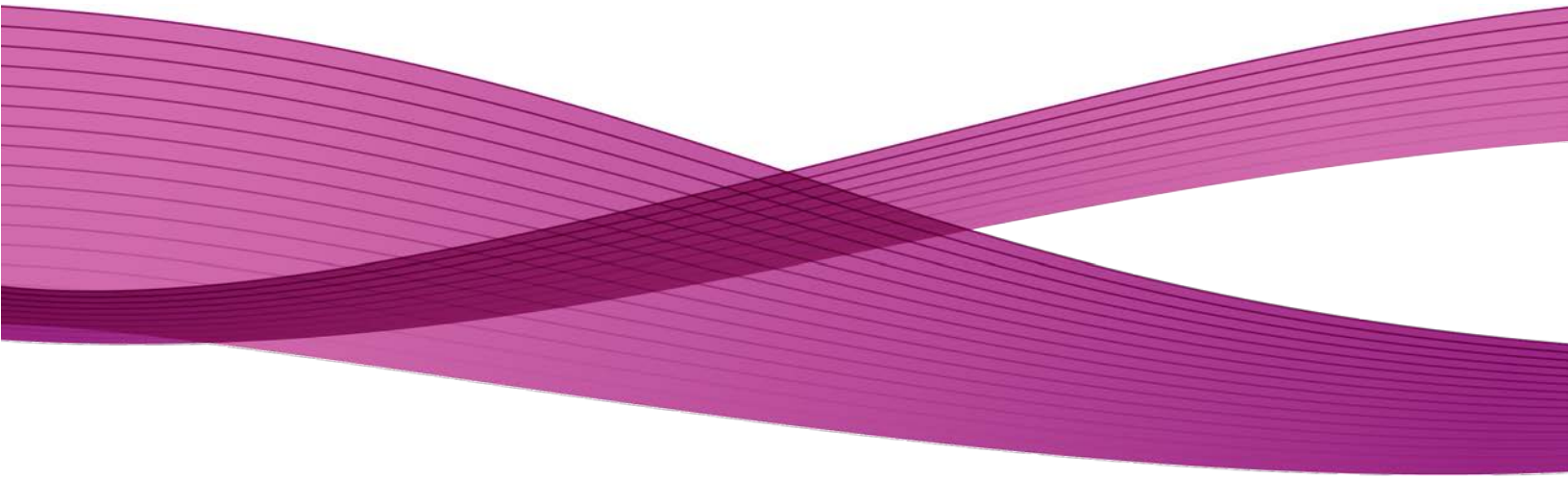
# *XPAF V10R0*
# *Technical Bulletin TB1146*
# *LCDS to PostScript Transform*



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Companies, names and data used in examples herein are fictitious unless otherwise noted.

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# 1. Overview

This document describes the support for LCDS to PostScript transform that was added to XPAF 9.0 and XAF 10.0 under maintenance Q/PA55482 (available with maintenance kit Q/PA1119 or later)

## LCDS to PostScript Transform

AR55482 adds support for the LCDS to PostScript Transform which enables the conversion of LCDS (DJDE and Metacode) documents to PostScript for printing on any Xerox PostScript Capable printer.

After applying the maintenance, you must follow the extra installations steps described in this document and purchase a valid XPAF_PS license string.

For information on purchasing a XPAF_PS license string, contact the Xerox XPAF Order desk at xpaf@xerox.com

# 2.Adding the LCDS to PostScript transform

This chapter describes how to upgrade an existing XPAF/XPAF-Lite installation to use the PostScript transform to convert LCDS documents to PostScript.

## Installation Overview

To add the PostScript transform, you will do the following:

- Ensure the LCDS resources are loaded in to the CxxxxLIBs and JSL has been loaded into PDLLIB.
- If you have not previously defined the decentralized resource libraries:
  - Define and initialize the intermediate DFONTLIB, DFORMLIB and DIMGLIB
  - Reload the default offload DFONTLIB
- Define and initialize the PostScript resource libraries PSFNTLIB, PSFRMLIB, and PSIMGLIB
- Update the XOSF PROC to refer to the new libraries
- Add the new license string
- Define a new printer profile to enable PostScript printing
- Review and specify the PostScript specific Printer Profile Parameters
- Test the updates

## Installation Steps

**Step 1.** Ensure the LCDS resources are loaded into the XPAF libraries. If you have not previously transferred your LCDS resources to the mainframe, Refer to the XPAF User Documentation, Section Two, Chapter 11, “Loading LCDS Resources From a FreeFlow Print Server”.

