XPAF V6R0
Maintenance Bulletin for
Corrective Maintenance TA6350

Important Note:

With the release of XPAF 8.0 on October 28th 2016, support for XPAF 6.0 will be withdrawn on December 15th, 2016.

XPAF 7.0 will be available as a free upgrade for existing XPAF customers until December 31st, 2016.

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1. Maintenance information

This document includes information on the distributed maintenance package to assist you in running XPAF successfully. Refer to *Section Two*: *Installing and Customizing XPAF* for instructions on installing this software maintenance tape.

Bulletin description

This bulletin describes the maintenance and provides maintenance-related information.

Contents

The information contained in this bulletin applies to maintenance TA6350.

NOTE: Xerox only supports the XPAF features and functions documented in the user documentation, this maintenance bulletin and the documentation file. Do not assume support is provided if it is not explicitly documented.

Package description

This package contains all maintenance added to XPAF 6.0 since the base product release.

The corrective fixes in this maintenance package and the accompanying documentation file have been extensively integration tested.

Maintenance package TA6350 is shipped as a single SMPPTFIN file in TSO TRANSMIT format.

2. Installation instructions

This section describes the maintenance installation process.

Maintenance acceptance

To ensure the integrity of interrelated fixes, you must RECEIVE and APPLY all fixes on this tape. Ensure that any previous maintenance has been ACCEPTed before APPLYing this corrective maintenance tape.

If you experience a problem with your software, you must APPLY the entire maintenance tape before reporting the problem to Xerox Technical Support.

Maintenance instructions for SMP/E

XPAF maintenance is available on the Xerox web site at the following URL:

XPAF Support Web Site

To download the maintenance, click on the link and download the "XPAF 6.0 SMPPTFIN - TA6350" file to your PC.

This file is a .zip file that contains the SMPPTFIN file in TSO TRANSMIT format.

Unzip the downloaded file to extract the file XPAF60.TA6350.SMPPTFIN.XMT

Transfer the SMPPTFIN file to the mainframe

To transfer the SMPPTFIN file to your mainframe, perform the following steps:

Step 1.   Allocate a dataset to receive the xmt file:

```
RECFM=FB,LRECL=80   SPACE=(CYL,25,5)
```

Step 2.   Binary transfer the XPAF60.TA6350.SMPPTFIN.XMT file to the dataset created in step 1

Step 3.   Receive the dataset to rebuild the TA6350 SMPPTFIN dataset

```
 INMR901I Dataset PKG3.SMPPTFIN.XPAF60.TA6350 from MKEAN on NJEXE01
 INMR906A Enter restore parameters or 'DELETE' or 'END' +
da('mkean.xpaf60x.TA6350.smpptfin')
 INMR001I Restore successful to dataset
 'MKEAN.XPAF60X.TA6350.SMPPTFIN'
***
```

Install the maintenance

Step 4.   Update INSTLIB(GENMNT)

```
*      THIS SAMPLE GENMNT MEMBER IS SUPPLIED FOR USE AS A SKELETON
*      FOR THE USER TO COMPLETE USING THE INSTALLATION GUIDE AS A
*      REFERENCE TO THE VALUES OF MACROS AND PARAMETERS.
*
*      ********************************************************
*      * NOTE: MACRO PARAMETERS THAT HAVE DEFAULTS IF LEFT BLANK *
*      *       CONTAIN THEIR DEFAULT VALUE IN THIS SAMPLE.       *
*      ********************************************************
*
*
*********************************************************************
*                                                                   *
*      THE  #GENMNT  MACRO IS USED FOR MAINTENANCE GENERATION ONLY   *
*                                                                   *
*********************************************************************
*
        #GENMNT                                               X
            HOLDFILE=,              * USE WHEN SMPHOLD REQUIRED    X
            SMPSRCID=TA6350,        * SMP SOURCEID                 X
            EIHLQ=                  * ELECTRONIC INSTALL HLQ
*
*
*
*********************************************************************
*   THE #GENEND MACRO IS USED TO SPECIFY THE TYPE OF STAGE 2         *
*       INSTALLATION OUTPUT THAT IS TO BE GENERATED.                 *
*********************************************************************
*
        #GENEND TYPE=MNT           * TYPE OF INSTALLATION GEN
*
*
        END
```

Step 5.   Edit INSTLIB($ASMUPD) to specify "INSTYPE=$GENMNT" and submit the job

Step 6.   Edit STAGE2(MPJOB101) and change the SMPPTFIN DD card to point to the maintenance SMPPTFIN dataset created in step 3.

Step 7.   Verify and submit STAGE2(MPJOB101, MPJOB102, MPJOB103, MPJOB104, and MPJOB105)

Documentation file instructions

This section describes the documentation files for this maintenance package. The documentation file is available as a PDF file and is contained in the maintenance package zip file.

Contents

Each fix entry includes the problem description and applicable pre- and post-installation instructions. The entries are sorted by fix number.

3. Additional maintenance instructions

This section contains additional instructions for maintenance that you may need to perform.

- PROFILES
- User exits
- XDIOFTAB macros
- JDT modules in the LPA
- MVS Library Lookaside address space (for XDS) in XPAF

After you apply this tape, refer to *Section Two: Installing and Customizing XPAF* for post-installation instructions concerning these areas.

Note: There are no additional maintenance instructions with this maintenance package

Error holds

For error hold information, refer to "Step 2B - Edit $GENMNT in INSTLIB" in chapter 3 of *Section Two: Installing and Customizing XPAF*.

Note: There are no error holds with this maintenance package.

4. Technical notes

This section includes information that is not part of the standard maintenance installation process used to install a corrective maintenance tape.

IBM operating system support

XPAF supports the following versions of z/OS:

- z/OS Version 1.12 with JES2 Version 1.12 and JES3 Version 1.12
- z/OS Version 1.13 with JES2 Version 1.13 and JES3 Version 1.13
- z/OS Version 2.1 with JES2 Version 2.1 and JES3 Version 2.1
- z/OS Version 2.2 with JES2 Version 2.2 and JES3 Version 2.2

Required changes when migrating to a new OS or JES version

Have your systems programmer change the SMP/E JESMAC DDDEF entry for both the TARGET and DISTRIBUTION ZONES in the XPAF CSI to specify the new JES z/OS macro library.

Rerun UMJOB101 before running XPAF on the new system. This will re-assemble your JES offsets table.

Host maintenance requirements

Review this table to determine if you need to apply any of these IBM maintenance updates to your system.

If you use this version and subsystem:		Apply these:	
Version	Subsystem	APAR	PTF
z/OS 1.12	JES2 1.12	no additional APAR required	no additional PTF required
	JES3 1.12	no additional APAR required	no additional PTF required
z/OS 1.13	JES2 1.13	no additional APAR required	no additional PTF required
	JES3 1.13	no additional APAR required	no additional PTF required
z/OS 2.1	JES2 2.1	no additional APAR required	no additional PTF required
	JES3 2.1	no additional APAR required	no additional PTF required
z/OS 2.2	JES2 2.2	no additional APAR required	no additional PTF required
	JES3 2.2	no additional APAR required	no additional PTF required

Documentation updates

This section includes information and updates to the user documentation for one or more fixes on this tape. Please review this section to determine which updates apply to your site.

PA13116 / TA3080 – Updated printer profile parameter

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

XJCFMODE (printer profile parameter)

Description	Indicates the type of XJCF processing support required.
Scope	Affects processing of all types of data streams sent to all types of printers.
Syntax	XJCFMODE= [C | F | S | **N**]

where

N XJCF support is not required.

S XPAF simulates XJCFSIM simulation table. XJCF is not installed.

F XPAF simulates XJCFSIM simulation table only for the first dataset in an output group.

C XPAF coexists with XJCF through the XIM table. XJCF is installed.

. **Default**	N
Example	XJCFMODE=S
Overrides	You can override this parameter using the XJCFSIM extended JCL keyword.
Related information	The procedures for installing and using XPAF with XJCF are described in both Section Two: Installing and Customizing XPAF and Section Four: Printing Documents with XPAF. These sections address both coexistence and simulation modes.

PA13119 / TA3101 – New message

***XPAF Version 4.0 Messages* has been updated with this information.**

XLD0701I

XLD0701I   *operation* **COMPLETED** *action*

Explanation:	An XLD function completed as described in the message text. For example, the message "DELETE COMPLETED SUCCESSFULLY FOR member OF library BY userid" indicates that the member was deleted successfully from a native library.
System Response:	None.

User Action: None required.

PA55422 / TA3101 – PCL Secure Print support

Chapter 13 "Setting up PCL-capable printers" has been updated with the following information.

Specifying a Secure Print pass code feature for Xerox PCL devices

Many Xerox PCL devices support the "Secure Print" feature that assigns a one to 12 digit pass code to a document sent to the printer. The document will not print until released by manually entering the pass code on the device. For more information on the secure print feature, or to determine if your printer supports the secure print feature go to the Xerox support page, enter the printer's model number and search on "Secure Print".

Specifying the pass code via extended JCL.

To specify a secure print pass code for a document, use the XSPPCODE extended JCL keyword.

Note: The value specified will be visible in the JESJCL system dataset as well as your JCL

Specifying the pass code via an XPAF User Exit

The secure print passcode is stored in the XPAF XDIB control block in field XDIBSPPC. To set a pass code for a document, move a 1 to 12 digit character string into this field..

For example, add the following code example for XPAF user exit 2 will specify a pass code of '123456789' to any job with a job name of "SECUREJB"

```
CLC    XDIBJNAM,=CL8'SECUREJB'      Is this the secure job?

BNE    NOTSEC                       No, carry on

MVC    XDIBSPPC,=CL12'123456789'    Set the Secure print pass code
```

Note: To allow users to specify their own pass code, the user exit could be modified to read the pass code from an ACF protected dataset.

New and updated XPAF extended JCL keywords

The XSPPCODE extended JCL keyword has been added to XPAF:

XSPPCODE

Description   Specifies a one to 12 digit passcode to be used when sending a document to a PCL printer.

Scope   Affects processing of all PCL documents.

Syntax   //REPORT OUTPUT XSPPCODE=*passcode*

where

	passcode The 1- to 12-digit pass code.
Default	None.
Example	//REPORT OUTPUT XSPPCODE=1234
Overrides	None.
Related Information	Refer to the ""Specifying a Secure Print pass code feature for Xerox PCL devices" section of the XPAF User Guide for more information.

XJCFSIM

Description	Description Indicates whether XJCF simulation is in effect for this print job.
Scope	Affects processing of XJCF simulation mode for all types of datastreams to all types of printers.
Syntax	XJCFSIM={**Y**ES	**N**O	**F**IRST }

where

YES   Activates XJCF simulation for this job and overrides any value set in the XJCFMODE printer profile parameter.

