

# *Section Nine: Appendices*

This section contains the appendices to the XPAF documentation.

Appendix A provides instructions on using the LDMUTIL utility to define and initialize your native resource libraries.

Appendix B provides sample JCL to use for uploading resources from a tape to a the host system.

Appendix C identifies the initialization and printer profile parameters related to managing resources.





## A. *Defining and initializing native libraries*

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You can use the library data management utility (LDMUTIL) to initialize and maintain native libraries. LDMUTIL is a batch utility that provides these functions:

- Initialize a native library
- Offload data from a native library
- Reload data that has been offloaded
- Verify the space bitmap in a library
- List directory entries or library statistics
- Expand the size of a native library

Because of the nature of these functions, some of them cannot be performed through XOAF.

### *Executing an LDMUTIL function*

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LDMUTIL reads a parameter card, which specifies the name of the function being executed and the name of the dataset against which the function is to be performed. You can specify multiple parameter cards for one execution of LDMUTIL.

#### *Parameter card conventions*

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The parameter card is free-form, with these restrictions:

- No continuations are permitted.
- Both the function and dataset name must be included in the same card.

A function name can be coded in full or truncated to as few characters as required to identify it uniquely. For example, any of these options invokes the offload function:

O  
OF  
OFF  
OFFL  
OFFLO  
OFFLOA  
OFFLOAD

## Required DD statements

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Include these DD statements in your JCL:

Statement	Function
<b>LDMPARM</b>	Indicates LDMUTIL commands which can be stored in a dataset or included instream.
<b>LDMPRINT</b>	Indicates where LDMUTIL should log any messages produced during execution. This entry may specify SYSOUT or the name of a message dataset. If a dataset, it must have these file specifications:  LRECL=133 RECFM=FA BLKSIZE=1330
<b>SYSUT1</b>	Names the input dataset for the reload function only.
<b>SYSUT2</b>	Names the output dataset for the offload function only. The maximum record length in a native library is 64K. File size definitions are not required because XOSF allocates the file automatically when you submit the job.

## Offload and reload options

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With both the offload and reload functions, you can use the INCLUDE, EXCLUDE, and wildcard options to make these functions more efficient. The function of each option is described below.

When using the options, follow these conventions:

- Use of the keywords INCLUDE or EXCLUDE is optional, the default is INCLUDE.
- The input card is free-form. You can enter the option and member name(s) in any order.
- You cannot specify the INCLUDE and EXCLUDE options on the same input card.
- The options cannot be abbreviated. For example, you can enter INCLUDE, but not INC.
- The dataset name, option, and member name(s) must be separated by commas.

### *INCLUDE option*

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Specify INCLUDE to offload or reload specific members from a library. For example, you could use any of these input cards to offload only the AAC129 member:

```
OFFLOAD prefix.library-name,AAC129,INCLUDE
OFFLOAD prefix.library-name,INCLUDE,AAC129
OFFLOAD prefix.library-name,AAC129
```

This example offloads the AAC129 and AAC130 members:

```
OFFLOAD prefix.library-name,INCLUDE,AAC129,AAC130
```

Including all members is the default and does not need to be specified. For example, you could use this input card to offload all the members from the native library named *prefix.TABLELIB*:

```
OFFLOAD prefix.TABLELIB
```

### *EXCLUDE option*

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Specify EXCLUDE to offload or reload all the members in a library except the ones identified in the command. For example, you could use either of these input cards to reload to *prefix.library-name* all the members except AAC129 and AAC130:

```
RELOAD prefix.library-name,AAC129,AAC130,EXCLUDE
RELOAD prefix.library-name,EXCLUDE,AAC129,AAC130
```

### *Wildcard option*

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Use an asterisk ( \* ) as a wildcard to select member names with a particular prefix. For example, you could use this input card to offload all the members with FONT as the first four characters of their names:

```
OFFLOAD prefix.library-name,INCLUDE,FONT*
```

### *Abends*

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If any function gives a non-zero return code, LDMUTIL abends with a user abend.

An error message indicating why the abend occurred may be included in the job listing.

## Initializing a native library

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The initialize function prepares a native library for use. It defines a new native library, builds the header record, and initializes each library block in the library as empty. Before you can initialize a native library, you must allocate it using the IBM IDCAMS utility.

Example:

```
//job-name JOB job-information
//LDINIT EXEC PGM=LDMUTIL, REGION=2048K
//STEPLIB DD DSN=prefix.XPFLOAD, DISP=SHR
//SYSPRINT DD SYSOUT=class
//LDMPRINT DD SYSOUT=class
//LDMPARM DD *
INITIALIZE prefix.library-name
```




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**NOTE:** When you use this function, MVS issues message IEC070I for each dataset initialized. This is not an error; the message simply indicates that initialization is complete.

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## Offloading data from a native library

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The offload function copies data from a native library to a sequential dataset defined by SYSUT2. You can use the INCLUDE, EXCLUDE, and wildcard options.

Example:

```
//job-name JOB job-information
//OFFLOAD EXEC PGM=LDMUTIL, REGION=2048K
//STEPLIB DD DSN=prefix.XPFLD, DISP=SHR
//SYSUT2 DD DSN=output-dataset-name,
//          DISP=(NEW,CATLG),UNIT=storage-unit,
//          SPACE=(TRK,(45,45)),VOL=SER=volser
//SYSPRINT DD SYSOUT=class
//LDMPRINT DD SYSOUT=class
//LDMPARM DD *
OFFLOAD prefix.TABLIB1,INCLUDE,AAC129,AAC130
```



**CAUTION:** To enter more than one OFFLOAD statement per job execution, you must include DISP=MOD on the SYSUT2 statement. If you specify two or more OFFLOAD statements and do not specify DISP=MOD, the library from the last OFFLOAD statement will overwrite the previous offloads.

## Reloading data that has been offloaded

The reload function reloads members that have been offloaded by the offload function.



**CAUTION:** You can only reload a member that was offloaded via XOSF. If you performed the offload via XOAF, you must use XOAF to reload the member.

You can use the INCLUDE, EXCLUDE, and wildcard options. Enter multiple input cards as needed to include a number of individual members.

Example:

```
//job-name JOB job-information
//RELOAD      EXEC  PGM=LDMUTIL, REGION=2048K
//STEPLIB     DD    DSN=prefix.XPFLOAD, DISP=SHR
//SYSUT1      DD    DSN=input-library-name, DISP=SHR,
//              DCB=(BLKSIZE=32000, LRECL=X, RECFM=VBS)
//SYSPRINT    DD    SYSOUT=class
//LDMPRINT    DD    SYSOUT=class
//LDMPARM     DD    *
RELOAD prefix.TABLIB1, INCLUDE, AAC129, AAC130, AAC131
RELOAD prefix.TABLIB1, INCLUDE, AAC136, AAC138
```

## Verifying the space bitmap in a library

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The verify function follows the block chain pointers in the library blocks allocated to a library member, and marks the blocks as allocated in the space map. This function does not check for corrupted chains or verify that the dataset content is correct.

Example:

```
//job-name JOB job-information
//VERI FY      EXEC  PGM=LDMUTI L, REGI ON=2048K
//STEPLI B    DD    DSN=prefix. XPFLoad, DI SP=SHR
//SYSPRI NT   DD    SYSOUT=class
//LDMPRI NT   DD    SYSOUT=class
//LDMPARM     DD    *
VERI FY prefix. library-name
```

## Listing directory entries

The directory function prepares a list of the directory entries in a library. The listing shows this information:

- Member name
- Date and time of creation
- Date and time of last update
- Number of records
- Length of the user portion of the directory entry
- Up to eight bytes of data from the user portion of the directory entry

Example:

```
//job-name JOB job-information
//LDMUTL EXEC PGM=LDMUTL, REGION=2048K
//STEPLIB DD DSN=prefix.XPFL0AD, DISP=SHR
//SYSPRINT DD SYSOUT=class
//LDMPRINT DD SYSOUT=class
//LDMPARM DD *
DI RECTORY prefix.library-name
```

The directory listing that is created looks similar to this:

MEMBER NAME	CREATE DATE	CREATE TIME	UPDATE DATE	UPDATE TIME	NUMBER OF RECORDS	USER LENGTH	8 BYTES OF DATA IN HEX
FONTFF0	8/22/95	12:34:56	11/05/95	6:20:08	5	0	
FONTFF1	8/22/95	12:35:01	11/25/95	2:02:00	5	0	
FORMFF0	1/01/95	11:40:50	1/25/95	9:15:21	1	0	
FORMFF1	1/01/95	11:40:51	1/25/95	9:15:22	1	0	
FORMFF5	1/01/95	11:40:52	1/25/95	9:15:23	1	0	
IMAGFF0	4/01/95	12:34:56	4/17/95	10:00:44	178	0	

## Listing library statistics

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The statistics function prepares a list of statistics for a native library. The listing shows this information:

- Date and time the directory was created
- Number of active members
- Blocks available
- Blocks used
- Blocks allocated

Example:

```
//job-name JOB job-information
//LDMUTL EXEC PGM=LDMUTL, REGION=2048K
//STEPLIB DD DSN=prefix.XPFLoad, DISP=SHR
//SYSPRINT DD SYSOUT=class
//LDMPRINT DD SYSOUT=class
//LDMPARM DD *
STATISTICS prefix.library-name
```

The library statistics listing that is created looks similar to this:

```
LIBRARY STATISTICS FOR prefix.library-name
DATE OF CREATION : 95/198
TIME OF CREATION : 12:34:00
NUMBER OF ACTIVE MEMBERS : 150
NUMBER OF BLOCKS AVAILABLE : 0
NUMBER OF BLOCKS USED : 896
NUMBER OF BLOCKS ALLOCATED : 896
```

## Expanding the size of a native library

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Occasionally, XPAF issues a message letting you know that a native library has become full. You also can find out if a library is full by using the LDMUTIL statistics function. When this happens, you should expand the size of the library.