**Step 2.** To define and initialize the intermediate resource libraries, DFONTLIB, DFORMLIB and DIMGLIB, review and submit STAGE2(RDLB100)

**Step 3.** To define and initialize the PostScript resource libraries, PSFNTLIB, PSFRMLIB and PSIMGLIB, review and submit STAGE2(RPS100). Note: If you are adding the Postscript transform to an existing system and do not have member RPS100 in your STAGE2 library, use XPFSAMP(RPS100) as a template.

**Step 4.** Update the XOSF PROC to add DD statements for the new libraries

```
//XOSF00  PROC
//XOSF00  EXEC PGM=XINMAIN,REGION=0M
//STEPLIB  DD  DISP=SHR,DSN=your.hlq.XPFLOAD
//*
 ...
//*
//* ******************************************************
//*              FONT LIBRARIES                          *
//* ******************************************************
//CFONTLIB DD  DISP=SHR,DSN=your.hlq.CFONTLIB
//DFONTLIB DD  DISP=SHR,DSN=your.hlq.DFONTLIB
//PSFNTLIB DD  DISP=SHR,DSN=your.hlq.PSFNTLIB
//*
//*
//* ******************************************************
//*              FORM LIBRARIES                          *
//* ******************************************************
//CFORMLIB DD  DISP=SHR,DSN=your.hlq.CFORMLIB
//DFORMLIB DD  DISP=SHR,DSN=your.hlq.DFORMLIB
//PSFRMLIB DD  DISP=SHR,DSN=your.hlq.PSFRMLIB
//*
//*
//* ******************************************************
//*              IMAGE LIBRARIES                         *
//* ******************************************************
//CIMGLIB  DD  DISP=SHR,DSN=your.hlq.CIMGLIB
//DIMGLIB  DD  DISP=SHR,DSN=your.hlq.DIMGLIB
//PSIMGLIB DD  DISP=SHR,DSN=your.hlq.PSIMGLIB
//*
```

**Step 5.** Update XINPARM(XINSLSTR) and add the new XPAF-PS license string

**Step 6.** Add/Update a printer profile for the PostScript printer a template can be found in XPFSAMP(PRTPS)

```
DEVICE=PS
AUTOREV=Y,                      Auto revision of resources
BANSTYLE=JES,                   Style of separator pages
FEATURE=(DUPLEX,COLOR, PDFDUPLEX)   Enable PDFDUPLEX
IPADDR=xxx.xxx.xxx.xxx,         Printer IP address
TCPMODE=TCPLPR,                 Use the LPR protocol
LPRQNAME=qqqqq,                 Queue name on the printer
TCPLPRDSN=DELETE,               Delete temp dataset after LPR
LPRDSN=your.hlq.XINPARM         Datatset for member related parms
PS_MEDIA_LIST=psmlname          Name of the PS Media List
XTCPJNAM=JESINFO,               Display JES info on printer GUI
```

**Step 7.** Copy the sample PostScript Media List, XPFSAMP(PSMEDIAL), into the member specified by the printer profile parameters LPRDSN and PS_MEDIA_LIST and update it for your environment.

**Step 8.** Review and, optionally set, the following Printer Profile Parameters:

- PGXSCALE and PGYSCALE for scaling the printed output
- PGXSHIFT and PGYSHIFT for shifting the printed output on the page

**Step 9.** Start the new printer in JES and print a test job.

# 3.Configuration Activities

This section provides information on the PostScript Transform specific features and options and include:

Specifying the PostScript Media List

Optional PostScript related printer profile parameters.

## Optional Printer Profile Parameters

The following printer profile parameters are relevant to coverted documents to PostScript

## LCDS to PostScript Media Lists

This section describes how to define a PostScript Media list to map LCDS FEED stock names, or references, to PostScript Media definitions.