NO   Does not activate XJCF simulation for this job.

FIRST   Activates XJCF simulation only for the first dataset in the output group and overrides any value set in the XJCFMODE printer profile parameter.

Default	None.
Example	//REPORT OUTPUT XJCFSIM=Y
Overrides	None.
Related Information	See also the XJCFMODE printer profile parameter.

PA13120 / TA3115 – Updated printer profile parameter

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* **has been updated with this information.**

New value of DATASET has been added to TCPMODE

TCPMODE (Printer profile parameter)

Description	Specifies the TCP protocol used to send data to this printer XPAF.
Scope	Affects processing of all types of data streams sent to all types of printers using the TCP/LPR or TCP/IP protocols.
Syntax	TCPMODE={BATCH	DATASET	LPR	TCPIP	TCPLPR]

where

BATCH|LPR		Indicates that the TCP/LPR protocol is used to send data to this printer. It also indicates that the resulting print file is processed via a batch job that is built from the skeleton JCL specified by the LPRJCL parameter and submitted via the internal reader. A sample JCL (XTCPIPJ) is provided to illustrate a method of sending a print file via batch LPR.
DATASET		Indicates that the data created by XPAF is saved in a dataset. No further processing of the dataset is performed.
TCPLPR		Indicates that the direct TCP/LPR protocol is used to send data directly from XPAF to the LPD Server.
TCPIP		Indicates that the TCP/IP direct socket protocol is used to send data to this printer. This requires the TCPPORT value to be set to the server's port number.

Default   NONE

Example   TCPMODE=TCPLPR

Overrides   None.

Related information   See also the IPADDR, LPRBNDRY, LPRDSN, LPRJCL, LPRQNAME, and TCPPORT printer profile parameters for information on setting up your system for TCP batch printing. For LPR protocol requests, see also the OPDALLOC, OPDUNIT, OPHLQ, and OPVOLSER initialization parameters for information on specifying the characteristics of the interim dataset used during TCP batch printing.

PA13109 / TA3129 – Additional XFG messages

Chapter 7 "Messages" in *XPAF Forms Generator User Guide and Reference* has been updated with this information:

XFG3585W   **nn DAYS LEFT IN GRACE PERIOD**

Indication   The expiration date has passed for the XPAF Forms Generator. A grace period has been entered and there are nn days left in the grace period before the product will cease to function.

Action   Contact Xerox to obtain a valid license.

XFG3589W   ***** WARNING *** WARNING *** WARNING *** WARNING *****

Indication   This message is issued in conjunction with other messages.

Action   Refer to the actions for the messages issued with XFG3589W.

XFG3593E   **NO VALID LICENSE STRING FOUND FOR XFG**

Indication   A valid license for the XPAF Forms Generator could not be found.

Action   Contact Xerox to obtain a valid license.

XFG3594E	XFG LICENSE HAS EXPIRED

	Indication	The XPAF Forms Generator license has expired.
	Action	Contact Xerox to obtain a valid license.

XFG3595W	XFG LICENSE WILL EXPIRE IN nn DAYS

	Indication	The XFG License has less than 30 days before it will expire.
	Action	Contact Xerox to renew the license string.

PA55429 / TA1350 – Updated initialization parameter

Chapter 40 "Initialization parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

OPDLRECL (initialization parameter)

Description For XOSF processing, defines the maximum logical record length for output destined for disk datasets. Block size will be set to zero, allowing the operating system to allocate the most efficient block size for the device being used. Minimum value allowed is 214. Maximum value allowed is 31900. Note that the block size will always be at least the LRECL size plus 4, so make sure you use a value that will allow the most efficient use of your DASD. The default value of 27994 allows for half-track blocking on a 3390 at 27998. Half-track blocking for the 3380 would require a value of 23472 giving a block size of 23476.

Scope Affects processing of all types of data streams sent to all types of printers with output to disk.

Syntax OPDLRECL=value

where

value Defines the maximum logical record length for output destined for disk datasets.

Default 27994

Example OPDLRECL=23472

Overrides None.

Related information See also the OPDALLOC, OPDALLOS, OPDUNIT, OPHLQ and OPVOLSER initialization parameters, the WRITER printer profile parameter, and the OPWRITER extended JCL keyword.

PA13126 / TA3262 – z/OS 2.1 Support

Chapter 45 "XIN messages" in *Section Six: XPAF Messages* has been updated with this information.

XIN0031F

XIN0031F   XPAF EXTENDED JCL IS NOT AT THE CORRECT LEVEL FOR THIS VERSION OF Z/OS. CORRECT AND RETRY.

Explanation: XOSF has detected that it is running on a z/OS 2.1 system and that an old version of the XPAF extended JCL JDTs has been installed. XOSF is unable to resolve this inconsistency and, to avoid documents printing incorrectly, terminates.

System response: XOSF terminates.

User action: Remove the old XESJDT00 module and install the correct XZSJDT21 JDT module, by running the XPAFJCL Started Task with the P=REMOVE option, followed by the P=INSTALL option. Make sure that the XPAF JCL Started Task procedure has been updated to specify the XPAF libraries

XPAF extended JCL updates

The XPAF extended JCL installer has been modified to detect the version of z/OS it is running under and to install the correct JDT module. For z/OS 2.1, the module XZSJDT21 will be installed. For z/OS 1.13 and earlier, module XESJDT00 will be installed.

In addition, a new "DISPLAY" option is available to XFSJCL to display the JDTs currently installed on the system

Chapter 5 "Using XPAF extended JCL installation options" in *Section Two: Installing and Customizing XPAF* has been updated with the following information.

Using XPAF extended JCL installation options

You can install XPAF extended JCL keywords and apply maintenance to them without performing an IPL. To do so, use these options, which are specified on the PARM parameter of the EXEC statement in the extended JCL proc:

- INSTALL
- LOAD
- REDO
- REMOVE
- DELETE
- DISPLAY

DISPLAY

Use this option to display the installed JDTs on your system.

At the master console, enter:

        S XJCLPROC,P=DISPLAY

PA13137 / TA4016 – XFSJCL Enhancements

Chapter 45 "XFS messages" in *Section Six: XPAF Messages* has been updated with this information.

XFS0123E

XFS0123E   MODULE *name* **IS CURRENTLY IN USE IN THE JDVT AND CANNOT BE DELETED. REMOVE THE MODULE FIRST.**

Explanation: The XPAF extended JCL installer, XSFJCL, has detected that the JDT module in the MLPA is currently installed and referenced in the JDVT. Deleting the module would result in XOSF ABENDing.

System response: XFSJCL does not delete the module and terminates.

User action: Remove the old JDT module by running the XPAFJCL Started Task with the P=REMOVE option, then re-try the job to delete the module

XPAF extended JCL updates

The XPAF extended JCL installer has been modified to accept the parameters "LOAD" and "DELETE". It is now no longer necessary to specify the "=ALL" after these parameters which means these parameters do not need to be enclosed in quotes.

Chapter 5 "Using XPAF extended JCL installation options" in *Section Two: Installing and Customizing XPAF* has been updated with the following information.

LOAD

Use this option to load the JDT module for your system into the MLPA from the dataset specified in the XJDTLPA DD statement in the extended JCL procedure.

At the master console, enter:

        S XJCLPROC,P=LOAD

DELETE

Use this option to delete the XPAF JDT load module for your system from the MLPA. The JDT module must have been loaded previously using the LOAD option and cannot be the currently installed module.

If you previously specified the INSTALL or REDO option after loading the JDT module into the MLPA, you must REMOVE the module before deleting it.

At the master console, enter:

        S XJCLPROC,P=DELETE

PA13138 / TA4016 – PDF Viewing Orientation

Chapter 14 "Setting up the PDF Transform" has been updated with the following information.

AFP Specific

This section relates to AFP data streams converted to PDF.

Viewing Orientation

The viewing orientation of a page in a converted AFP document is taken from the MDD, if one exists. If an MDD is not found, the value specified for the PMODE keyword/parameter is used.

New XPAF extended JCL keywords

The XPDFVIEW extended JCL keyword has been added to XPAF:

XPDFVIEW

Description	Specifies the viewing orientation of PDF files created from AFP documents. The orientation specified in the MDD structure field for the page will be ignored and the orientation will be set based on the value specified. All pages in the created PDF file with have the same orientation.
Scope	Affects processing of AFP documents converted to PDF.
Syntax	//REPORT OUTPUT XPDFVIEW={**L**ANDSCAPE | **P**ORTRAIT}

where

LANDSCAPE   viewing orientation is set to landscape

PORTRAIT   the viewing orientation is set to portrait.

Default	None.
Example	//REPORT OUTPUT XPDFVIEW=L
Overrides	None.
Related Information	Refer to the ""Specifying a Secure Print pass code feature for Xerox PCL devices" section of the XPAF User Guide for more information.

PA13138 / TA4016 – PDF Viewing Orientation

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XPDFVIEW

Description	Specifies the viewing orientation of PDF files created from AFP documents. The orientation specified in the MDD structure field for the page will be ignored and the orientation will be set based on the value specified. All pages in the created PDF file with have the same orientation.
Scope	Affects processing of AFP documents converted to PDF.
Syntax	//REPORT OUTPUT XPDFVIEW={**L**ANDSCAPE | **P**ORTRAIT}
	where
	LANDSCAPE viewing orientation is set to landscape
	PORTRAIT the viewing orientation is set to portrait.
Default	None.
Example	//REPORT OUTPUT XPDFVIEW=L
Overrides	None.
Related Information	Refer to the ""Specifying a Secure Print pass code feature for Xerox PCL devices" section of the XPAF User Guide for more information.

PA55430 / TA4030 – New Feature Support

PA55430 provides the following new features:

Feature descriptions

XPAF has been enhanced to allow an LCDS document to be broken up into multiple segments or subsets. The primary purpose of this feature is to enable a large report containing information on multiple accounts to be broken up into individual output files.

When used with the PDF transform, a PDF file for each subset is created.

For example, a job currently prints account statements at the end of the month. The single job is a 10,000 page report that contains statements for 1,000 individual accounts. Normally, when the job is converted by XPAF to PDF, a single 10,000 page PDF file is created containing all 1,000 accounts. With the LCDS splitting feature, 1,000 individual PDF files are generated. Each PDF file contains only those pages associated with the account in question.

Naming multiple segments from a single job

Additional features have been added to XPAF to assist with the handling of multiple segments generated from a single job.