XPAF manages the VSAM cluster as its own library, complete with space map and directory pointers. If you use IDCAMS REPRO to offload this library and DELETE/DEFINE followed by a REPRO to restore the cluster, you will not increase the size of the native library.



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**NOTE:** You may want to use IDCAMS to perform a backup of the native library before you increase its size.

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Perform these steps to expand the full library:

- Step 1.** Create a VBS record dataset, then offload the native library to the dataset. Refer to “Offloading data from a native library” earlier in this chapter for sample JCL to use.
- Step 2.** Using IDCAMS, DELETE and DEFINE a new native library with an increased cluster size. To determine the IDCAMS DEFINE specifications, view the JCL for the resource installation job RJOB101 used for installing XPAF.
- Step 3.** Initialize and reload the expanded cluster from the offload dataset. Refer to “Initializing a native library” and “Reloading data that has been offloaded” earlier in this chapter for sample JCL to use.

## B. *Uploading resources from tape to host*

You can use this sample JCL to copy the members from a tape into a library on the host. Be sure to make the necessary changes for your site's requirements.

Before you submit this JCL, make sure that a library has been allocated and initialized. For instructions, refer to appendix A, "[Defining and initializing native libraries](#)."

### *Sample JCL*

```
//job-name JOB job-information
//*      YOU MUST CHANGE THE FOLLOWING:
//*      1.  nnnnnn - EXTERNAL NAME ON THE INPUT TAPE AND
//*      TAPE VOL=SER
//*      2.  member-name - PDS MEMBER NAME INTO WHICH TAPE
//*      MEMBER IS LOADED
//*      3.  DCB INFORMATION FOR SYSUT1:
//*      JDL - F,80,80
//*      FONTS, FORMS, IMAGES - FB,128,512
//*      4.  DCB INFORMATION FOR SYSUT2:
//*      JDL - F,80,MULTIPLE OF 80
//*      FONTS, FORMS, IMAGES - FB,128,512
//*      5.  SPACE - ADJUST FOR RESOURCES BEING OFFLOADED
//*      6.  volser - VOLUME SERIAL NUMBER FOR OUTPUT PDS
//DELETE EXEC PGM=IEFBR14
//DD1      DD DSN=dataset-name,
//          DISP=(MOD,DELETE,DELETE),
//          UNIT=3380,SPACE=(TRK,(0,0))
//UPLOAD  EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSUT1  DD UNIT=TAPE,DSN=nnnnnn,
//          DCB=(RECFM=X,LRECL=XX,BLKSIZE=XXX),
//          LABEL=(1,BLP),DISP=(OLD,PASS),VOL=SER=nnnnnn
//SYSUT2  DD DSN=dataset-name(member-name),
//          DISP=(NEW,CATLG,DELETE),
//          DCB=(RECFM=XX,LRECL=XX,BLKSIZE=XXX),
//          SPACE=(TRK,(10,1,5)),UNIT=3380,VOL=SER=volser
//SYSIN   DD DUMMY
```



## C. *Resource management parameters*

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During installation, your systems programmer specifies values for initialization and printer profile parameters. Initialization parameters and their values are stored in members XINSXOAF and XINSXOSF of XINPARM. The printer profile for each XPAF printer is stored in the library referenced by the PROFDD initialization parameter in XINSXOSF.

This appendix contains a table for each of these resource types:

- Fonts
- Forms
- Images
- Logos
- Resource lists
- PDL
- Page formats
- Paper-related tables
- Color cross-reference and color conversion tables

Each table identifies the parameters whose values you will need to know before you can manage that resource type. Use these tables to record your site's value for each parameter.

## Parameters related to font resource management

Parameter	Type	Function	Default	Your site's value
AUTOREV	Initialization and printer profile	Specifies whether to download fonts automatically from the Xerox native font library that are newer than the same font on the printer.	<ul style="list-style-type: none"> <li>At initialization level: NONE</li> <li>At printer profile level: AUTOREV initialization parameter value</li> </ul>	
CFONTLIB	Initialization	Identifies the DD statement that specifies the system-wide centralized font library	CFONTLIB	
DELFONT	Printer profile	Indicates whether to delete downloaded fonts from the centralized printer after the document has been printed	NO	
DFONTLIB	Initialization	Identifies the DD statement that specifies the system-wide decentralized font library	DFONTLIB	
FNTTBLDD	Initialization	Identifies the DD statement that specifies the native library containing the XPAF font tables	TABLELIB	
FONTLIB	Printer profile	Identifies the DD statement that specifies the primary native font library for a printer	<ul style="list-style-type: none"> <li>For centralized printers: CFONTLIB initialization parameter value</li> <li>For decentralized and PCL-capable printers: DFONTLIB initialization parameter value</li> </ul>	
IBMFONTDD	Initialization	Identifies the DD statement that specifies the IBM font library for AFP processing	IBMFONT	

Parameter	Type	Function	Default	Your site's value
PFONTLIB	Initialization and printer profile	Identifies the DD statement that specifies the library in which fonts that have been converted dynamically to PCL format will be stored.	<ul style="list-style-type: none"> <li>At initialization level: PFONTLIB</li> <li>At printer profile level: PFONTLIB initialization parameter value</li> </ul>	
SFONTLIB	Printer profile	Identifies the DD statement that specifies the secondary (centralized) font library to be searched to obtain font metric information	CFONTLIB initialization parameter value	

## Parameters related to form resource management

Parameter	Type	Function	Default	Your site's value
AUTOREV	Initialization and printer profile	<p>For non-AFP resources, indicates whether to force a resource download if the most current resource is in the XPAF native resource library and not on the printer.</p> <p>For AFP resources, indicates whether to force a resource conversion and download if the most current resource is in the AFP resource library and not in the XPAF resource library.</p>	<ul style="list-style-type: none"> <li>At initialization level: NONE</li> <li>At printer profile level: AUTOREV initialization parameter value</li> </ul>	
CFORMLIB	Initialization	Identifies the DD statement that specifies the system-wide centralized form library	CFORMLIB	
DELFORM	Printer profile	Indicates whether to delete downloaded forms from the centralized printer after the document has been printed	NO	
DFORMLIB	Initialization	Identifies the DD statement that specifies the system-wide decentralized form library	DFORMLIB	
FORMLIB	Printer profile	Identifies the DD statement that specifies the primary native form library for a printer	<ul style="list-style-type: none"> <li>For centralized printers: CFORMLIB initialization parameter value</li> <li>For decentralized and PCL-capable printers: DFORMLIB initialization parameter value</li> </ul>	

Parameter	Type	Function	Default	Your site's value
MERGEVL	Initialization and printer profile	Indicates whether overlays will be consolidated	<ul style="list-style-type: none"> <li>At initialization level: None</li> <li>At printer profile level: MERGEVL initialization parameter value</li> </ul>	
NOSTORE	Initialization and printer profile	Indicates whether to store AFP resources in native centralized libraries	N (for No)	
OVERLAYDD	Initialization	Identifies the DD statement that specifies the overlay library for AFP processing	OVERLIB	
PFORMLIB	Initialization and printer profile	Identifies the DD statement that specifies the library in which forms that have been converted dynamically to PCL format will be stored	<ul style="list-style-type: none"> <li>At initialization level: PFORMLIB</li> <li>At printer profile level: PFORMLIB initialization parameter value</li> </ul>	
SFORMLIB	Printer profile	Identifies the DD statement that specifies the secondary (centralized) form library to be searched if a decentralized form cannot be found in the decentralized form library	CFORMLIB initialization parameter value	
UNIQNAME	Initialization and printer profile	Specifies whether a unique 6-character suffix is generated for a converted overlay	<ul style="list-style-type: none"> <li>At initialization level: N (for No)</li> <li>At printer profile level: UNIQNAME initialization parameter value</li> </ul>	

