found at the bottom of the Status Page in the box called "Service Information".

```

Service information
[0A00/A017][C1][12.00 ][01] To
/P00/S00/D00/RS2/5A/00/[008F-000B]/AE.B/1/20/27
/0058/0067/1093/0845/- 16/ 0/ 0/ 0/ 0/
/AACDH0G/
/003D/0100/0100/0000/0100/0000/0000/0100/0000
/00800080/00008000/00000080/80000000/00000000/0
SPD1:FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
SPD2:FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
/0204000000000000/0000000000000000/000000000000
DN:GJB0803336 SN:VAC0801329

```

The L-parameters are written differently than they are in FRPO strings.

This example shows the correct settings for Full Page for this printer:

- /0058 stands for L1 = 00 and L2 = 58 and sets the printer's "Top Margin" = 00.58 inch
- /0067 stands for L3 = 00 and L4 = 67 and sets the printer's "Left Margin" = 00.67 inch
- /1093 stands for L5 = 10 and L6 = 93 and sets the printer's page length = 10.93 inches
- /0845 stands for L7 = 08 and L8 = 45 and sets the printer's page width = 8.45 inches

5 Notices

5.1 Publication

File Name: Using KyoceraMita FRPO commands to get near edge to edge Capabilities-rev1.pdf
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