To uniquely name each segment, XPAF uses the string stored in the Xerox Output Descriptor Control Block, Mail File name field, XODBMFNM. XODBFNM can be set via the MAILFILE IBM extended JCL keyword, XPAF User Exits, a field from the input record defined by the trigger file or via the enhanced DJDE XFILENAME.

The XODBMFN value can then be used to specify:

The name of an email attachment

The document name when the file is LPR'd to an LPD server

The dataset name to rename the temporary dataset to be saved on DASD

As an input parameter to a BATCH JCL/REXX invocation for storing the document on an FTP server

LCDS to PDF Shading overrides

AR55430 also includes the ability to specify overrides for LCDS shading when converting a document to PDF. Shading is typically specified in forms, .FRMs, and is specified as LIGHT, MEDIUM or HEAVY.

Three new printer profile parameters:

LCDS_Light_Shading_Percent

LCDS_Medium_Shading_Percent and

LCDS_Heavy_Shading_Percent

And three new extended JCL keywords:

XLCDSLSP

XLCDSMSP and

XLCDSHSP

Values for all six parameters are specified as a percentage, 0 to 100, where 0 indicates no shading and 100 indicates solid black.

Splitting a document

There are two methods of splitting an LCDS document: using a trigger file or using Enhanced DJDEs. The following two sections describe how to use both methods.

Using the Trigger File

This section includes information on how to split an LCDS document using a trigger file. The trigger file describes how an input record is tested to determine if the document should be split and the name for the segment

Enabling document splitting

Document splitting is enabled by specifying

FEATURE=SPLITDOC

In the Printer Profile Table, PPT, for each printer that needs to split documents.

Specifying that a document is to be split

The details on how an LCDS document is to be split is defined in, what is referred to as a "Trigger" file.

The trigger file is a member of a LRECL=80, RECFM=FB, PDS that is referenced by the TRIGGER DD statement in the XOSF started task procedure.

The member name used is the same name as the job name being processed (or is specified by the XTRIGGER XPAF extended JCL keyword)

Specifying the trigger file

Create a member with the name of the job you wish in the TRIGGER DD dataset to specify the following trigger options, a sample can be found in XPFSAMP(LTRIGGER):

Option	Description
* in column 1	Comment
TRIGGER="trigger value"	Specifies the string that is to be matched with the input data record to determine if the input record is a trigger record. The "?" character can be used as a mask and will match any character in the input record.
	Example:
	`TRIGGER="00001 ????? EFT"`
	The input record, at the offset specified by the TCOL value is compared to the trigger string. The first six characters must be "00001 ". The next 5 characters are ignored, then the next four characters must be " EFT"
TRIGGER=X"hex string"	Specifies that the trigger value is specified as a hex string. This notation is used to define a trigger value for Metacode input
	Example:
	`TRIGGER=X"062100046800004D"`
	The input record, at the offset specified by the TCOL value, is compared to the trigger string.
STARTLINE=n	Specifies the starting line number for comparing the trigger value to the input record.
	Where n is an integer 0 to 32767
	Example:
	`STARTLINE=5`
	The lowest line number to search for a trigger record is line 5

	Default: STARTLINE=0
ENDLINE=n	Specifies the ending line number of the input record for comparing to the trigger string.
	Where n is an integer 0 to 32767
	Example:
	`ENDLINE=10`
	The highest line number to search for a trigger string is line 10
	Default: The default value of ENDLINE is the value used for start line
TCOL=n	Specifies the starting column, or offset, in the input record to start comparing to the value. The carriage control byte is not included in the TCOL calculation. The first byte of the input record is considered to be column 0
	Where n is an integer 0 to 32767
	Example:
	`TCOL=153`
	Compare the input record, starting in column 153 to the trigger value.
NAMESTART=n	Specifies the starting column, or offset, in the input record to the start of the string to be used in creating the segment name
	The carriage control byte is not included in the NAMESTART calculation. The first byte of the input record is considered to be column 0
	Where n is an integer 0 to 32767
	Example:
	`NAMESTART=138`
	The segment name starts in column 138 of the input record.
NAMELENGTH=n	Specifies the length of the string, starting in column NAMESTART to be used for the segment name
	Where n is an integer 1 to 32767
	Example:
	`NAMELENGTH=24`
	24 bytes of the input record, starting at the column specified by NAMESTART, will be used in creating the segment name.
NAMEPREFIX="string"	Specifies a string that is prefixed to the segment name extracted from the input record.

	Where string is a 1 to 20 character string
	Example:
	`NAMEPREFIX="PAYROLL."`
	The string "PAYROLL." Is added to the start of the segment name.
NAMESUFFIX="string"	Specifies a string that is suffixed to the segment name extracted from the input record.
	Where string is a 1 to 20 character string
	Example:
	`NAMEPREFIX=".PDF"`
	The string ".PDF" is added to the end of the segment name.
CHANGESTART=n	Specifies the start column of the portion of the input record that is tested to see if a change has occurred. The contents of the "change" portion of the input trigger record are compared to the value found on the previous input trigger record. If the two values are different, a new segment will be created.
	Where n is an integer from 0 to 32767
	Example:
	CHANGESTART=150
	The string starting in column 150, for a length specified by CHANGELENGTH, is used to detect if the segment has changed.
	Default: If neither CHANGESTART nor CHANGELENGTH have been specified, NAMESTART and NAMELENGTH will be used.
CHANGELENGTH=n	Specifies the length of the portion of the input record that is tested to see if a change has occurred. The contents of the "change" portion of the input trigger record are compared to the value found on the previous input trigger record. If the two values are different, a new segment will be created.
	Where n is an integer from 1 to 32767
	Example:
	CHANGELENGTH=7
	The string, starting in the column specified by CHANGESTART, for a length of 7 bytes is used to detect if the segment has changed
ENCODING=ASCII | EBCDIC	Specifies the character encoding of the

	name segment in the input record.
	EBCDIC is used for line mode or DJDE data.
	ASCII is used of Metacode data
	If ENCODING=ASCII is specified the string obtained from the input record will be translated from ASCII to EBCDIC
BLANKNAME=NO | YES	Specifies whether the name segment of the input trigger record should be replaced by blanks, so the name does not appear in the output.
	Default: BLANKNAME=NO
TRACE=ALL | FILE | LINES | MATCHED | YES | NO	Specifies whether or not trace messages will be generated when the job is processed.
	Where:
	TRACE=FILE, Echo trigger file records to the log. Only records after the TRACE=FILE will be echoed. IF used, it is recommended that TRACE=FILE is the first record in the trigger file.
	TRACE=LINES, Issue a message indicating the logical line number and input record number of the record being traced. Note: Due to DJDE and carriage control consolidation, the input record number may be less than the actual record number in the input data.
	TRACE=MATCHED, only log information on records that match the trigger record.
	If TRACE=YES is specified, additional messages will be issued for each record that resides in the range of lines specified by STARTLINE/ENDLINE and is long enough to contain the trigger and name strings.
	TRACE=ALL, is equivalent to specifying all TRACE options.
VIEWROTATION=L | P	Specifies the viewing rotation for each segment. This parameter can be used to correctly set the viewing rotation of Metacode data streams converted to PDF.
	Default: None. The rotation is determined by the orientation set in the LCDS data stream. For Metacode documents, where the orientation is always Landscape, the orientation is determined by the fonts used on the page.
INCLUDEBLANKPAGES=NO | YES	Specifies whether or not XPAF should generate blank pages when required to

	maintain the correct side for duplexing, for example, when a DJDE SIDE=NUFRONT is encountered for a page that would otherwise be printed on the back of a sheet.
	This parameter can be used blank pages from LCDS documents converted to PDF.
	Default: The value specified by the Printer Profile parameter FEATURE=SUPBLNKPG
	Example: INCLUDEBLANKPAGES=NO

Trigger File example for a DJDE data stream:

In this example, the Linemode/DJDE mode data is a set of account statements with the following properties:

- The first page of each statement has the account number on line 8 (Channel 1 has been assigned to line 2)

- The account number is a 10 digit unique identifier starting in column 19

- The account number is preceded by the text "Account No." which starts in column 7.

    Note: The ISPF column display starts with the first character of a record as column one. The trigger column number starts with the first character at offset zero. In addition, the dataset is formatted with carriage control, so the first character of data starts in ISPF column two. To convert the ISPF column number to a trigger column value, subtract two from the ISPF column number.

```
=COLS> ----+----1----+----2----+----3----+----4---
       191*0987654321*
       +@@@DJDE IMAGE=(GISIMG,0.2 IN,0.2 IN),END;
        81
        81 PADDY O'FURNITURE
        81 27 BBQ LANE
        81 GHOST TOWN   AK 99999-5432
        11
        11      Account No. 0987654321
```

The following trigger file is used to split the data:

```
*
* PDF SPLITTING TRIGGER DEFINTION FILE
*
TRACE=NO
TRIGGER="Account No."
STARTLINE=8
TCOL=7
NAMESTART=20
NAMELENGTH=10
NAMEPREFIX="TCX.G"
NAMESUFFIX=".PDF"
ENCODING=EBCDIC
SPLIT=TOP
```

Using the trigger file with the data defined above through the PDF transform will result in a PDF file called TCX.G0987654321.PDF.

Points to Note

- The line number is based on the carriage control and the VFU or FCB in use when the job is processed, rather than the record number in the dataset. For example, if channel 1 has been assigned to line 5, then the record with a "Skip to Channel 1 and Print" will be on Line 5.

- An input record must be greater than or equal to the minimum length required to contain both the trigger string and the name string before it is tested for a match.

- The name of the segment is saved when a trigger record is found. The name on the next matching trigger record is compared to the previous name. Only if the names differ is a new segment created.

Using Enhanced DJDEs

This feature update introduces a new concept of XPAF Enhanced DJDEs.

These DJDEs are special DJDE comments that are recognized by XPAF to affect processing. Since the enhanced DJDEs are specified as comments, they will not cause errors if sent to an LCDS device that does not support them.

Enhanced DJDE format

All enhanced DJDEs use the same format. They use the DJDE identifier and start with a "C " in the first position of the command.

For example, if the DJDE identifier is "@@@DJDE" with a SKIP value of 8, and enhanced DJDE would look like:

@@@DJDE C XFILENAME=PAYROLL.MONTHLY.REPORT

Enhanced DJDE commands

The following enhanced DJDE commands are available:

XFILENAME

Description	Specifies a one to 60 character name to be used as the file name of the converted document.
Scope	Affects processing of all LCDS documents transformed to PCL or PDF.
Syntax	@@@DJDE C XFILENAME=*filename*
	where
	filename The 1- to 60 character file name.
Default	None.