## Parameters related to image resource management

Parameter	Type	Function	Default	Your site's value
AUTOREV	Initialization and printer profile	For non-AFP resources, indicates whether to force a resource download if the most current resource is in the XPAF native resource library and not on the printer.  For AFP resources, indicates whether to force a resource conversion and download if the most current resource is in the AFP resource library and not in the XPAF resource library.	<ul style="list-style-type: none"> <li>At initialization level: NONE</li> <li>At printer profile level: AUTOREV initialization parameter value</li> </ul>	
CIMAGELIB	Initialization	Identifies the DD statement that specifies the system-wide centralized image library	CIMGLIB	
DELIMAGE	Printer profile	Indicates whether to delete downloaded images from the centralized printer after the document has been printed	NO	
DIMAGELIB	Initialization	Identifies the DD statement that specifies the system-wide decentralized image library	DIMGLIB	
IMAGELIB	Printer profile	Identifies the DD statement that specifies the primary native image library a printer	<ul style="list-style-type: none"> <li>For centralized printers: CIMAGELIB initialization parameter value</li> <li>For decentralized and PCL-capable printers: DIMAGELIB initialization parameter value</li> </ul>	
NOSTORE	Initialization and printer profile	Indicates whether to store AFP resources in native centralized libraries	N (for No)	

Parameter	Type	Function	Default	Your site's value
PAGESEGDD	Initialization	Identifies the DD statement that specifies the page segment library for AFP processing	PSEGLIB	
PIMAGELIB	Initialization and printer profile	Identifies the DD statement that specifies the library in which images that have been converted dynamically to PCL format will be stored	<ul style="list-style-type: none"> <li>At initialization level: PIMGLIB</li> <li>At printer profile level: PIMAGELIB initialization parameter value</li> </ul>	
PRINTENV	Initialization	Determines how XPAF dynamically converts AFP images colorized via the IID structured field for printing on a centralized printer	MONO	
SIMAGELIB	Printer profile	Identifies the DD statement that specifies the secondary (centralized) image library to be searched if a decentralized image cannot be found in the decentralized image library	CIMAGELIB initialization parameter value	

## Parameters related to logo resource management

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Parameter	Type	Function	Default	Your site's value
AUTOREV	Initialization and printer profile	Specifies whether to download logos automatically from the Xerox native logo library that are newer than the same logo on the printer.	<ul style="list-style-type: none"> <li>At initialization level: NONE</li> <li>At printer profile level: AUTOREV initialization parameter value</li> </ul>	
CLOGOLIB	Initialization	Identifies the DD statement that specifies the system-wide native logo library	CLOGOLIB	
DELLOGO	Printer profile	Indicates whether to delete downloaded images from the centralized printer after the document has been printed	NO	
LOGOLIB	Printer profile	Identifies the DD statement that specifies the native logo library for a printer	CLOGOLIB initialization parameter value	

## Parameters related to list resource management

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Parameter	Type	Function	Default	Your site's value
FEATURE	Printer profile	Identifies whether the printer can store downloaded resources through the FILEKEEP/ NOFILEKEEP setting	Depends on the printer model	
FONTLIST	Printer profile	Identifies the resident font list for the printer	None	
FORMLIST	Printer profile	Identifies the resident form list for the printer	None	
IMAGELIST	Printer profile	Identifies the resident image list for the printer	None	
LIBRARY	Printer profile	Identifies the DD statement that specifies the native library for resident font, form, image and logo lists for a printer	None	
LOGOLIST	Printer profile	Identifies the resident logo list for the printer	None	
XNS	Printer profile	Identifies whether the printer can support two-way communication with XPAF	Depends on the printer type	

## *Parameters related to PDL resource management*

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Parameter	Type	Function	Default	Your site's value
PDLLIB	Initialization and printer profile	Identifies the DD statement that specifies the native library used when processing DJDE documents	<ul style="list-style-type: none"> <li>At initialization level: PDLLIB</li> <li>At printer profile level: PDLLIB initialization parameter value</li> </ul>	

## *Parameters related to page format resource management*

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Parameter	Type	Function	Default	Your site's value
PAGEFORMLIB	Printer profile	Identifies the DD statement that specifies the dataset containing page formats	PGFRMDD initialization parameter value	
PGFRMDD	Initialization	Identifies the DD statement that specifies the dataset containing page formats	PAGEFORM	

## Parameters related to paper-related tables

Parameter	Type	Function	Default	Your site's value
CLUSTRTB	Printer profile	Identifies the cluster mapping table used to map a centralized paper tray cluster name to a paper tray on a decentralized or PCL-capable printer	DEFAULTxxxx, where xxxx is the printer model. For NPS printers, DEFAULTDPNP.	
PAPERSIZ	Initialization and printer profile	Specifies the default paper size	<ul style="list-style-type: none"> <li>At initialization level: LETTER</li> <li>At printer profile level: PAPERSIZ initialization parameter value</li> </ul>	
PAPNAMTB	Initialization and printer profile	Identifies the paper name table used to determine the physical page size dimensions that correlate to a specified paper name	<ul style="list-style-type: none"> <li>At initialization level: DEFAULT</li> <li>At printer profile level: PAPNAMTB initialization parameter value</li> </ul>	
PAPTBLDD	Initialization and printer profile	Identifies the DD statement that specifies the library where the paper-related tables are stored	<ul style="list-style-type: none"> <li>At initialization level: TABLELIB</li> <li>At printer profile level: PAPTBLDD initialization parameter value</li> </ul>	
VARPAPT	Initialization and printer profile	Identifies the varying paper size tables used to determine the physical paper size that corresponds to the AFP bin number for the current printer	None	

## *Parameters related to color cross-reference tables and color conversion table*

Parameter	Type	Function	Default	Your site's value
INKXLIB	Initialization and printer profile	Identifies the DD statement that specifies the native library that contains the color cross-reference tables and the color conversion table	<ul style="list-style-type: none"> <li>At initialization level: TABLELIB</li> <li>At printer profile level: INKXLIB initialization parameter value</li> </ul>	
INKXREF	Initialization and printer profile	Identifies the default color cross-reference table	<ul style="list-style-type: none"> <li>At initialization level: None</li> <li>At printer profile level: INKXREF initialization parameter value</li> </ul>	

# *Section Ten: Glossary*

This section contains a list of glossary terms and abbreviations found in the XPAF documentation.





# Glossary

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## Numerics

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**2700 font format** — A standard font format that is used for Xerox decentralized fonts.

**4-word FST font format** — A standard font format that is used for Xerox centralized fonts. This format is based on the 4-word File Specification Table.

## A

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**ABIC** — Algorithm Bilevel Q-Coder

**ACB** — Access Control Block

**Advanced Function Printing (AFP)** — An IBM family of software products that enables you to place text and images at any point on a page.

**AEG** — Active Environment Group

**AFP** — See *Advanced Function Printing*.

**AFP bin number** — The medium source drawer value as specified in the MMC structured field of the form definition.

**AFW** — ASCII fonts width

**all-points addressability (APA)** — The ability to print text and images at any point on the page within the resolution of the printer (for example, 300 dots per inch) and the printable area of the page.

**American Standard Code for Information Interchange (ASCII)** — A code for representing alphanumeric information. ASCII values are used in conjunction with character identifiers in XPAF centralized and decentralized character mapping tables. XPAF uses two hexadecimal digits to represent the location of the character in the centralized or decentralized font.

**ANSI** — American National Standards Institute

**APA** — See *all-points addressability*.

**APAR** — See *Authorized Program Analysis Report*.

**APDL** — Active Printer Device List

**APF** — Authorized Program Facility

**API** — Application programming interface

**Application programming interface** — The interface by which an application program accesses the operating system and other services.

**Application socket** — See *Direct socket*.

**ASA** — American Standards Association

**ASCII** — See *American Standard Code for Information Interchange*.

**ASCII font widths table (XPAFAFW)** — An XPAF font table that contains the widths of each physical character for a replica font. It is used to correct the positioning of characters when converting character placements from 240 to 300 dpi.

**ASCII-to-ASCII table (XPAFA2A)** — An XPAF font table that links the character mapping of the centralized version of the font to the character mapping of the decentralized version of the font. This table is used when printing centralized (DJDE) documents on decentralized printers to determine where a character is mapped within the decentralized version of the font being used.

**Authorized Program Analysis Report (APAR)** — A field-test ready patch or module replacement which resolves a specific customer problem.

## B

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**backspacing** — A capability whereby the console operator initiates backspacing using standard JES2 or JES3 printer commands. For line-mode, DJDE, XES, page-formatted, and AFP documents sent to centralized, decentralized, and PCL-capable printers, the printer backspaces to a specified page number from the current point of printing.

**banner page** — A page issued with a print job that contains certain job information, including but not limited to, the user ID, job ID, and print date. The banner page can be issued as a header page before each print job, as a trailer page after each print job, or as a separator page between each dataset. Also known as a separator page.