XPAF uses the Cluster Mapping table to allow users to map a FEED name to a specific tray number. This tray number will then be used to index the required item in the XPAF PostScript Media list which defines the color, type, and weight of the stock to use on the printer.

### The XPAF Cluster Mapping Table

XPAF uses the Cluster Mapping table to allow users to map a FEED name to a specific tray number.

**NOTE:** The paper size is not used in either the cluster mapping table, nor the PostScript Media List. It is taken from the paper size defined in the JDE/JDL being used (or the system default if not specified).

To create a new Cluster Mapping Table, use XOAF option 4.1.3 (refer to Chapter 20 of the XPAF User Documentation).

The cluster mapping table is referenced by the CLUSTRTB printer profile parameter.

## Cluster Mapping Table example:

The following cluster mapping table maps a FEED with the name of “MAIN” to a numeric value “1”.

```
               Xerox Output Administrative Facility      Row 1 to 8 of 8
                  Maintain Cluster Mapping Table

COMMAND ===>                                                  ===> CSR

* Next to name, enter 'A' to add, 'D' to delete, or 'U' to update.

  Table Name: DEFAULTPS


  CLUSTER NAME  PAPER NAME             TRAY SEL
                LETTER                       1
  AUX           LETTER                       2
  MAIN          LETTER                       1
  OPR           LETTER                       1
  TRAY1         LETTER                       1
  TRAY2         LETTER                       2
  TRAY3         LETTER                       3
  TRAY4         LETTER                       4
****  END OF CLUSTER MAPPING TABLE  ****
```

## The XPAF PostScript Media List

The tray number, found in the cluster mapping table for the relevant LCDS FEED value, will then be used to index the required item in the XPAF PostScript media list which defines the color, type, and weight of the stock to use.

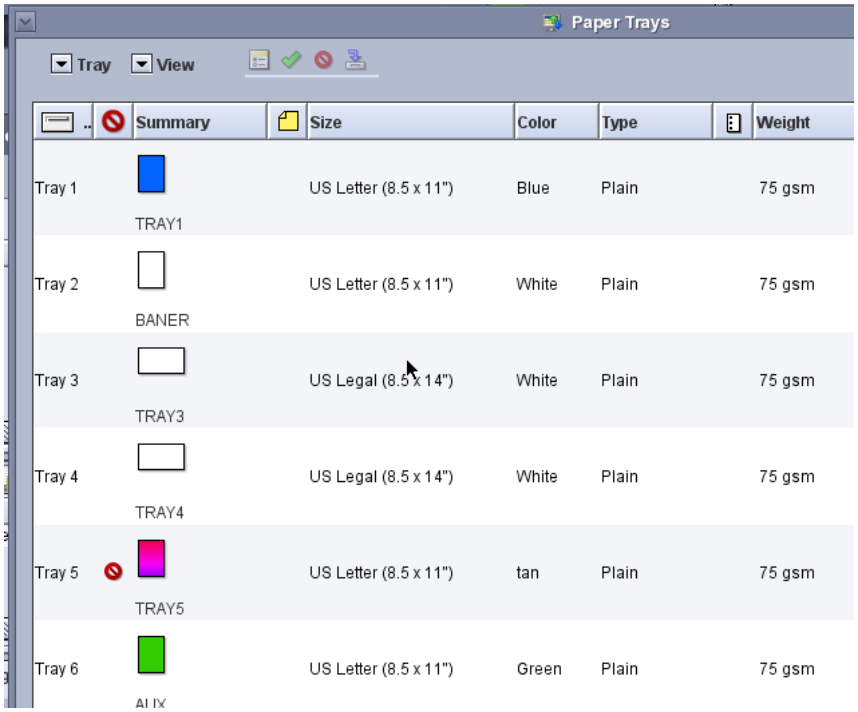
The following PostScript Media List maps the value “1” to White, Plain, 75 gsm.

```
*
* PostScript Media List
*
* Format is  nn <color>,<type>,<weight>
*
* Where
*   nn is the two-digit tray number 00 to 99.
*
* Refer to the Cluster Mapping Table to match LCDS FEED names to the
* corresponding two-digit tray number
*
* Unspecified values will receive a value of 'null' and will use the
* currently in-use value for that setting
*
*
01 White,Plain,75
02 Green,
03 Tan,,
*  Yellow,,,             Color = Yellow. Type = Plain , Weight = 75gsm
04 Yellow,,,
05 ,TYPEONLY,,
06 ,,200
*   Color = Yellow, Type = LetterHead, Weight=100gsm
07 Yellow,LetterHead,100,
```