Example	@@@DJDE C XFILENAME=PAYROLL-MONTHLY-REPORT
Overrides	None.
Related Information	Refer to the ""Splitting LCDS Documents" section of the XPAF User Guide for more information.

XSPLIT

Description	Specifies that the document should be split in .
Scope	Affects processing of all LCDS documents transformed to PCL or PDF.
Syntax	@@@DJDE C XSPLIT={NEWFRONT	RPAGE |TOP	OFFSET	OFF}
	where
	NEWFRONT *Specifies that the document should be split when a SIDE=NUFRONT condition is detected*
	RPAGE Specifies that the document should be split when an RPAGE condition occurs,
	TOP Indicates that the document should be split at the top of the current page
	OFFSET specifies that the document should be split when an OFSFET occurs
	OFF Turns off document splitting in the current document..
Default	None.
Example	@@@DJDE C XSPLIT=TOP
Overrides	None.
Related Information	Refer to the ""Splitting LCDS Documents" section of the XPAF User Guide for more information.

Renaming the output on DASD

Use the TCPMODE=RENAME, printer profile parameter to indicate that XOSF is to rename the temporary data set to a name specified in the XODB Mail file name field, XODBMFNM

Example:

```
DEVICE=PDF
IPADDR=9LKR4Q1.na.xerox.net
TDF=Y,
FEATURE=SPLITDOC
FEATURE=(COLOR,EDGE2EDGE,DUPLEX)
DEFLINE=DJDE,
TCPMODE=RENAME
LPRDSN=MKEAN.XPAF.XINPARM,
XPDFFSUB=PDFFONTG
```

Note: You must specify a valid dataset name in the XODBMFNM field

New messages

XPAF Version 6.0 Messages **has been updated with this information.**

XCD4155W

XCD4155W   MEMBER *member* WAS NOT FOUND IN THE LCDS TRIGGER LIBRARY. THE DOCUMENT WILL NOT BE SPLIT.

Explanation: XOSF was unable to find the specified member name in the LCDS trigger dataset pointed to by DDNAME TRIGGER in the XOSF PROC.

System Response: None.

User Action: Either create a trigger with the specified member name, or point to a different member using the XSPLTMEM extended JCL keyword.

XCD4156W

XCD4156W   UNABLE TO OPEN LCDS TRIGGER LIBRARY. THE DOCUMENT WILL NOT BE SPLIT.

Explanation: XOSF was unable to open the trigger file dataset, pointed to by DDNAME.

System Response: None.

User Action: Check that the TRIGGER DD statement in the XOSF started task procedure points to a valid partitioned dataset.

XCD4157W

XCD4157W   THE RENAME DATASET NAME IS BLANK. THE. DATASET WILL NOT BE RENAMED.

Explanation: For a TCPMODE=RENAME printer, The XODBMFNM field is blank.

System Response: The dataset is not renamed.

User Action: Check that XODBMFNM field specifies a valid dataset name, via the MAILFILE JCL keyword, LCDS Splitting or user exits.

XCD4158W

XCD4158W   THE RENAME DATASET *name1* COULD NOT BE ALLOCATED. THE DATASET *name2* WILL NOT BE RENAMED

Explanation: For a TCPMODE=RENAME printer, XOSF was unable to allocate the dataset, *name1*.

System Response: The temporary dataset *name2* is not renamed.

User Action: Check that XODBMFNM field specifies a valid dataset name, via the MAILFILE JCL keyword, LCDS Splitting or user exits.

XCD4159W

XCD4159W   **TRIGGER COMMAND INVALID:** *parameter*.

     Explanation: An invalid command was entered in the trigger definition file.

     System Response: The invalid command is ignored.

     User Action: Edit the trigger definition file and correct the error.

XCD4160W

XCD4160W   **TRIGGER COMMAND INVALID INTEGER:** *parameter*.

     Explanation: A non-integer value was entered for the command specified in the trigger definition file.

     System Response: The invalid command is ignored.

     User Action: Edit the trigger definition file and correct the error.

XCD4161W

XCD4159W   **TRIGGER COMMAND VALUE MUST BE GREATER THAN ZERO:** *parameter*.

     Explanation: A value of zero was entered for a parameter that requires a value greater than zero.

     System Response: The invalid command is ignored.

     User Action: Edit the trigger definition file and correct the error.

XCD4162I

XCD4162I   **TRIGGER COMMAND TRACE:** *command*.

     Explanation: This is an informational message issued during processing of the trigger definition file, when TRACE=FILE has been specified.

     System Response: None.

     User Action: None.

XCD4163I

XCD4163I   **- NAMESTRING=***string*

Explanation: This is a trace message issued when a trigger record has been found that displays the contents of the record defined by the NAMESTART and NAMELENGTH parameters.

System Response: None.

User Action: None.

XCD4164I

XCD4164I   **- CHANGESTRING=*string***

Explanation: This is a trace message issued when a trigger record has been found that displays the contents of the record defined by the CHANGEESTART and CHANGELENGTH parameters.

System Response: None.

User Action: None.

XCD4165I

XCD4165I   **TRIGGER COMMAND INVALID HEX STRING: *parameter*.**

Explanation: A non-hex value was entered for the command specified in the trigger definition file. Hex strings are specified using the two character hex notation where each character is in the range 0-9, A-F.

System Response: The invalid parameter is ignored.

User Action: Edit the trigger definition file and correct the error.

XCD4166I

XCD4166I   **INPUT RECORD TOO SHORT TO TEST AS TRIGGER RECORD**

Explanation: This is an informational message issued during trigger tracing indicating that the input record is too short to match the requirements of a trigger record

System Response: None.

User Action: None.

XCD467I

XCD4167I   **TRIGGER RECORD FOUND (CHANGE STRING DIFFERENT)**

Explanation: This is an informational message, issued during trigger tracing, indicating that the record that matches the input trigger definition signifies a new segment as the "CHANGE" portion of record is different from the previously detected trigger record.

System Response: None.

User Action: None.

XCD4168I

XCD4168I   TRIGGER RECORD FOUND (CHANGE STRING SAME AS PREVIOUS)

Explanation: This is an informational message, issued during trigger tracing, indicating that the record that matches the input trigger definition, has the same "CHANGE" portion as the previously detected trigger record. A new segment is not created.

System Response: None.

User Action: None.

XCD4169I

XCD4159W   TRIGGER TEST FOR RECORD recnum, LOGICAL LINE NUMBER linenum

Explanation: This is an informational message, issued during trigger tracing, indicating the input record number, recnum, and logical line number, linenum, of the record currently being tested. Note: Due to DJDE command merging and carriage control conversion/consolidation the record number may not match the actual input record number.

System Response: None.

User Action: None.

XCD4170I

XCD4170I   TRIGGER: trigger

Explanation: This is an informational message, issued during trigger tracing, indicating the trigger test string specified in the trigger definition file.

System Response: None.

User Action: None.

XCD4171I

XCD4171I   RECORD:

Explanation: This is an informational message, issued during trigger tracing, indicating the portion of the input record that is defined as the trigger..

System Response: None.

User Action: None.

XCD4180I

XCD4190I   OUTPUT COPIED TO: *dsname*

Explanation: The temporary dataset has been successfully copied to the new dataset *dsname*.

System Response: None.

User Action: None.

XCD4181E

XCD4181E   **COULD NOT *action* RENAME DATASET *dsname*, RC=X'*return code*'**

Explanation: When attempting to perform the action indicated on the dataset, *dsname*, and error was encountered.

System Response: The temporary dataset was not renamed.

User Action: Cehck for additional error messages, resolve the problem and retry the job

New and updated XPAF extended JCL keywords

The XSPPCODE extended JCL keyword has been added to XPAF:

XSPLTMEM

Description   Specifies a one to eight character name to be used as the LCDS split trigger member.

Scope   Affects processing of all LCDS transformed to PCL or PDF.

Syntax   //REPORT OUTPUT XSPLTMEM=*memname*

where

passcode   The 1- to eight character member name.

Default   None.

Example   //REPORT OUTPUT XSPLTMEM=PAYROLL2

Overrides   None.

Related Information   Refer to the ""Splitting LCDS Documents" section of the XPAF User Guide for more information.

XLCDSLSP

Description   LCDS to PDF Light Shading override.

Scope   Affects processing of all LCDS transformed to PDF.

Syntax	//REPORT OUTPUT XLCDSLSP=*percent*
	where
	percent The percentage of black to be used when converting LCDS "LIGHT" shading to a PDF shaded area.
Default	The value specified by the **LCDS_Light_Shading_Percent** printer profile parameter
Example	//REPORT OUTPUT XLCDSLSP=5
Overrides	None.
Related Information	See also the LCDS_Light_Shading_Percent printer profile parameter.

XLCDSMSP

Description	LCDS to PDF Medium Shading override.
Scope	Affects processing of all LCDS transformed to PDF.
Syntax	//REPORT OUTPUT XLCDSLSP=*percent*
	where
	percent The percentage of black to be used when converting LCDS "MEDIUM" shading to a PDF shaded area.
Default	The value specified by the **LCDS_Medium_Shading_Percent** printer profile parameter
Example	//REPORT OUTPUT XLCDSMSP=15
Overrides	None.
Related Information	See also the LCDS_Medium_Shading_Percent printer profile parameter.

XLCDSHSP

Description	LCDS to PDF Heavy Shading override.
Scope	Affects processing of all LCDS transformed to PDF.
Syntax	//REPORT OUTPUT XLCDSHSP=*percent*
	where
	percent The percentage of black to be used when converting LCDS "MEDIUM" shading to a PDF shaded area.
Default	The value specified by the **LCDS_Heacy_Shading_Percent** printer profile parameter
Example	//REPORT OUTPUT XLCDSHSP=50
Overrides	None.
Related Information	See also the LCDS_Heavy_Shading_Percent printer profile parameter.

New and updated printer profile parameters

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

New value of DATASET has been added to TCPMODE

TCPMODE (Printer profile parameter)

Description	Specifies the TCP protocol used to send data to this printer XPAF.
Scope	Affects processing of all types of data streams sent to all types of printers using the TCP/LPR or TCP/IP protocols.
Syntax	TCPMODE={BATCH | DATASET | LPR | RENAME | TCPIP | TCPLPR]

where

BATCH|LPR	Indicates that the TCP/LPR protocol is used to send data to this printer. It also indicates that the resulting print file is processed via a batch job that is built from the skeleton JCL specified by the LPRJCL parameter and submitted via the internal reader. A sample JCL (XTCPIPJ) is provided to illustrate a method of sending a print file via batch LPR.
DATASET	Indicates that the data created by XPAF is saved in a dataset. No further processing of the dataset is performed.
RENAME	Specifies that the data create by XPAF is saved in a dataset which is then renamed using a name specified in the XODB Mail File Name field, XODBMFNM
TCPLPR	Indicates that the direct TCP/LPR protocol is used to send data directly from XPAF to the LPD Server.
TCPIP	Indicates that the TCP/IP direct socket protocol is used to send data to this printer. This requires the TCPPORT value to be set to the server's port number.