**BASE300** — IBM AFP 300 dpi resolution raster fonts supplied as newly developed raster patterns.

**baseline** — An imaginary line on which the base of each successive character is placed.

**bin number** — The medium source drawer value as specified in the MMC structured field of the form definition.

**bitmapped format fonts** — A font for which each character is made up of a raster pattern.

**BLDL** — build list

**BLKSIZE** — block size

**BOF** — bottom of form

**BPAM** — Basic Partitioned Access Method

## C

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**cataloged member** — Cataloged member files and JSL files are the two file formats that are valid for PDL. CMEs and PDEs are the two most common types of cataloged members. See *copy modification entry* and *page description entry*.

**CCITT** — Consultive Committee for International Telegraph and Telephone

**CCMV** — Centralized character mapping table. See *character mapping table*.

**CCW** — channel command word

**centralized printer** — A high-volume printer that is generally channel-attached, but sometimes is remotely-attached to the host. These printers are used to print LCDS data streams. Centralized printers include these models: 9790, 9700, 8790, 8700, DocuPrint 4890 LPS, DocuPrint 4850 LPS, DocuPrint 4650 LPS, DocuPrint 4635 LPS, DocuPrint 4635MX LPS, DocuPrint 4235 LPS (XPPM mode), DocuPrint 4135 LPS, DocuPrint 4090 LPS, DocuPrint 4050 LPS, DocuPrint 180 EPS, DocuPrint 180 LPS, DocuPrint 96 LPS, and DocuPrint 92C LPS.

**CFC** — constant forms control

**CFI** — The coded font index structured field within an IBM coded font.

**channel-attached** — The direct attachment of devices by input/output channels to a host computer.

**character identifier (CHARID)** — A unique eight-character name that identifies a single character.

**character mapping table** — An XPAF font table that contains mapping information for fonts within a font mapping variation. The table relates a character identifier to a location within a font, usually in ASCII or EBCDIC representation.

**character set** — A set of character identifiers and their related raster patterns that make up an IBM font.

**CHARID** — See *character identifier*.

**checkpoint restart** — A capability whereby checks are taken at predefined intervals (for example, every 100 pages, or every 2 minutes) during transmission of a data stream. In the event of a system crash or a transmission failure, data transmission is resumed from the point at which the last check was taken.

**CISZ** — control interval size

**CLPA** — Clear Link Pack Area

**cluster mapping table** — An XPAF table, modifiable through XOAF, that maps a centralized paper tray cluster name to a paper tray on a decentralized or PCL-capable printer.

**CM** — Communications Module

**CMD** — command

**CME** — See *copy modification entry*.

**code page** — An IBM translate table that maps an EBCDIC code point to a character identifier.

**code page global identifier** — A unique code page identifier that is specified within the global resource identifier (GRID) value found in an MCF-2 structured field.

**code page global identifier table (CPGID)** —

An XPAF font table that contains the graphic character set global identifier and code page global identifier values for every IBM code page member found in your IBM font library when an XPAF IBM font table update option is run. XPAF uses this table when processing an MCF-2 structured field GRID value to determine the character set and code page for the font being processed.

**code point** — The location of a specific character within a font, usually represented as a 2-digit hexadecimal ASCII or EBCDIC value.

**coded font** — A character set/code page pair.

**coded font name table (XPAFCFN)** — An XPAF font table that links an IBM coded font with a code page and character set.

**color conversion table** — The table that contains the ink color-to-RGB value translations for the 4700 printer. Whenever changes are made to this table, it must be reloaded using either the XOAF Maintain the Color Conversion Table option on the Manage Tables menu or the LOAD INKS TSO/batch command.

**color cross-reference table** — A table that defines ink color substitutions for a document to a 4850 or 4890 printer. Use the XOAF Maintain Color Cross-Reference Tables option on the Manage Tables menu to create, update, or delete color cross-reference tables.

**color image** — An image that includes one or more colors, except black.

**composed text** — Data that has been formatted into discrete pages for printing.

**connection** — A communication path between XPAF and a server.

**conversation** — An exchange of information between XPAF and a server. A job transmission from XPAF to a server is an example of a conversation.

**copy modification (COPYMOD)** — A set of parameters contained in a page format that defines how formatting changes from one set of copies to the next.

**copy modification entry (CME)** — A set of statements that modify the output printing characteristics of a report on a copy-to-copy basis. A CME can be a cataloged member, which is one of the valid formats for PDL.

**COPYMOD** — See *copy modification*.

**CPC** — The Code Page Control structured field within an IBM code page.

**CPGID** — See *code page global identifier table*.

**CPI** — The code page index structured field within an IBM code page.

**CPU** — central processing unit

**CSA** — Common Storage Area

**CSI** — Consolidated Software Inventory

**CSN** — character set name

**cut sheet** — The use of single, unconnected sheets of paper or other printing media in laser printers.

## D

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**DASD** — Direct Access Storage Device

**DCB** — Data Control Block

**DCF** — See *Document Composition Facility*.

**DCMV** — Decentralized character mapping table. See *character mapping table*.

**DD** — Data Definition

**DDI** — Dynamic Document Interface

**DDN** — Data Definition Name

**DDNAME** — Data Definition Name

**decentralized printer** — A low-volume printer that is generally remotely-attached to the host. These printers are used to print XES data streams. Decentralized printers include these models: 4700 II, 4213 II, 4197 MICR, 4045, 4030 II, 3700, and DocuPrint 4235 LPS.

**DEG** — Document Environment Group

**desixelize** — The process of converting a resource from sixelized format to a raster bit pattern.

**DFA** — See *Document Finishing Architecture*.

**DFP** — Data Facility Product

**Direct connect** — See *Direct socket*.

**Direct LPR** — A communication link using the LPR/LPD protocol to send data to an LPD server.

**Direct socket** — A direct communication link to an IP address.

**distribution keyword** — The IBM JCL keywords ADDRESS, BUILDING, DEPT, NAME, ROOM, and TITLE used for banner pages.

**DJDE** — See *dynamic job descriptor entry*.

**Document Composition Facility (DCF)** — An IBM software product that provides text formatting capabilities using SCRIPT/VS and the Generalized Markup Language (GML).

**Document Finishing Architecture (DFA)** — An interface that is available on some centralized printers. This interface enables the centralized printer to send a signal to third-party finishing equipment to begin a specific operation (for example, perforate) with the current sheet entering the finisher and continue until the signal is removed.

**document switch processing** — The process by which a printer switches from one document processing mode (for example, XES) to another, such as PCL. This processing is activated by the mode change key (MCK) command within a data stream.

**dots per inch** — The resolution of a resource or a page.

**dpi** — See *dots per inch*.

**DSC** — data stream compatibility

**DSN** — dataset name

**DSNAME** — dataset name

**DSORG** — dataset organization

**duplex** — A page that contains printing on both sides of the paper.

**dynamic job descriptor entry (DJDE)** — A Xerox control statement within a document that dynamically overrides or changes existing control statements or parameters which specify how a document should be printed on a Xerox printer. These specifications include forms and image merging, font selection, bin switching, report offsetting, and file downloading.

## E

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**EBCDIC** — See *Extended Binary Coded Decimal Interchange Code*.

**EBCDIC font widths table (XPAFEFW)** — An XPAF font table that contains the Xerox font widths rearranged into EBCDIC format for a given IBM character set.

**EBCDIC-to-ASCII table (XPAFE2A)** — An XPAF font table that translates EBCDIC values for IBM code pages to ASCII values for Xerox and replica fonts.

**EC** — error code

**ECB** — Error Control Block

**EI** — Environmental Intermedium

**electronic printing system (EPS)** — See *laser printing system*.

**endpoint** — See *IP address*.

**EOF** — end of file

**EPS** — See *electronic printing system*.

**Extended Binary Coded Decimal Interchange Code (EBCDIC)** — A code for representing alphanumeric information. EBCDIC values are used in conjunction with character identifiers in Xerox code page tables. XPAF uses two hexadecimal digits to represent the location of the character in the Xerox code page.

## F

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**FB** — fixed blocked

**FBA** — Fixed Block ANSI

**FBM** — Fixed Block Machine

**FCB** — Forms Control Buffer

**FDL** — See *forms description language*.

**FEP** — Front-end processing

**FGID** — See *font global identifier table*.

**fixed metrics** — The graphic character measurements, in physical units, such as dots or inches.

**FLCA** — Free Library Control Area

**FND** — The font descriptor structured field within an IBM font character set.

**FNI** — The font index structured field within an IBM font character set.

**FNO** — The font orientation structured field within an IBM font character set.

**.FNT** — A file format used for Xerox centralized fonts.

**font** — A set of printing characters that have common characteristics such as style, width, height, and weight.

**font family information table (XPAFFFI)** — An XPAF font table that supports the use of Xerox centralized fonts in IBM DCF.

**font global identifier** — A unique font identifier that is specified within the global resource identifier (GRID) value found in an MCF-2 structured field.

**font global identifier table (FGID)** — An XPAF font table that contains the font global identifier and width of the space character for every IBM character set found in your IBM font library when an XPAF IBM font table update option is run. XPAF uses this table when processing an MCF-2 structured field GRID value to determine the character set for the font being processed.