The printer will use the media that matches the media attributes provided.

## FreeFlow Print Server Paper Tray Example

If a FleewFlow Print Server has the following Paper Trays defined:




If the paper size is 8.5 x 11”, the media will be selected from physical 2ray 2.

If the paper size is 8.5 x 14”, the media will be selected frm physical page tray 3 or 4.

# 4.New and Updated Messages

This chapter documents the new and updated messages issued by the XPAF LCDS to PostScript transform.

## XPS1104E

**XPS1104E POSTSCRIPT FONT SUBSTITUTION ERROR: UNABLE TO OPEN SUBSTITUTION TABLE**

Explanation: During LCDS-to-PostScript conversion, XOSF was unable to open the PostScript font substitution table.

System response: Font substitution is ignored, and document processing continues.

User action: Ensure that the table name has been specified correctly.

## XPS3010F

**XPS3010F COULD NOT GET X'STORAGE SIZE' BYTES OF MEMORY ACTIVITY**

Explanation: Insufficient storage was available for the conversion routine to obtain the requested amount for the required data buffer.

System response: The resource cannot be converted. Document processing is terminated. The document remains in the output buffer.

User action: Increase the region size allocated to the XOSF start-up proc or drain the other printers, then retransmit the document. If the problem persists, call Xerox Technical Support.

## XPS3011E

**XPS3011E COULD NOT RELEASE X'STORAGE SIZE' BYTES OF MEMORY FROM LOCATION X'STORAGE ADDRESS' ACTIVITY**

Explanation: The storage used for transformation processing was not released, and the document may be incorrect. This is an internal error.

System response: Document processing is terminated.

User action: Call Xerox Technical Support.

## XPS6393W

**XPS6393W WARNING MESSAGE ISSUED BY XPSMAIN DURING POSTSCRIPT PROCESSING, DUE TO INVALID RETURN CODE FOR XES COMMAND ESCAPE SEQUENCE**

Explanation: During PostScript conversion, an invalid escape sequence has been detected.

System response: The invalid escape sequence is ignored, and document processing continues.

User action: Ensure that the escape sequence is valid and that the XES data stream has been created correctly. If the escape sequence appears to be valid, call Xerox Technical Support.

## XPS4142W

**XPS4142W XES INLINE FONT AREA EXCEEDED. INLINE FONT WILL BE IGNORED.**

Explanation: An XES inline font was encountered that exceeded the allowable font size.

System response: The XES font is discarded. Processing continues.

User action: If this is an XES document, ensure that all fonts are separated by an <esc>+F or an <esc>+A, otherwise contact Xerox Technical Support.

## XPS4143E

**XPS4143E XES INLINE FONT TABLE EXCEEDED. DOCUMENT WILL BE ABORTED.**

Explanation: An XES inline resource was encountered that required more than 4MB of internal storage.

System response: The document is aborted.

User action: Contact Xerox Technical Support.

## XPS4144E

**XPS4144E RESOURCE FRAGMENT DETECTED, BUT NO RESOURCE LOAD IN PROGRESS.**

Explanation: An internal processing error has occurred.

System response: The document is aborted.

User action: Contact Xerox Technical Support.

## XPS4145E

**XPS4145E MORE THAN 64 IMAGES ON A PAGE ARE NOT CURRENTLY SUPPORTED**

Explanation: When converting a document to PostScript a page was encountered that contained more than 64 images.

System response: The 65th and subsequent images are dropped from the page.

User action: Contact Xerox Technical Support to request that the maximum number of images allowed on a page is increased.