Default	NONE
Example	TCPMODE=TCPLPR
Overrides	None.
Related information	See also the IPADDR, LPRBNDRY, LPRDSN, LPRJCL, LPRQNAME, and TCPPORT printer profile parameters for information on setting up your system for TCP batch printing. For LPR protocol requests, see also the OPDALLOC, OPDUNIT, OPHLQ, and OPVOLSER initialization parameters for information on specifying the characteristics of the interim dataset used during TCP batch printing.

FEATURE *(Printer profile parameter)*

Note: This parameter will be renamed in the official release.

Description Specifies the capabilities of the printer to XPAF.

Scope Affects processing of all LCDS transformed to PCL or PDF.

Syntax

SPLITDOC Indicates that LCDS documents should be split into multiple segments as specified by the TRIGGER definition file. Refer to the "Splitting LCDS documents" section.

SUPBLNKPG Specifies that when converting LCDS documents to PCL or PDF, blank pages should not be inserted to maintain duplexing page order.

New LCDS to PDF shading overrides have been added:

LCDS_Light_Shading_Percent *(Printer profile parameter)*

Description Specifies the LCDS to PDF Light shading override.

Scope Affects processing of all LCDS transformed to PCL or PDF.

Syntax LCDS_Light_Shading_Percent=*percent*

where

percent The percentage of black to be used when converting LCDS "LIGHT" shading to a PDF shaded area.

Default 10

Example LCDS_Light_Shading_Percent=5

Overrides None.

Related information See also the XLCDSLSP extended JCL keyword.

LCDS_Medium_Shading_Percent *(Printer profile parameter)*

Description Specifies the LCDS to PDF Medium shading override.

Scope Affects processing of all LCDS transformed to PCL or PDF.

Syntax LCDS_Medium_Shading_Percent=*percent*

where

percent	The percentage of black to be used when converting LCDS "MEDIUM" shading to a PDF shaded area

Default   20

Example   LCDS_Light_Shading_Percent=5

Overrides   None.

Related information   See also the XLCDSLSP extended JCL keyword.

LCDS_Heavy_Shading_Percent *(Printer profile parameter)*

Description   Specifies the LCDS to PDF Heavy shading override.

Scope   Affects processing of all LCDS transformed to PCL or PDF.

Syntax   LCDS_Heavy_Shading_Percent=*percent*

where

percent	The percentage of black to be used when converting LCDS "MEDIUM" shading to a PDF shaded area

Default   41

Example   LCDS_Heavy_Shading_Percent=50

Overrides   None.

Related information   See also the XLCDSHSP extended JCL keyword.

PA55432 / TA4072 – LCDS Splitting Enhancements

PA55432 provides the following updates to the LCDS splitting feature:

Documents can now be saved as members of a PDSE or as UNIX files

A static trigger can be used to split a document and a sequence number can be specified as the variable part of the document name.

Renaming documents to PDSE members or UNIX files

To save documents, or document segments as PDSE members include the member name in the extended JCL MAILFILE=, XODBMFN field, or trigger file definition.

Example: `MAILFILE=TC.DAILY.REPORT(D140311)`

If the PDSE does not exist, it will be created using the space allocation specified by the OPxxxxx XINSXOSF initialization parameters.

To save documents, or document segments as UNIX files, specify the UNIX file path in the extended JCL MAILFILE=, XODBMFN field, or trigger file definition.

Example: `MAILFILE=/u/xpaf/dailyrepot/D140311.PDF`

Trigger definition parameter updates

The following parameters have been added:

Option	Description
* in column 1	Comment
SPLIT_ON_SAME_NAME={Y | N}	Indicates whether or not a new segment should be created if the name found in the trigger string is the same as the previously matched trigger Example: `SPLIT_ON_SAME_NAME=Y` To uniquely name segments, that use the same name in the trigger file, use the SEQUENCE_NUMBER_DIGITS trigger file parameter
SEQUENCE_NUMBER_DIGITS=n	Specifies the number of digits to be used for the segment sequence number which will be used as the variable part of the segment name. Segment numbers will be left padded with zeroes to generate the required number of digits. Where n is an integer 1 to 8 Example: SEQUENCE_NUMBER_DIGITS=5 Specifies that five digits will be used as the variable part of the segment name. The digits used will be 00001, 00002, 00003, etc. Default: None.

PA13156 / TA4107 – XJCF Simulation new keywords

The "Enabling XJCF simulation processing" in Chapter 16 has been updated with the following information:

Non-DJDE Keywords

For each XJCF simulation table the following paragraph has been updated with the text in red:

You can specify the non-DJDE keywords DJDE, FCB, UCS, FLASH, TWOUP, PAPERSIZE, LINECT, XIPADDR, IP, HOST, XLPRQNAM, QNAME, PORT, and CLUSTRTB in this table. XPAF processes them as if they were coded in the JCL but does not generate DJDE statements for them.

IP and HOST are synonyms for XIPADDR. QNAME is synonymous for XLPRQNAM.

Example:

```
RMT25      @XJCFSIM DEST,'XIPADDR=13.245.113.77,XLPRQNAM=PASSTHRU,',
*
               'CLUSTRTB=DEFAULT4517,'
PAYROLL    @XJCFSIM DEST,'XIPADDR=13.245.112.106,XLPRQNAM=PORT1,',
D9100      @XJCFSIM DEST,'IP=13.245.112.107,PORT=9100,'
D9200      @XJCFSIM DEST,'IP=13.245.112.107,PORT=9200,'
MX135      @XJCFSIM DEST,'HOST=D135.example.net,QNAME=LCDS,'
```

PA13158 / TA4135 – New EMAIL Functionality

XPAF has been enhanced to allow the emailing of documents processed with the TCPMODE=BATCH or RENAME options:

New and updated printer profile parameters

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

New value of YES has been added to TCPMAIL

TCPMAIL (Printer profile parameter)

Description   Specifies whether a document will be sent as an email attachment in addition to the printer as specified by the TCPMODE and related printer profile parameters.

Scope   Affects processing of all types of data streams sent to all types of printers using the TCP/LPR protocol, BATCH, or RENAME feature.

Syntax   TCPMAIL={BOTH | MAILONLY | YES]

where

BOTH	The document be sent to both the user (as an e-mail attachment) and processed according to the TCPMODE= parameter.
MAILONLY	The document will only be sent to the user as an e-mail attachment.
YES	The document will only be sent to the user as an e-mail attachment.

Default   NONE

Example   TCPMAIL=YES

Overrides   None.

PA13160 / TA4135 – XQNAME New Enhanced DJDEs

The "Enhanced DJDE commands section" has been updated with the following information:

XLPRCLASS

Description	Specifies a one to 152 character string to be used as "Class" data in the LPR Control File when sending the converted document to a printer via direct LPR, TCPMODE=TCPLPR with TCPCONNECT=CLOSE.
Scope	Affects processing of all LCDS documents transformed to PCL or PDF.
Syntax	@@@DJDE C XLPRCLASS=*classinfo*
	where
	classinfo The 1- to 152 character LPR class information.
Default	None.
Example	@@@DJDE C XLPRCLASS=(Media=:drilled)
Overrides	None.
Related Information	To use the specified queue name with the LPR protocol, TCPMODE=TCPLPR, you must specify TCPCONNECT=CLOSE in the printer profile.

XQNAME

Description	Specifies a one to 50 character name to be used as the LPR Queue name when sending the converted document via direct LPR, TCPMODE=TCPLPR with TCPCONNECT=CLOSE.
Scope	Affects processing of all LCDS documents transformed to PCL or PDF.
Syntax	@@@DJDE C XQNAME=*queuename*
	where
	queuename The 1- to 50 character queue name.
Default	None.
Example	@@@DJDE C XQNAME=CHECK-HOLD
Overrides	None.
Related Information	To use the specified queue name with the LPR protocol, TCPMODE=TCPLPR, you must specify TCPCONNECT=CLOSE in the printer profile.

PA13162 / TA4135 – New EMAIL Functionality

XPAF has been enhanced to allow control over the body text of an email, when EMAILTYPE(TEXT) has been specified in the Email address table :

New and updated printer profile parameters

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

New printer profile parameters:

      EMAIL_BODY_TEXT_MEMBER and

      EMAIL_BODY_HTML_MEMBER

have been added.

EMAIL_BODY_TEXT_MEMBER (Printer profile parm.)

Description   Specifies the text source member to be used when creating the body of an email when sending the document as an email attachment. This member must reside in the dataset pointed to by the LPRDSN printer profile parameter.

Scope   Affects processing of all types of data streams sent as an attachment to a TEXT type email.

Syntax   EMAIL_BODY_TEXT_MEMBER=*member-name*

where

member-name   The one to eight character member name

Default   NONE

Example   EMAIL_BODY_TEXT_MEMBER=EMAILTXT

Overrides   None.

Related Information   The text source member can use the variable substitution method as documented in the "Using the insertion feature to add PJL and job ticket commands" section of the XPAF User Documentation. A new variable %EOL has been added that will insert an End-of-line sequence in the generated text. An example of the email text member:

```
Dear %USER,%EOL
%EOL
Job %JOBNAME(%JOBNO) has been processed by XPAF printer
 %PRINTER.%EOL
%EOL%EOL
See the attached document.
```

EMAIL_BODY_HTML_MEMBER (Printer profile parm.)

Description   Specifies the HTML source member to be used when creating the body of an email when sending the document as an email attachment. This member must reside in the dataset pointed to by the LPRDSN printer profile parameter.

Scope   Affects processing of all types of data streams sent as an attachment to an HTML type email.

Syntax   EMAIL_BODY_HTML_MEMBER=*member-name*

where

member-name   The one to eight character member name

Default   NONE

Example   EMAIL_BODY_HTML_MEMBER=XSMTPCTL

Overrides   None.

Related Information   The html source member can use the variable substitution method as documented in the "Using the insertion feature to add PJL and job ticket commands" section of the XPAF User Documentation. A sample HTML source member, XSMTPCTL, is provided in XPFSAMP. This parameter is synonyms with the existing XSMTPCTL printer profile parameter.

PA13164 / TA4192 – TCPABORT= Documentation update

XPAF has been enhanced to allow the emailing of documents processed with the TCPMODE=BATCH or RENAME options:

New and updated printer profile parameters

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

TCPABORT (Printer profile parameter)

Description   This parameter provides the option of permitting or stopping the submission of the Batch JCL, or whether or not the document should be attached in an e-mail, of a print job that is aborted by XPAF.