**font index** — A character string in an input data stream that identifies the font to be used to print a line of data. A font index is used in conjunction with a font list which matches the font index value to a specific font. See *font list*.

**font list** — A list of font names identifying the fonts that are resident on a printer.

Additionally, in a page format, a font list is a list of fonts and their associated font index values. See *font index*.

**form** — An electronically composed arrangement of predefined lines, boxes, text, logos, and embedded text that may be printed as is or merged with data during the printing process. This term is used to indicate either a Xerox centralized resource stored in .FRM file format or a Xerox decentralized resource stored in XES or XPAF-internal file format.

**form definition (FORMDEF)** — An AFP resource that defines the format of the physical page.

**form list** — A list of form names identifying the forms that are resident on a printer.

**FORMDEF** — See *form definition*.

**forms description language (FDL)** — A printer-resident source language used to design electronic forms. See *forms source language* and *.FRM*.

**forms source language (FSL)** — An uncompiled collection of user-created files containing FDL commands. See *forms description language* and *.FRM*.

**forward spacing** — A capability whereby the console operator initiates forward spacing using standard JES2 or JES3 printer commands. For line-mode, DJDE, XES, page-formatted, and AFP documents sent to centralized, decentralized, and PCL-capable printers, the printer forward spaces to a specified page number from the current point of printing.

**.FRM** — A compiled forms source language (FSL) file

**FROM240** — IBM AFP 300 dpi resolution raster fonts converted from an original resolution of 240 dpi.

**FSA** — See *functional subsystem application*.

**FSI** — Functional Subsystem Interface

**FSL** — See *forms source language*.

**FSS** — See *functional subsystem*.

**FST** — Font Specification Table

**functional subsystem (FSS)** — An address space that communicates with JES to drive devices unsupported by JES.

**functional subsystem application (FSA)** — An application running within a functional subsystem.

## G

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**GDDM** — See *Graphical Data Display Manager*.

**GDG** — generation data group

**GHO** — See *Graphics Handling Option*.

**global resource identifier (GRID)** — An 8-byte external name found in the Fully Qualified Name triplet of an MCF-2 structured field. A global resource identifier is composed of the following values:

- graphic character set global identifier
- code page global identifier
- font global identifier
- width of the space character in 1/1440 inch units

**Global Resource Serialization (GRS)** — An MVS component that provides resource protection in situations where resources are shared among multiple operating systems.

**GML** — Generalized Markup Language

**graphic** — See *image*.

A vector graphics language for printers.

**graphic character set global identifier** — An identifier that is specified within the global resource identifier (GRID) value found in an MCF-2 structured field.

**Graphical Data Display Manager (GDDM)** —

An IBM software product that enables you to create images and convert them into a format that can be integrated with text, data, and forms.

**Graphics Handling Option (GHO)** — A Xerox printer option product that enables a centralized printer to store, merge, and print compressed images.

**Graphics Video Generator (GVG)** — A Xerox printer option that enables you to print 300/600 dpi images in text documents using a 4650 printer.

**GRID** — See *global resource identifier*.

**GRS** — See *Global Resource Serialization*.

**GVG** — See *Graphics Video Generator*.

**GVGII** — Graphics Video Generator II

## H

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**HCCT** — HASP Communication Control Table

**HCF** — high capacity feeder

**HDC** — See *host distributed communications*.

**Hewlett Packard graphics language (HPGL)** — A vector graphics language for printers.

**HFDL** — See *Host Forms Description Language*.

**High Performance Image Printing (HPIP)** — A PC-resident software product that provides enhanced printing capabilities for image-intensive data streams. HPIP works in conjunction with XPAF and the DDI for printing on a Xerox laser printer.

**highlight color** — The use of solid (spot) color to accentuate or contrast material from monochromatic (usually black) printed areas. The term highlight color is used by Xerox to mean printing with black plus one color.

**HIP** — Host Interface Processor

**HLQ** — high-level qualifier

**host distributed communications (HDC)** —

The XPAF client services communications component which provides the LU 6.2 interface.

**Host Forms Description Language (HFDL)** —

The Xerox host implementation of forms description language. See *forms description language*.

**HPGL** — See *Hewlett Packard graphics language*.

**HPIP** — See *High Performance Image Printing*.

**HPNS** — High Performance Native Sockets

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**I/O** — input/output

**I/R** — intervention required

**IBM font widths table (XPAFIFW)** — An XPAF font table that contains the width of each IBM character in an IBM character set/code page pair. It is used to calculate the intended width of a text string in an AFP document.

**IBM-to-IBM table (XPAFI2I)** — An XPAF font table that contains an entry for every IBM character set distributed with XPAF. This table allows the IBM character sets to be renamed without having to create new IBM-to-Xerox (XPAFI2X) table entries.

**IBM-to-Xerox table (XPAFI2X)** — An XPAF font table that identifies the Xerox fonts needed to replicate the fonts represented by an IBM character set.

**IC** — information code

**ICC** — Image Compression Code

**ICP** — Image Cell Position

**IDCAMS** — A VSAM file utility which reads control statements and performs dataset functions.

**IDM** — Invoke Data Map

**IDR** — see *ink descriptor*.

**IDX** — index

**IID** — See *Input Image Descriptor*.

**IM image** — One of two image object formats used in the AFP data stream. An IM image is device-dependent and uses pel-to-pel mapping for presentation. Contrast with *IO image*.

**image** — A resource that contains visual data such as a picture, map, or graph. For a Xerox resource, this term and *graphic* are used interchangeably to indicate either a centralized resource stored in .IMG file format or a decentralized resource stored in sixelized or .IMG file format. For an IBM resource, this term indicates an image referenced in an AFP data stream.

**image dimension** — The uncompressed size of an image. This size is relative to its origin in terms of positive x and y coordinates. The image dimension is expressed as the number of pels or dots in each direction based on the resolution of the image.

**image list** — A list of image names identifying the images that are resident on a printer.

**Image Object Content Architecture (IOCA)** —

IBM's device-independent architecture for processing images. IOCA defines images and image attributes in a manner that can be interpreted uniformly by a variety of devices and software applications.

**image position** — The origin of an image relative to the page or resource origin. The origin is specified in terms of positive x and y coordinates. The image position is expressed as the number of pels or dots in each direction based on the resolution of the image.

**.IMG** — A file format used for Xerox centralized images.

**IMM** — Invoke Medium Map

**initialization parameters** — A set of predefined values that are supplied with XPAF. These values specify XPAF information required by MVS, JES information required by XPAF, DD statement names, DJDE formats and defaults, and other processing options.

**ink descriptor** — A set of statements that defines the ink catalog, palette, and ink list used for a report. An IDR can be a cataloged member, which is one of the valid formats for PDL.

**ink source language (ISL)** — A printer-based keyword language used to define the multi-level hierarchy of inks that are available on a printer.

**Input Image Descriptor (IID)** — An IBM structured field containing the color code value of an AFP IM-type image object.

**installation service macros (ISM)** — A set of macros that are used to install XPAF, resources, usermods, user exits, and maintenance software.

**installation verification procedure (IVP)** — A series of jobs that are run after product software installation that validate product functionality.

**interface device** — A communication module, interface controller, printer adapter, or protocol converter which allows connectivity between the XPAF host system and remotely-attached printers.

**interleaved** — Refers to the format of a two-color RES .IMG file, whereby each color is represented by alternate bits in the raster data.

**interpress** — A Xerox high level printer command language.

**IO image** — One of two image object formats used in the AFP data stream. An IO image is device-independent and supports image compression on input, scaling, and data parameters for presentation. Contrast with *IM image*.

**IOCA** — See *Image Object Content Architecture*.

**IOCP** — Input/Output Control Program

**IOE** — Input/Output Error

**IP** — Internet Protocol

**IP address** — The host address defined by the Internet Protocol usually represented in dotted decimal notation.

**IP direct** — See *Direct socket*.

**IPDFLT table** — An XPAF font table that contains the default version of the IPSTND table.

**IPL** — Initial Program Load

**IPS** — Include Page Segment

**IPSTND table** — An XPAF font table that defines all the characters for all the IBM fonts which are supported by replica fonts. For each character, this table identifies the character identifier value, plane number, and the ASCII location within the plane.

**IRD** — Image Raster Data

**ISL** — See *ink source language*.

**ISM** — See *installation service macros*.

**ISO6937** — The international standard that specifies graphic characters and control functions, and their coded representations, for use in text communications.

**ISO8859-1** — The mapping format XPAF uses to place characters into centralized and decentralized fonts. Based on ISO8859 standards, it includes some box characters in the unused slots to extend plane 1 functionality.

**ISPF** — Interactive System Productivity Facility

**IVP** — See *installation verification procedure*.

## J

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**JCL** — Job Control Language

**JDE** — See *job descriptor entry*.

**JDL** — See *job descriptor library*.

**JDT** — JCL Descriptor Table

**JES** — Job Entry Subsystem

**job descriptor entry (JDE)** — A printer-resident command set that groups all the processing parameters for one print job or a group of print jobs which share print characteristics. Several JDEs make up a JDL.