Scope   Affects processing of all types of data streams sent via the TCP/IP Batch JCL feature (TCPMODE= BATCH or LPR) or as an e-mail attachment.

Syntax   TCPABORT={TRANSMIT | NOTRANSMIT}

where

| TRANSMIT | Permits the submission of the batch job to process the resulting document that includes errors or attaches the document to the email. |
| NOTRANSMIT | Stops the submission of the batch job to process the resulting document that includes errors or does not attach the document to the email. |

Default TRANSMIT

Example TCPABORT=NOTRANSMIT

PA13167 / TA4268 – Updated initialization parameter

Chapter 42 "Initialization parameters" in *Section Five: XPAF Parameter and Keyword Reference* **has been updated with this information.**

Minimum value for SUBTASKS has been increased to 132.

SUBTASKS (initialization parameter)

Description For XOAF and XOSF processing, defines the maximum number of subtasks that can be active concurrently.

Scope Affects processing of all types of data streams sent to all types of printers

Syntax SUBTASKS=value

where

value   Maximum number of subtasks that can be active concurrently. This value must provide for the number of auto-started subtasks (currently six) plus the number of printers that will be started. The numeric value range is 8-132.

Default For XOAF the default is 10, for XOSF the default is 40.

Example SUBTASKS=80

Overrides None.

Related information The SUBTASKS parameter will determine the maximum number of printers (FSAs) you can have active under the FSS. XOSF reserves four sub tasks for internal use, so the maximum number of FSAs allowed will be four less than the SUBTASKS value.

The following new message has been added

XDI3465E

XDI3465E **PRINTER (printer name) FSA ID (fsa id) HAS EXCEEDED THE MAXIMUM (number) PRINTERS SUPPORTED.**

Explanation: The named printer exceeds the maximum number of subtasks that is currently supported.

System Response: The named printer is not started. All other valid printers in the address space continue normal functions.

User Action: Either increase the value of the SUBTASKS initialization parameter or create an additional FSS and move or add the named printer to the new FSS.

Note: Although XOSF can support a theoretical maximum of 128 printers per FSS. Storage constraints may prevent that many printers from running concurrently.

PA13876 / TA4234 – Documented printer profile parameter

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

AFPAQNAME

Description Specifies the LPR queue to send AFP data when sending data to an Emtex VIP Server.

Scope Affects processing of AFP data streams sent via LPR to an Emtex VIP server.

Syntax AFPAQNAME=afp1

. **Default** None.

Overrides None.

LCDSQNAME

Description Specifies the LPR queue to send LCDS data when sending data to an Emtex VIP Server.

Scope Affects processing of LCDS data streams sent via LPR to an Emtex VIP server.

Syntax LCDSQNAME=lcds

. **Default** None.

Overrides None.

Related Information LCDSQNAME is synonymous with the old undocumented parameter DJDEQNAME.

PA13180 / TA4352 – New PCL Socket Header Functionality

XPAF has been enhanced to allow the generation of a FreeFlow Print Server/DocuSP socket header when sending PCL or PDF documents to a FreeFlow Print Server or DocuSP device over a TCP/IP socket connection (TCPMODE=TCPIP).

To enable this feature, you must specify an LPRQNAME and specify Generate_Socket_Header=Y in the printer profile table.

New printer profile parameter

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

Generate_Socket_Header (Printer profile parm.)

Description Specifies whether a FreeFlow Print Server socket header should be generated when sending PCL data the text source member to be used when creating the body of an email when sending the document as an email attachment. This member must reside in the dataset pointed to by the LPRDSN printer profile parameter.

Scope Affects processing of all types of data streams sent as an attachment to a TEXT type email.

Syntax Generate_Socket_Header={Y | **N**}

where

Y Generate a socket header

N Do not generate a socket header

Default N

Example Generate_Socket_Header=Y

Overrides None.

Related Information Since the FreeFlow Print Server socket header requires a queue name to be specified in the header, a queue name must be specified via the LPRQNAME printer profile parameter. The document name that is displayed on the FreeFlow Printer Server GUI is controlled by the XTCPJNAM parameter.

PA13181 / TA4352 – New message XTC414FE

The following new message has been added:

XTC414FE

XTC414FE **member name BUFFER CAPACITY EXCEEDED.**

Explanation: When processing a member from the LPRDSN for variable substitution, the amount of data that can be contained in the variable substitution area buffer has been exceeded.

System response: The variable substitution process is terminated and the amount of data processed so far is returned to the higher level program for processing. Unexpected results may occur.

User action: Contact Xerox Technical support.

PA13189 / TA5099 – New LCDS CC conversion option

XPAF has been enhanced to allow spacing carriage control to be honored for DJDE records. This feature allows compatibility for applications that were generate for an offline tape environment, where the ANSI Carriage Control on the input data is not converted into Machine Carriage Control.

New printer profile parameter

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

LCDS_Honor_DJDE_Spacing_CC (Printer profile parm.)

Description Specifies whether a XPAF will honor spacing carriage control on DJDE records when converting a document to PCL or PDF.

Scope Affects processing of LCDS data streams converted to PCL or PDF

Syntax LCDS_HONOR_DJDE_SPACING_CC={Y | **N**}

where:

Y Honor spacing carriage control for DJDE records

N Do not honor spacing carriage control for DJDE records

Default N

Example LCDS_HONOR_DJDE_SPACING_CC=Y

Overrides None.

PA13198 / TA5141 – New LCDS conversion option

XPAF has been enhanced to allow blank lines to be spaced with either the current line spacing value (as per the old Xerox J11 printers) or the line spacing of the font specified via font index character (as per the current FreeFlow Print Server LCDS Decomposer) when converting LCDS documents to PCL or PDF.

New printer profile parameter

Chapter 41 "Printer profile parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

LCDS_OVERPRINT_MERGE_Type (Printer profile parm.)

Description   Specifies whether XPAF will honor the font index on completely blank records when OVERPRINT=MERGE has been specified.

When OVERPRINT=MERGE and font indexing is in effect, Xerox J11 printers will ignore the font index on completely blank records and use the line spacing of the previous line as the spacing for the blank line. The FreeFlow Print Server will use the line spacing of the font specified by the font index character for the blank line.

This difference in behavior may result in differences in output.

Use the LCDS_OVERPRINT_MERGE_Type parameter to specify the behavior you want to use when converting LCDS documents to PCL or PDF.

Scope   Affects processing of LCDS data streams converted to PCL or PDF

Syntax   LCDS_OVERPRINT_MERGE_Type ={<u>F</u>FPS | **<u>J</u>11**}

where:

FFPS   Use the line spacing of the font specified by the font index of completely blank lines when OVERPRINT=MERGE is specified.

J11   Ignore the font index and use the current lines spacing for

Default   J11

Example   LCDS_OVERPRINT_MERGE_TYPE=FFPS

Overrides   None.

PA55462 / TA5141 – New Enhanced DJDE XSPLIT option.

The XSPLIT enhanced DJDE command has been updated to support a new option "BOTTOM" to indicate that a split should occur at the bottom of the current page when converting LCDS documents to PCL or PDF.

XSPLIT

Description   Specifies that the document should be split based on the specified criteria.

Scope   Affects processing of all LCDS documents transformed to PCL or PDF.

Syntax	@@@DJDE C XSPLIT={NEWFRONT | RPAGE | TOP | <u>BOT</u>TOM | OFFSET | OFF}	

where

NEWFRONT *Specifies that the document should be split when a SIDE=NUFRONT condition is detected*

RPAGE Specifies that the document should be split when an RPAGE condition occurs,

TOP Indicates that the document should be split at the top of the current page. The current page marks the first page of a new segment.

<u>BOTTOM</u> Indicates that the document should be split at the bottom of the current page. The current page marks the last page of the current segment

OFFSET specifies that the document should be split when an OFSFET occurs

OFF Turns off document splitting in the current document..

Default None.

Example @@@DJDE C XSPLIT=TOP

Overrides None.

Related Information Refer to the ""Splitting LCDS Documents" section of the XPAF User Guide for more information.

PA13187 / TA5218 – New message XAM7601F

The following new message has been added:

XAM7601F

XAM7601F OVERLAY PAGE SEGMENT CONSOLIDATION FAILED. SEE LOG FOR DETAILS.

Explanation: An error was detected when attempting to convert an IBM AFP Overlay, which contains references to more than 16 images, to a Xerox form (.FRM). XOSF will attempt to consolidate all the images used in the Xerox form into a single image. Refer to the XOSFLOG for other message that indicate the cause of the failure.

System response: The overlay to form conversion is terminated and the document is aborted.

User action: Attempt to resolve the other errors reported in the XOSFLOG. If that does not resolve the problem, contact Xerox Technical support.

PA13202 / TA5253 – Updated initialization parameter

Chapter 42 "Initialization parameters" in *Section Five: XPAF Parameter and Keyword Reference* **has been updated with this information.**

New option "JES2" for the BANSTYLE parameter.

BANSTYLE (initialization and printer profile parameter)

Description   Identifies the banner page style to be produced by XPAF when header, dataset, or trailer pages are requested. This value also is available in user exits 02 and 05 for constructing customized banner pages.

Scope   Affects processing of all types of data streams sent to centralized printers. Also affects processing of all types of data streams sent to decentralized and PCL-capable printers if you have changed the SETC statement in sample user exit XUXIT05B from 'REMOTE' to 'LOCAL'.

Syntax   BANSTYLE=style-name

where

style-name   The 1- to 4-character user-defined banner page style name used in user exits 02 and 05. The name can include alphanumeric or national ($, #, @) characters. The first character must be an alphabetic or national character. The three system-defined banner page style names are JES, JES2 and XPAF. JES specifies the JES banner page style, JES2 specifies emulates the newer IBM JES2 banner page by placing the detail box frame in column 1 (rather than column 15) and XPAF specifies the XPAF banner page style. For BANSTYLE=JES, only applies to JES2 and JES3 systems at version 4.2 or higher. If BANSTYLE=NONE is specified, no banner pages will be produced.

Default   XPAF

Example   BANSTYLE=JES2

Overrides   You can override this parameter by using the BANSTYLE printer profile parameter or extended JCL keyword. You also can override this parameter by specifying a value in the XDIBBANS field in @XDIB in user exit 02.

PA13214 / TA5316 – New LCDS Splitting options

XPAF has been enhanced to allow both a name field and a sequence number to be specified as the file name for a split PDF document. In addition, a new trigger parameter, SEQUENCE_PREFIX, has been added that allows for a one to eight character divider to be specified between the name and the sequence number

New trigger option

The trigger file option table has been updated with the following information:

SEQUENCE_PREFIX="string"	(Optional) Specifies a string that is prefixed to the segment name extracted from the input record. Where string is a 1 to 8 character string Example:

`SEQUENCE_PREFIX="_SEQ#"` The string "_SEQ#" Is added prior to the sequence number that is generated for this segment

Points to Note

It is now possible to specify both a name and a sequence number that is used to generate the segment name. In addition, an optional sequence number prefix can be specified that will be used to separate the name and the sequence number.

For example, the following trigger definition file:

```
*
* PDF SPLITTING TRIGGER DEFINTION FILE
*
TRACE=NO
TRIGGER="POLICY NO."
STARTLINE=1
ENDLINE=10
TCOL=1
NAMESTART=12
NAMELENGTH=5
NAMEPREFIX="/u/mkean/xpaf/"
NAMESUFFIX=".PDF"
SEQUENCE_NUMBER_DIGITS=5
SEQUENCE_PREFIX="_"
ENCODING=EBCDIC
```

Will produce segment file names of the form "/u/mkean/xpaf/AAAAA_00001.pdf"

PA13221 / TA6056 – New DUPLEXSW functionality

The DUPLEXSW Initialization parameter, printer profile parameter and extended JCL keyword have been updated to allow a new option DUPLEXSW=Mixed.

When DUPLEXSW=Mixed has been specified, XOSF, rather than remain in a single plexing mode for the entire set of pages printed with the same copygroup, will format each page with the duplex option that matches the desired plexing mode of each page, regardless of the duplex/simplex setting in the active copygroup. This has the effect of causing the printer to switch between simplex and duplex, as required, which may affect print performance, but has the benefit of not creating an impression for blank back sides of a simplex page referenced in a duplex copygroup.

Chapter 36 "Printing AFP documents" in "*Section Four: Printing Documents with XPAF"* has been updated with this information:

Duplex mode printing:

For AFP documents, the duplex mode is set by the FORMDEF. However, you can use extended JCL keywords to override the FORMDEF specification:

For documents originally formatted for an IBM 3800-type printer, specify the XDUPLEX extended JCL keyword. This keyword applies for documents that have only simplex copy groups within a FORMDEF.

For example, if you specify XDUPLEX=YES, simplex documents originally formatted for an IBM 3800-type printer will be printed on both sides of the paper.

For all other AFP documents sent to centralized printers, specify the DUPLEXSW initialization parameter, printer profile parameter, or extended JCL keyword. This keyword determines whether and how the plexing mode on the printer switches between simplex and duplex.

For example, if you specify DUPLEXSW=Y and the print job has copy groups that specify both simplex and duplex in the FORMDEF, the printer will clear the paper path each time the plexing mode changes between simplex and duplex.

If you specify DUPLEXSW=N and the print job has copy groups that specify both simplex and duplex in the FORMDEF, the printer does not switch plexing modes between simplex and duplex. In other words, the entire job will print in duplex mode. For any copy group that specifies simplex, a blank page is sent for the back of the page.

If you specify DUPLEXSW=M, each page will be printed with the plexing mode relevant for that page, switching between simplex and duplex as required. This mode may cause a severe performance impact on printers that need to cycle down when switching between simplex and duplex. This mode is best used with dual engine printers such as the Xerox Nuvera 288.

Chapter 42 "Initialization parameters" in *Section Five: XPAF Parameter and Keyword Reference* has been updated with this information.

DUPLEXSW (initialization and printer profile parameter)

Description   For XOSF processing, indicates whether and how the printer's plexing mode will switch between simplex and duplex

Scope   Affects processing of page-formatted and AFP data streams sent to centralized printers.

Syntax   DUPLEXSW={M | N | Y}

where

Y   Switches the plexing mode on the printer between simplex and duplex. For example, if a document is simplex for the first few pages and duplex for the remaining pages, specify DUPLEXSW=Y to have the printer switch from simplex mode printing to duplex mode printing.

N   Does not switch the plexing mode on the printer between simplex and duplex. XPAF searches the data stream to determine if DUPLEX is specified in any of the copy groups (for AFP documents) or copy modifications (for page-formatted documents). If it is, the entire document will be printed in duplex mode. Any simplex copy groups or copy modifications will be printed with blank back pages. If DUPLEX is not specified, the entire document is printed in simplex mode.

M   Switches the printer between simplex and duplex and also print simplex pages in a DUPLEX copygroup in simplex mode, rather than in DUPLEX with a SIDE=NUFRONT.

Default   N

Example   DUPLEXSW=Y

Overrides   You can override this parameter by using the DUPLEXSW printer profile parameter or extended JCL keyword.

DUPLEXSW extended JCL parameter

The DUPLEXSW extended JCL keyword has been updated:

DUPLEXSW

Description   Indicates whether and how the printer's plexing mode will switch between simplex and duplex.

Scope   Affects processing of page-formatted and AFP data streams sent to centralized printers.

Syntax   //REPORT OUTPUT DUPLEXSW={MIXED | YES | NO}

where

YES   Switches the plexing mode on the printer between simplex and duplex. For example, if a document is simplex for the first few pages and duplex for the remaining pages, specify DUPLEXSW=Y to have the printer switch from simplex mode printing to duplex mode printing.

NO   Does not switch the plexing mode on the printer between simplex and duplex. XPAF searches the data stream to determine if DUPLEX is specified in any of the copy groups (for AFP documents) or copy modifications (for page-formatted documents). If it is, the entire document will be printed in duplex mode. Any simplex copy groups or copy modifications will be printed with blank back pages. If DUPLEX is not specified, the entire document is printed in simplex mode.

MIXED   Switches the printer between simplex and duplex and also print simplex pages in a DUPLEX copygroup in simplex mode, rather than in DUPLEX with a SIDE=NUFRONT.

Default   None.

Example   //REPORT OUTPUT DUPLEXSW=M

Overrides   This keyword overrides the DUPLEXSW initialization and/or printer profile parameters.

PA13224 / TA6119 – New message

The following new messages have been added:

XTW415AF

XTW415AF   THE RENAME DATASET *name* **IS RESERVED BY ANOTHER PROCESS**

Explanation: When attempting to rename a dataset, XOSF has failed to obtain an exclusive enqueue for the resource, indicating that the target dataset is in use by another XPAF process.

System response: The rename fails and the output is kept in the original dataset as documented by subsequent message XTW4158F, and the document is aborted.

User action: Check the name of the rename dataset to ensure that it is correct, if so, rerun the job at a time when only one XOSF printer is using the rename dataset.

XCD6839W

XCD6839W   FEED *feed* NOT FOUND IN CLUSTER MAPPING TABLE *cmaptable*. THE DEFAULT TRAY ASSIGNMENT WILL BE USED.

Explanation: During conversion of an LCDS document, to any output format, XOSF has encountered a request for a tray feed, *feed*, that is not in the cluster mapping table *cmpatable*.

System response: The default entry (the first entry in the table) in the cluster mapping table will be used for the tray assignment. Processing continues.

User action: Add the missing feed assignment to the cluster mapping table.

PA55468/TA6217 – AFP Document Splitting (New Feature)

PA55468 provides the following new features:

Feature descriptions

XPAF has been enhanced to allow an AFP document to be broken up into multiple segments or subsets. The primary purpose of this feature is to enable a large report containing information on multiple accounts to be broken up into individual output files.

When used with the PDF transform, a PDF file for each subset is created.

For example, a job currently prints account statements at the end of the month. The single job is a 10,000 page report that contains statements for 1,000 individual accounts. Normally, when the job is converted by XPAF to PDF, a single 10,000 page PDF file is created containing all 1,000 accounts. With the AFP splitting feature, 1,000 individual PDF files are generated. Each PDF file contains only those pages associated with the account in question.

Naming multiple segments from a single job

To uniquely name each segment, XPAF uses the string stored in the Xerox Output Descriptor Control Block, @XODB, Mail File name field, XODBMFNM. XODBMFNM can be set via the MAILFILE IBM extended JCL keyword, XPAF User Exits, or a field from the input record defined by the trigger file.

The XODBMFN value can then be used to specify:

The name of an email attachment

The document name when the file is LPR'd to an LPD server

The dataset name to rename the temporary dataset to be saved on DASD

As an input parameter to a BATCH JCL/REXX invocation for storing the document on an FTP server

Splitting a document

To split an AFP document, you must use a trigger file that describes what XPAF should look for in the input data that marks the end of one segment and the beginning of the next. This can be some constant text, such as "Page 1 ", or a change in text following a constant string, such as "Account #:" In addition, you also specify how XPAF should name the individual files, whether you use information extracted from the input data, such as the actual account number, a simple sequence number, or a combination of the two.

Using the Trigger File

This section includes information on how to split an AFP document using a trigger file. The trigger file describes how an input record is tested to determine if the document should be split and the name for the segment

Enabling document splitting

Document splitting is enabled by specifying

FEATURE=SPLITDOC

In the Printer Profile Table, PPT, for each printer that needs to split documents.

Specifying that a document is to be split

The details on how an AFP document is to be split is defined in, what is referred to as a "Trigger" file.

The trigger file is a member of a LRECL=80, RECFM=FB, PDS or PDS/E that is referenced by the TRIGGERA DD statement in the XOSF started task procedure.