**job descriptor library (JDL)** — An object or compiled file of PDL commands.

**job source library (JSL)** — JSL files and cataloged member files are the two file formats that are valid for PDL. A JSL file begins with a JDL command, includes system, catalog, and job level commands, and ends with an END command.

**job ticket** — A set of commands that specifies the printing, finishing, and job management requirements of a print job. Used by NPS and DocuSP printers.

**JPEG** — Joint Photographic Experts Group

**JSL** — See *job source library*.—

## L

**LAN** — Local Area Network

**landscape** — The orientation of print lines or the top of an illustration parallel to the long edge of the paper.

**laser printing system (LPS)** — A printer that uses laser technology to transfer characters and images onto a page. Also known as an electronic printing system (EPS).

**LCA** — Library Control Area

**LCAERRCD** — Library Control Area Error Code

**LCC** — Line Control Code

**LCDS** — laser-conditioned data stream

**LDM** — Library Data Manager (XPAF component)

**LDT** — logical device table

**.LGO** — A file format used for Xerox centralized logos.

**LIB** — see *short-edge-feed MAP*

**library** — Defined areas internal and external to a software product that are used to store resources, files, and programs.

**licensed font** — A font for which you are required to pay royalties to a vendor depending on usage. You can use licensed fonts with XPAF and Xerox printers in accordance with the font licensor's shrink-wrap license agreement or executable license agreement which accompanies all licensed font products.



**CAUTION:** Printing with a licensed font to a non-Xerox printer may violate your licensing agreement.

**line group** — A group of lines on a page that are formatted identically. A line group is sometimes called a subpage.

**line-mode documents** — Documents with no formatting instructions except for carriage control characters.

**LLA** — library lookaside

**logical page** — The area of the physical page on which data can be printed.

**logical unit (LU)** — Also known as LU, a network accessible unit which gives users access to network resources and allows them to communicate with each other.

**logical unit (LU) 6.2** — Also known as LU 6.2, a type of logical unit which is characterized by a peer relationship between session partners. LU 6.2 allows for efficiency in multiple-transaction sessions.

**logical units (L-units)** — Also known as L-units, a unit of linear measurement used by printer data streams. This value is expressed as the inverse of the resolution. In AFP data streams, for example, in a 240 dpi resolution document, one L-unit is equal to 1/240th of an inch; in a 300 dpi resolution document, one L-unit is equal to 1/300th of an inch.

**logo** — A resource that contains an identifying graphical symbol such as a trademarked company or product name. This term is used to indicate a Xerox centralized resource stored in .LGO file format.

**LPA** — Link Pack Area

**LPD** — Line Printer Daemon

**LPI** — lines per inch

**LPR** — Line Printer Requester

**LPS** — See *laser printing system*.

**LRECL** — logical record length

**LSQA** — Local System Queue Area

**LU or LU 6.2** — See *logical unit* (hardware unit).

**L-units** — See *logical units* (software unit).

## M

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**macro** — A programming instruction that expands into multiple commands. Macros can be interpreted individually, or they can be nested within other macros, each of which can be expanded into individual commands.

**MAS** — Multi Access Spool

**MCC** — Medium Copy Count

**MCF** — Map Coded Font

**MCF-2** — The structured field identifier for IBM's Map Coded Font format 2.

**MCK** — See *mode change key*.

**MCS** — Modification Control Statements

**MDD** — Medium Descriptor

**medium source drawer** — The IBM term for a paper tray.

**Metacode** — A Xerox-generated data stream that provides all-points addressability on centralized printers.

**MICR** — Magnetic Ink Character Recognition

**MixedObjectDocumentContentArchitecture (MO:DCA)** — An architected device-independent data stream for interchanging documents.

**MLPA** — Modifiable Link Pack Area

**MMC** — Medium Modification Control

**MO:DCA** — See *Mixed Object Document Content Architecture*.

**mode change key (MCK)** — A code key that indicates whether the printer device supports *document switch processing*.

**monochrome black .IMG** — An image in standard .IMG format that represents only black dots.

**monochrome RES .IMG** — An image in RES format that contains one color (either black or another color).

**MRP** — mid-range printer

**MSF** — Message Service Facility (XPAF component)

**MSFTBLD** — Message Service Facility Table Build

**MSG** — message

**MVS/ESA** — Multiple Virtual Storage/Enterprise Systems Architecture

## N

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**named fonts** — Printer-resident PCL fonts stored on, and read from, the printer's hard drive.

**national character set** — Characters and symbols that are specific to a national language.

**native library** — A VSAM dataset used by XPAF to store resources.

**native mode** — A data stream submitted through XPAF that already is in a format recognized by Xerox laser printers. XPAF does not have to perform any conversions; however, it will condition the data stream if needed. A DJDE data stream being printed on a centralized printer is a native mode data stream.

**native resource** — The fonts, forms, images, or logos which are in a format recognized by Xerox laser printers. A native resource can be stored either on the printer, stored in a library on the host, or referenced inline in the data stream.

**NCP** — See *Network Control Program*.

**Network Control Program (NCP)** — An IBM licensed program that provides communication controller support for single-domain, multiple-domain, and interconnected network capability.

**network printing system (NPS)** — A network-connected printer that uses laser technology to transfer characters and images onto a page.

**Network Terminal Option (NTO)** — An IBM licensed program that is used in conjunction with NCP to allow certain non-SNA devices to participate in sessions with SNA application programs in the host processor. NTO converts data sent to and from the non-SNA device to the appropriate protocol — SNA or non-SNA.

**NIC** — network interface card

**non-native mode** — A data stream submitted through XPAF that requires conversion to a format the printer can understand. An AFP data stream is a non-native data stream.

**NOP** — No Operation

**NPS** — See *network printing system*.

**NTO** — See *Network Terminal Option*.

**NTRI** — NCP/token ring interconnection

## O

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**OGL** — See *Overlay Generation Language*.

**orientation** — The direction in which text or images are positioned on the page. When text and images are positioned with the lines parallel to the shorter sides of the paper, the orientation is referred to as portrait. When the lines of text are parallel to the longer sides of the paper, the orientation is called landscape.

**OS/390** — Operating System/390

**OSS** — Operating System Software

**overlay** — An AFP resource that is equivalent to a Xerox form. See *form*.

**Overlay Generation Language (OGL)** — An IBM product which is functionally similar to the Xerox forms description language. OGL is used to create electronic forms in the IBM AFP environment.

## P

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**page definition (PAGEDEF)** — An AFP resource that specifies formatting of a print dataset into pages of data.

**page description entry (PDE)** — A set of statements that defines formatting (for example, page orientation) for each page of a report. A PDE can be a cataloged member, which is one of the valid formats for PDL.

**page format (PAGEFORM)** — A set of parameters that is used to format line-mode data streams into discrete pages.

**page layout** — A set of parameters contained in a page format that defines the layout of the logical page.

**Page Printer Formatting Aid (PPFA)** — An IBM program designed for creating page definitions and form definitions.

**page segment (PAGESEG)** — This AFP resource represents a portion of a page that may contain composed text and/or images.

**PAGEDEF** — See *page definition*.

**PAGEFORM** — See *page format*.

**PAGESEG** — See *page segment*.

**PAL** — Processor Action List

**palette** — A finite and predetermined set of colors used by color laser printers.

**paper name** — The name given to a specific paper size. For example, the paper name LETTER usually refers to a sheet of paper with the dimensions 8.5 by 11 inches. See *paper size*.

**paper name table** — An XPAF table, modifiable through XOAF, that assigns paper sizes to paper names. These paper names can be specified with the PAPERSIZ initialization or printer profile parameter or extended JCL keyword, and also correspond to the paper names in the varying paper size tables and cluster mapping tables.

**paper size** — The physical size (in width and height dimensions) of a sheet of paper. See *paper name*.

**paper tray** — The tray from which paper is pulled for printing.

**paper-related table** — A term used to describe the three types of XPAF paper-related tables: paper name table, varying paper size table, and cluster mapping table.

**pass-through processing** — A processing method which allows documents created by Xerox or non-Xerox applications to be passed directly to Xerox printers unaltered. XPAF does not verify the data stream; the data stream is neither conditioned nor converted. A PostScript data stream being printed on a PCL-capable printer is a pass-through data stream.