The member name used is the same name as the job name being processed (or is specified by the XSPLTMEM XPAF extended JCL keyword)

Specifying the trigger file

Create a member with the name of the job you wish in the TRIGGER DD dataset to specify the following trigger options:

Option	Description
* in column 1	Comment
TRIGGER="trigger value"	Specifies the string that is to be matched with the input data record to determine if the input record is a trigger record. The "?" character can be used as a mask and will match any character in the input record. Example: `TRIGGER="00001 ????? EFT"`

	The input record, at the offset specified by the TCOL value is compared to the trigger string. The first six characters must be "00001 ". The next 5 characters are ignored, then the next four characters must be " EFT"
TRIGGER=X"hex string"	Specifies that the trigger value is specified as a hex string. This notation is used to define a trigger value for Metacode input Example: `TRIGGER=X"062100046800004D"` The input record, at the offset specified by the TCOL value, is compared to the trigger string.
STARTLINE=n	Specifies the starting line number for comparing the trigger value to the input record. Where n is an integer 0 to 32767 Example: `STARTLINE=5` The lowest line number to search for a trigger record is line 5 Default: STARTLINE=0
ENDLINE=n	Specifies the ending line number of the input record for comparing to the trigger string. Where n is an integer 0 to 32767 Example: `ENDLINE=10` The highest line number to search for a trigger string is line 10 Default: The default value of ENDLINE is the value used for start line
TCOL=n	Specifies the starting column, or offset, in the input record to start comparing to the value. The carriage control byte is not included in the TCOL calculation. The first byte of the input record is considered to be column 0 Where n is an integer 0 to 32767 Example: `TCOL=153` Compare the input record, starting in column 153 to the trigger value.
NAMESTART=n	Specifies the starting column, or offset, in the input record to the start of the string to be used in creating the segment name

	The carriage control byte is not included in the NAMESTART calculation. The first byte of the input record is considered to be column 0
	Where n is an integer 0 to 32767
	Example:
	`NAMESTART=138`
	The segment name starts in column 138 of the input record.
NAMELENGTH=n	Specifies the length of the string, starting in column NAMESTART to be used for the segment name
	Where n is an integer 1 to 32767
	Example:
	`NAMELENGTH=24`
	24 bytes of the input record, starting at the column specified by NAMESTART, will be used in creating the segment name.
NAMEPREFIX="string"	Specifies a string that is prefixed to the segment name extracted from the input record.
	Where string is a 1 to 20 character string
	Example:
	`NAMEPREFIX="PAYROLL."`
	The string "PAYROLL." Is added to the start of the segment name.
NAMESUFFIX="string"	Specifies a string that is suffixed to the segment name extracted from the input record.
	Where string is a 1 to 20 character string
	Example:
	`NAMEPREFIX=".PDF"`
	The string ".PDF" is added to the end of the segment name.
CHANGESTART=n	Specifies the start column of the portion of the input record that is tested to see if a change has occurred. The contents of the "change" portion of the input trigger record are compared to the value found on the previous input trigger record. If the two values are different, a new segment will be created.
	Where n is an integer from 0 to 32767
	Example:
	CHANGESTART=150
	The string starting in column 150, for a

	length specified by CHANGELENGTH, is used to detect if the segment has changed.
	Default: If neither CHANGESTART nor CHANGELENGTH have been specified, NAMESTART and NAMELENGTH will be used.
CHANGELENGTH=n	Specifies the length of the portion of the input record that is tested to see if a change has occurred. The contents of the "change" portion of the input trigger record are compared to the value found on the previous input trigger record. If the two values are different, a new segment will be created.
	Where n is an integer from 1 to 32767
	Example:
	CHANGELENGTH=7
	The string, starting in the column specified by CHANGESTART, for a length of 7 bytes is used to detect if the segment has changed
SPLIT_ON_SAME_NAME={Y | <u>N</u>}	Indicates whether or not a new segment should be created if the name found in the trigger string is the same as the previously matched trigger
	Example:
	SPLIT_ON_SAME_NAME=Y
	To uniquely name segments, that use the same name in the trigger file, use the SEQUENCE_NUMBER_DIGITS trigger file parameter
SEQUENCE_NUMBER_DIGITS=n	Specifies the number of digits to be used for the segment sequence number which will be used as the variable part of the segment name. Segment numbers will be left padded with zeroes to generate the required number of digits.
	Where n is an integer 1 to 8
	Example:
	SEQUENCE_NUMBER_DIGITS=5
	Specifies that five digits will be used as the variable part of the segment name. The digits used will be 00001, 00002, 00003, etc.
	Default: None.
SEQUENCE_PREFIX="string"	(Optional) Specifies a string that is prefixed to the segment name extracted from the input record.

	Where string is a 1 to 8 character string
	Example:
	`SEQUENCE_PREFIX="_SEQ#"`
	The string "_SEQ#" Is added prior to the sequence number that is generated for this segment
ENCODING={ASCII | <u>EBCDIC</u>}	Specifies the character encoding of the name segment in the input record.
	EBCDIC is traditionally used with AFP data.
	ASCII is specified if the input data is in ASCII.
	If ENCODING=ASCII is specified, the string obtained from the input record will be translated from ASCII to EBCDIC
BLANKNAME={<u>NO</u> | YES}	Specifies whether the name segment of the input trigger record should be replaced by blanks, so the name does not appear in the output.
	Default: BLANKNAME=NO
TRACE={ALL | FILE | LINES | MATCHED | YES | <u>NO</u>}	Specifies whether or not trace messages will be generated when the job is processed.
	Where:
	TRACE=FILE, Echo trigger file records to the log. Only records after the TRACE=FILE will be echoed. If used, it is recommended that TRACE=FILE is the first record in the trigger file.
	TRACE=LINES, Issue a message indicating the logical line number and input record number of the record being traced.
	TRACE=MATCHED, only log information on records that match the trigger record.
	If TRACE=YES is specified, additional messages will be issued for each record that resides in the range of lines specified by STARTLINE/ENDLINE and is long enough to contain the trigger and name strings.
	TRACE=ALL, is equivalent to specifying all TRACE options.
VIEWROTATION=L | P	Specifies the viewing rotation for each segment. This parameter can be used to correctly set the viewing rotation of Metacode data streams converted to PDF.
	Default: None. The rotation is determined

	by the orientation set in the LCDS data stream. For Metacode documents, where the orientation is always Landscape, the orientation is determined by the fonts used on the page.
INCLUDEBLANKPAGES=NO | YES	Specifies whether or not XPAF should generate blank pages when required to maintain the correct side for duplexing, for example, when a DJDE SIDE=NUFRONT is encountered for a page that would otherwise be printed on the back of a sheet.
	This parameter can be used blank pages from LCDS documents converted to PDF.
	Default: The value specified by the Printer Profile parameter FEATURE=SUPBLNKPG
	Example: INCLUDEBLANKPAGES=NO

Trigger File example for an AFP data stream:

In the following example, the Line mode AFP mode data is a set of account statements with the following properties:

- The first page of each statement has the account number on line 8 (Channel 1 has been assigned to line 2)

- The account number is a seven-digit unique identifier starting in column 19

- The account number is preceded by the text "Account No." which starts in column 7.

   Note: The ISPF column display starts with the first character of a record as column one. The trigger column number starts with the first character at offset zero. In addition, if the dataset is formatted with carriage control, the first character, in the ISPF display column one, is the carriage control character, so the data starts in ISPF column two. To convert the ISPF column number to a trigger column value, subtract two from the ISPF column number.

```
=COLS> ----+----1----+----2----+----3----+----4---
       1   *0987654321*


           PADDY O'FURNITURE
           27 BBQ LANE
           GHOST TOWN   AK 99999-5432

              Account No. A123456
```

The following trigger file is used to split the data:

```
*
* PDF SPLITTING TRIGGER DEFINTION FILE
```

```
*
TRACE=NO
TRIGGER="Account No."
STARTLINE=8
TCOL=7
NAMESTART=20
NAMELENGTH=7
NAMEPREFIX="TCX.G"
NAMESUFFIX=".PDF"
ENCODING=EBCDIC
```

Using the trigger file with the data defined above through the PDF transform will result in a PDF file called TCX.GA123456.PDF.

You can include an optional sequence number in the naming of the segments. For example, the following trigger definition file:

```
*
* PDF SPLITTING TRIGGER DEFINTION FILE
*
TRACE=NO
TRIGGER="POLICY NO."
STARTLINE=1
ENDLINE=10
TCOL=1
NAMESTART=12
NAMELENGTH=5
NAMEPREFIX="/u/mkean/xpaf/"
NAMESUFFIX=".PDF"
SEQUENCE_NUMBER_DIGITS=5
SEQUENCE_PREFIX="_"
ENCODING=EBCDIC
```

Will produce segment file names of the form "/u/mkean/xpaf/AAAAA_00001.pdf"

Points to Note

- The line number is actually the LND number in the active data map in the PAGEDEF. The Line/LND number is based on the carriage control in use when the job is processed, rather than the record number in the dataset. For example, if channel 1 has been assigned to line 5, then the record with a "Skip to Channel 1 and Print" will be on Line 5.

- An input record must be greater than or equal to the minimum length required to contain both the trigger string and the name string before it is tested for a match.

- When SPLIT_ON_SAME_NAME=N, the default, has been specified, the name of the segment is saved when a trigger record is found. The name on the next matching trigger record is compared to the previous name. Only if the names differ is a new segment created.

Message updates

The following new messages have been added:

XAU4155W

XAU4155W   **MEMBER *memname* WAS NOT FOUND IN THE AFP TRIGGER LIBRARY. THE DOCUMENT WILL NOT BE SPLIT.**

Explanation: A printer that has the splitting feature enabled, FEATURE=SPLITDOC, cannot find the AFP trigger file when processing an AFP document.

System response: Processing continues. The document will not be split.

User action: Create a trigger file for the specified jobname in the AFP trigger dataset, or use the XSPLTMEM extended JCL keyword to specify an existing trigger file.

XAU4156W

XAU4155W   **UNABLE TO OPEN THE AFP TRIGGER LIBRARY. THE DOCUMENT WILL NOT BE SPLIT.**

Explanation: A printer that has the splitting feature enabled, FEATURE=SPLITDOC, cannot open the AFP trigger library, referenced by the TRIGGERA DD JCL statement.

System response: Processing continues. The document will not be split.

User action: Check to make sure the XOSF Started Task has the AFP trigger library allocated using the TRIGGERA DD statement.

PA13233 / TA6238 – Messages updated

The following message has been updated:

XCD6402E

XCD6402E   **COULD NOT command ITEM table entry IN TABLE table name operation. THM RC=X'return code'**

Explanation: This message is issued for diagnostic purposes. Operation identifies the type of processing that was being performed when the error occurred. The specified table entry was not found in the specified table.

System response: Dependent on the severity of the error.

User action: Correct the table entry in the specified table:
• The named paper name entry should be corrected in the named paper name table.
• The named cluster name entry should be corrected in the named cluster mapping table.
• The named character mapping table entry should be corrected in the XPAFA2A table.
• The named font name entry should be corrected in the XPAFXFI table.

Note: If this message is received indicating that the XPAFXFI table entry is missing for a recently loaded font, shutdown and restart the XOSF FSS to pick up the XPAFXFI entry.

PA13242 / TA6322 – Messages added

The following messages have been added:

XRD6290E

XRD6290E   **THE FOLLOWING ERROR(S) OCCURED DURING PROCESSING OF A *object*:**

Explanation: An error occurred when processing an AFP object type of *object*. Additional messages follow

System response: Dependent on the severity of the error.

User action: Check the XOSFLOG for additional messages

XRD6291E

XRD6291E   *message-text*

Explanation: An error occurred when processing either an AFP Bar Code or Graphic. This is an internal error caused by a condition not handled by the conversion routines.

System response: Dependent on the severity of the error.

User action: Contact Xerox Technical support.