**PC** — personal computer

**PCL** — Printer Command Language

**PCL-capable printer** — A mid-volume printer that is generally remotely-attached to the host. These printers can print pass-through documents or documents converted to PCL format. The document types that can be printed via pass-through mode depend on the printer command language(s) supported by the printer. PCL-capable printers include these models: 4900, 4700 II, 4230 MRP, 4220 MRP, 4219 MRP, 4215 MRP, 4213 II, 4213 II, Document Centre 265LP, Document Centre 255LP, DocuPrint 4890 NPS, DocuPrint 4850 NPS, DocuPrint 4635 NPS, DocuPrint 4517, DocuPrint 4512, DocuPrint 4508, DocuPrint 4235 LPS, DocuPrint 4090 NPS, DocuPrint 4050 NPS, DocuPrint 180 EPS, DocuPrint 180 NPS, DocuPrint 96 NPS, DocuPrint 92C NPS, DocuPrint 65, DocuPrint C55, DocuPrint N40, DocuPrint N32, DocuPrint N24, DocuTech 6180, DocuTech 6155, DocuTech 6135, DocuTech 6100, Phaser 850DP, and Phaser 750DP.

**PDE** — See *page description entry*.

**PDF** — Program Development Facility

**PDIR** — peripheral device information record

**PDL** — See *print description language*.

**PDL loader** — The XOAF function which loads PDL to a native library and generates a report that consists of the contents of each newly created PDL library member. Access the PDL loader through either the XOAF Load PDL option on the Load Resources menu or the LOAD PDL TSO/batch command.

**PDS** — partitioned dataset

**PDT** — physical device table

**permanent soft fonts** — PCL fonts stored in the printer's memory. Permanent soft fonts remain in memory until the printer's power is turned off, and can be used for more than one document.

**physical page** — The sheet of paper or medium on which you are printing.

**pipeline** — A list of processes (for example, AFP-to-Metacode conversion) required to print a document on an XPAF-connected Xerox printer.

**PJL** — Printer Job Language

**plane** — When one font is split into multiple fonts, these resulting fonts are called planes. Each plane can contain up to 192 printable characters or 64K of raster data. One replica font can be split into a maximum of 16 planes, and one centralized font can be converted into a maximum of 8 decentralized planes.

**PMF** — See *Print Management Facility*.

**POF** — See *printer object file*.

**portrait** — The orientation of print lines or the top of an illustration parallel to the short edge of the paper.

**PPD** — Point Product Driver

**PPFA** — See *Page Printer Formatting Aid*.

**PPT** — Printer Profile Table (Xerox)  
Program Properties Table (IBM)

**presentation** — The orientation in which the page is presented to the printer for printing. See *landscape* and *portrait*.

**print description language (PDL)** — A language used to describe printing jobs to a laser printer. PDL describes the input (type, format, characteristics), performs the processing functions (logical processing), and describes the output (type, format, fonts selection, accounting options). PDL has two valid file formats: JSL files and cataloged member files.

**Print Management Facility (PMF)** — An IBM program that is used to create and modify print resources (for example, page definitions, form definitions, and fonts) used on IBM page printers.

**Print Services Facility (PSF)** — An IBM software product that drives all-points addressable printers.

**printer job language (PJL)** — A facility that allows specification of printer-specific commands that apply to an entire document. For PCL-capable printers only.

**printer object file (POF)** — A file that contains printer resources, such as fonts, forms, images, and logos, used for printing documents.

**printer profile** — A printer- and site-specific file that defines the printing environment to XPAF.

**Program Temporary Fix (PTF)** — A field-tested solution to a specific customer problem or set of problems.

**proportionally spaced font** — A font that contains characters that vary in width.

**PSAF** — Print Services Access Facility

**PSF** — See *Print Services Facility*.

**PTF** — See *Program Temporary Fix*.

**PTX** — presentation text

**PUT** — Program Update Table

**PVT** — Program Vector Table

## R

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**Raster Encoding Standard (RES)** — A Xerox standard format for color images printed on a highlight color printer

**.RBA** — Relative Byte Address

**RC** — return code

**RECFM** — record format

**relative metrics** — The graphic character measurements expressed as fractions of the square, called the “em-square,” whose sides correspond to the vertical size of the font. These measurements are resolution independent.

**remotely-attached** — A device that is physically connected to a host computer via a telecommunications line.

**replica font** — A Xerox font that is a reproduction of an IBM font.

**report stacking** — The separation of a set of printed output from the previous set.

**RES** — See *Raster Encoding Standard*.

**resolution** — A measure of the sharpness of a resource or a physical printer, expressed as the number of addressable dots or pels per unit of length. For example, dots per inch, pels per centimeter.

**resource** — The fonts, forms, images, or logos that are required, in addition to data, to print a document. A resource can be stored either on the printer, in a library on the host, or inline in the data stream.

structured field (IBM)

**resource conditioning** — A process performed by XPAF which ensures that all resources required to print a document are available before sending the data stream to the printer.

**RGB** — The red-green-blue color format used by decentralized color printers.

**RJE** — Remote Job Entry

**RPL** — Request Parameter List

**RTEXT** — An RTEXT definition is a set of statements used to define ink catalogs, palettes, and ink lists used in a report. A TST can be a cataloged member, which is one of the valid formats for PDL.

## S

**SCSI** — Small Computer System Interface

**SDI** — Shared Disk Interface

**SDLC** — Synchronous Data Link Control

**secondary logical unit (SLU)** — In SNA, the logical unit (LU) that contains the secondary half-session for a particular LU-LU session. An LU may contain secondary and primary half-sessions for different active LU-LU sessions.

**separator page** — See *banner page*.

**separator page first (SEPF)** — A SEPARATORS=FIRST DJDE sent by XPAF in a data stream which signals centralized printers to insert a separator as the first page of each printed output segment using this copy modification.

**SEPF** — See *separator page first*.

**SF** — See *signal function*. (Xerox)  
structured field (IBM)

**short-edge-feed MAP** — (LIB) A set of statements that defines a font substitution list to be used to print a document on large paper that is fed short edge rather than long edge. A LIB can be a cataloged member, which is one of the valid formats for PDL.

**signal function (SF)** — A DJDE sent by XPAF in a data stream which signals centralized printers to communicate with document finishing equipment provided by third-party vendors. XPAF supports signal function 1 and signal function 2 for centralized printers equipped with the Document Finishing Architecture (DFA) interface, version 4.1 or higher. Signal function 1 and signal function 2 are used individually for separate functions in the finishing equipment (for example, signal function 1 can indicate perforate, while signal function 2 can indicate punch). XPAF does not determine the function of each signal; the signal's function is defined by the third-party finishing equipment.

**SIL** — set intensive logging

**simplex** — A page that contains printing on one side of the paper.

**sixelized** — A Xerox encoded data format used for Xerox decentralized fonts and decentralized images.

**SJF** — System JCL Facility

**SLU** — See *secondary logical unit*.

**SMF** — System Management Facilities

**SMP/E** — See *System Modification Program/Extended*

**SMS** — System Managed Storage

**SNA** — System Network Architecture

**sockets** — A method for communication between a client program and a server program in a TCP/IP network. A socket is defined as "the endpoint in a connection." Sockets are created and used with a set of programming requests or function calls, sometimes called the sockets application programming interface (API).

**SRL** — Service Request List

**SSCT** — Subsystem Communication Control Table

**SSI** — Subsystem Interface

**SSN** — Subsystem Name Table

**STC** — Set Text Color

**STK** — see *stockset*

**stockset** — A set of statements that defines a set of stocks used in a report. An STK can be a cataloged member, which is one of the valid formats for PDL.

**string** — Text, usually with a length restriction, that is enclosed in single quotation marks and is meant to be processed as one entity. It can usually include special characters as well as uppercase alphanumeric characters.

**subpage** — See *line group*.

**substrate** — A physical sheet of paper.

**System Modification Program/ Extended (SMP/E)** — An IBM program product used to install and update software in an MVS environment.

## T

---

**TCB** — Task Control Block

**TCP** — Transmission Control Protocol

**TCP batch printing** — The batch implementation XPAF uses to support the various third-party TCP stacks. This implementation allows you to customize TCP support for your site.

**TDB** — Table Definition Block

**temporary soft fonts** — PCL fonts stored in the printer's memory which are deleted when the printer is reset, i.e., at the end of the document.

**THM** — Table Handling Mechanism (XPAF component)

**TIC** — Token Ring Interface Coupler

**TIFF** — Tag Image File Format

**TOF** — top of form

**track, track, record (TTR)** — The relative disk address of a member within an IBM PDS or PDS/E library. Each member in a PDS library has a unique TTR associated with it that is stored within the directory entry for that member. For PDS/E datasets, the TTR is a unique token associated with each library member. Whenever a PDS or PDS/E member is updated, the TTR value is also updated.

**transform** — The process in which XPAF converts a print data stream to a different but equivalent format suitable for the destination printer.

**translate table** — A table that translates line-mode character-set values to values that Xerox printers can understand. A translate table maps the character values in the incoming data stream to the proper values of the actual font characters that are available on the printer.

**TRC** — Table Reference Character

**triplet** — A three-part variable length IBM parameter consisting of a length byte, an identifier byte, and one or more parameter value bytes. A structured field may contain one or more triplets.

**TSO** — Terminal Sharing Option

**TST** — see *RTEXT*

**TTR** — See *track, track, record*.

**tumble duplex** — A page that contains printing on both sides of the paper, with the top of the page's front side matched to the bottom of the page's back side.

**two-color RES .IMG** — An image in RES format that contains two colors (black and one other color).

## U

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**UCS** — Universal Character Set

**UDK** — See *user-defined key*.

**UFL** — Font Loader Utility (XPAF component)

**UFT** — Font Table Utility (XPAF component)

**UIL** — Color Conversion Table Loader (XPAF component)

**UIX** — Color Cross Reference Utility (XPAF component)

**UJL** — PDL Loader (XPAF component)

**ULL** — Logo Loader (XPAF component)

**ULR** — User Library Reload Utility (XPAF component)

**unit base** — The length of the measurement base. This value identifies the unit of length used to express resolution with respect to the total number of addressable dots or pels that are represented by that distance.

**UPL** — Form And Image Loader (XPAF component)

**user exit** — A program developed by the user that acquires control at various points during processing.

**user-defined key (UDK)** — See *Xerox Escape Sequence*.

**usermod** — A system modification that allows you to make changes to certain tables used by XPAF (for example, the JES offset table).

**USS** — Unformatted System Services

**UTB** — Table Creation Utility (XPAF component)

## V

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**Variable Data Intelligent PostScript PrintWare (VIPP)** — A set of page layout functions bundled as PostScript programs. This provides an easy way to use Xerox PostScript devices in a traditional non-PostScript environment. Output, such as line-mode data produced by traditional applications, can be imaged on a Xerox PostScript printer while requiring few, if any, modifications to the applications that generate the data. For more information, refer to the *Xerox Variable Data Intelligent PostScript PrintWare (VIPP) Reference Manual*.

**varying paper size table** — An XPAF table, modifiable through XOAF, that correlates a physical paper size with an AFP bin number; for use with AFP data streams only.

**VBS** — variable blocked spanned

**VIPP** — see *Variable Data Intelligent PostScript PrintWare*

**VIPP-enabled** — A print device on which VIPP software resides. VIPP documents must be sent to a VIPP-enabled print device.

**VOLSER** — volume serial number

**VSAM** — Virtual Sequential Access Method

**VTAM** — Virtual Telecommunications Access Method

## W

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**WTO** — write to operator

## X

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**XAE** — XNS Environmental Envelope (XPAF component)

**XAM** — AFP To Metacode Transform (XPAF component)

**XAU** — AFP To XES Transform (XPAF component)

**XCC** — Centralized Printer Resource Conditioner (XPAF component)

**XCD** — DJDE to XES Transform (XPAF component)

**XCN** — Font Metrics Converter (XPAF component)

**XCO** — Xerox Coax Option

**XCTO** — Xerox Coax/Twinax Option

**XDDI** — Xerox Dynamic Document Interface

**XDI** — Distributor (XPAF component)

**XDPM** — See *Xerox Distributed Print Mode*.

**XDS** — Xerox Direct Print Services (XPAF component)

**XEI** — Environmental Intermedium (XPAF component)

**Xerox Distributed Print Mode (XDPM)** — A Xerox term that describes printing in a decentralized environment.

**Xerox Escape Sequence (XES)** — A user-defined character used in control code sequences sent to decentralized printers. Also known as user-defined key.

**Xerox font information table (XPAFXFI)** — A table containing information about Xerox fonts (for example, typeface, weight, width, point size, and print direction) and referenced by either the XPAF Convert Xerox Fonts to IBM Format option or the Load Font TSO/batch command, which makes Xerox fonts available to IBM's DCF product.

**Xerox Job Control Facility (XJCF)** — The program which modifies data streams in order to format printouts to user specifications using standard IBM JCL keywords. You may run XPAF in addition to XJCF (coexistence mode) or instead of XJCF (simulation mode).

**Xerox Network Services (XNS)** — A protocol that consists of a variety of digital processors interconnected by means of a variety of transmission media. This protocol is used by XPAF for communicating print requests from a client to a print service.

**Xerox Output Administrative Facility (XOAF)** — The XPAF subsystem used to manage the resources (for example, fonts, forms, images) required to print documents.

**Xerox Output Services Facility (XOSF)** — The XPAF subsystem that interfaces with MVS to accept documents from JES, transform them into a format suitable for the intended printer, and transmit them to the printer.

**Xerox Printer Access Facility (XPAF)** — A host-resident software product that enhances the capabilities and use of Xerox laser printers in an IBM MVS environment.

**Xerox Printing Services Client (XPSC-MVS)** — An MVS host-based software product that provides two-way communications between the host mainframe and an XPSM server using LU 6.2 communication protocol.

**Xerox Printing Services Manager for the IBM RS/6000 (XPSM)** — IBM RS/6000 resident software that communicates with clients to accept jobs for printing. This XPSM server software transmits the jobs to printers under its control.

**Xerox Production Print Mode (XPPM)** — A Xerox term that describes printing in a centralized environment.

**XES** — See *Xerox Escape Sequence*.

**XFC** — Xerox Font Converter (XPAF component)

**XFDB** — Xerox Fragment Descriptor Block

**XFI** — Xerox Font Information

**XFS** — FSA Solicitor Prefix (XPAF component)

**XFU** — Form Converter (XPAF component)

**XIN** — Initialization (XPAF component)

**XIS** — Image To Sixel Converter (XPAF component)

**XJC** — JCL To DJDE Transform (XPAF component)

**XJCF** — See *Xerox Job Control Facility*.

**XJCFSIM tables** — The tables used by XPAF in XJCF simulation mode to simulate the XJCF program.

**XJCL** — Extended Job Control Language

**XJS** — PDL Processor (XPAF component)

**XLC** — Logo Converter (XPAF component)

**XLD** — LDM Utility (XPAF component)

**XLOG** — A dataset that is used for recording messages issued by XPAF.

**XLW** — Local Writer (XPAF component)

**XMS** — Xerographic mode switching

**XNS** — See *Xerox Network Services*.

**XOA** — XOAF Superstructure (XPAF component)

**XOAF** — See *Xerox Output Administrative Facility*.

**XOAPRMS** — XOAF parameters

**XOSF** — See *Xerox Output Services Facility*.

**XPA** — Common Parsing Routines (XPAF component)

**XPAF** — See *Xerox Printer Access Facility*.

**XPAF extended JCL** — A set of JCL keywords that are unique to XPAF.

**XPAF full-client mode** — A mode providing all XPAF functions to XPSM that are relevant to these centralized printers: 4890, 4850, 4635MX, 4635, 4135, 4090, or 4050. This mode enables you to print line-mode, DJDE, page-formatted, and AFP data streams.

**XPAF-internal format** — A file format, specific to XPAF, that is used when storing AFP overlays that have been converted to forms in the decentralized form library. At print time, forms that are in XPAF-internal format are converted to XES format before being downloaded to the printer.

**XPAF-started identifier** — The DJDE identifier in the JDE/JDL that is named by any of these parameters:

- JDE printer profile parameter
- JDL printer profile parameter
- DEFJDE initialization parameter
- DEFJDL initialization parameter

**XPAFA2A** — See *ASCII-to-ASCII table*.

**XPAFAFW** — See *ASCII font widths table*.

**XPAFCFN** — See *coded font name table*.

**XPAFE2A** — See *EBCDIC-to-ASCII table*.

**XPAFEFW** — See *EBCDIC font widths table*.

**XPAFFFI** — See *font family information table*.

**XPAFI2I** — See *IBM-to-IBM table*.

**XPAFI2X** — See *IBM-to-Xerox table*.

**XPAFIFW** — See *IBM font widths table*.

**XPAFXFI** — See *Xerox font information table*.

**XPC** — Xerox Printing Control Language (XPAF component)

**XPCL** — Xerox Printing Control Language (XPAF component)

**XPFE** — Xerox Page Format Editor (XPAF component)

**XPFSAMP** — The default sample source library for XPAF.

**XPL** — Pipeline (XPAF component)

**XPPM** — See *Xerox Production Print Mode*.

**XPS** — Xerox Print Services (XPAF component)

**XPSC-compatibility mode** — A mode providing all XPSC-MVS 1.1 functions in XPAF to XPSM that are relevant to these centralized printers: 4890, 4850, 4635MX, 4635, 4135, 4090, or 4050. This mode enables you to print line-mode and DJDE data streams.

**XPSC-MVS** — See *Xerox Printing Services Client*.

**XPSM** — See *Xerox Printing Services Manager for the IBM RS/6000*.

**XRC** — Centralized Image Transform (XPAF component)

**XRD** — Decentralized Image Transform (XPAF component)

**XRF** — AFP Resource Transform (XPAF component)

**XSJ** — JCL Keyword Processor (XPAF component)

**XSL** — Solicitor Nucleus (XPAF component)

**XSTCB** — Xerox Subtask Control Block

**XTB** — Printer Table Initialization/Termination (XPAF component)



# *Section Eleven: Index*

This section provides a complete index for the XPAF documentation.





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