z/OS
Version 2 Release 4

Infoprint Server Messages and Diagnosis

Note

Before using this information and the product it supports, read the information in "Notices" on page 489.

This edition applies to Version 2 Release 4 of z/OS (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

Last updated: 2019-07-02

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About this publication

This publication helps you troubleshoot difficulties with Infoprint Server, which is a separately priced feature of z/OS®. This publication applies to z/OS Version 2 Release 4.

This publication helps you use the messages and codes that Infoprint Server displays. It also helps you do diagnostic procedures to isolate problems and work with IBM® Support Center service representatives.

Tip for system automators: Any new, changed, or deleted messages can affect your installation's automation package. Make sure that your installation's automation package is updated with these changes. For details about message changes, see *z/OS Release Upgrade Reference Summary*.

Who should read this publication

The list of messages and codes can be used by anyone who knows how to maintain and operate Infoprint Server or its components or the printers that work with Infoprint Server.

Use the diagnostic information in this publication if you are a system programmer, a system analyst, or an application programmer responsible for diagnosing problems in Infoprint Server.

This publication assumes that you are familiar with TCP/IP, JES, and z/OS job control language (JCL).

How to read syntax diagrams

The general notations that this document uses in syntax diagrams are explained here. For ease of reading, this document breaks some examples into several lines. However, when you enter a command, enter it all on one line. Do not press **Enter** until you type the entire command.

Table 1. Syntax notation				
			For example:	
This notation:	**Means:**	**You enter:**	**This document shows:**	**You enter:**
Apostrophes	String	As shown	`SEND '123'`	`SEND '123'`
Bold	Keyword	As shown	`CLASS`	`CLASS`
Braces	List of items	The braces and one or more items from the list	`{GT10 GT12}`	`{GT10 GT12}`
Brackets	Optional item	One item or no items	`aopstop [now]`	`aopstop`
Comma	Separator	As shown	`DISPLAY C,K`	`DISPLAY C,K`
Ellipsis	Repeatable item	One or more items	*`filename ...`*	`file1 file2`
Lowercase	Item the system defines	As shown, in lowercase	`lp`	`lp`
Lowercase italics	Variable item	A value for the item	`MOUNT` *`devnum`*	`MOUNT A30`
Parentheses	List of items	The parentheses and one or more items from the list	`(GT10,GT12)`	`(GT10,GT12)`

			For example:	
This notation:	**Means:**	**You enter:**	**This document shows:**	**You enter:**
Special characters	Various symbols	As shown	`%filter-options`	`%filter-options`
Underline	Default	The item, or you can omit it	`K T REF`	`K T`
Uppercase	Item the system defines	As shown, in uppercase	`PRMODE`	`PRMODE`
Vertical bar	UNIX pipe (the output of the first is input to the second)	As shown	`ls | lp`	`ls | lp`
Vertical bar in braces	Required choice	One item	`{NOW|FOREVER}`	`FOREVER`
Vertical bar in brackets	Optional choice	One item or no items	`[PORTNO| PRTQUEUE]`	`PORTNO`

Table 1. Syntax notation (continued)

Where to find more information

The following information describes where to find information that is related to z/OS and Infoprint Server.

Preventive Service Planning information

Before you install Infoprint Server, review the current Preventive Service Planning (PSP) information, also called the *PSP bucket*. The PSP upgrade ID depends on your z/OS operating system; for example, ZOSV2R4. The subset for Infoprint Server is INFOPRINT.

To obtain the current PSP bucket, contact the IBM Support Center or use z/OS SoftwareXcel (IBMLink). If you obtained z/OS as part of a CBPDO, HOLDDATA and PSP information is included on the CBPDO tape. However, this information might not be current if the CBPDO tape was delivered several weeks before installation.

Infoprint Server migration information

This table lists documents that can help you upgrade from previous releases of z/OS and migrate from IP PrintWay basic mode to IP PrintWay extended mode.

Document	Form number	Description
z/OS Upgrade Workflow	GA32-0889	Describes the tasks that are required to upgrade to z/OS V2R4. Includes the migration tasks for Infoprint Server.
z/OS Release Upgrade Reference Summary	SA23-2300	Describes new and changed messages and interfaces in z/OS V2R4. Includes the messages and interfaces for Infoprint Server.
z/OS Infoprint Server Customization	SA38-0691	Describes the tasks that are required to migrate to IP PrintWay extended mode from IP PrintWay basic mode. Also, describes the tasks that are required to use the new functions that are introduced in z/OS V2R4.

Documents

These tables list related documents that can help you use Infoprint Server and transform products. For documents for all z/OS products, see *z/OS Information Roadmap*.

Table 2. Documents for Infoprint Server		
Document	**Form number**	**Description**
z/OS Infoprint Server Introduction	SA38-0692	Introduces Infoprint Server. This document contains printing scenarios that show how you can use Infoprint Server in your installation.
z/OS Infoprint Server Customization	SA38-0691	Describes customization tasks for Infoprint Server. This document describes Infoprint Server environment variables, configuration files, startup procedures, how to write exit routines and filter programs, and how to use the Infoprint Server API.
z/OS Infoprint Server Operation and Administration	SA38-0693	Describes operator procedures and administrative tasks for Infoprint Server. This document describes how to start and stop Infoprint Server and how operators can use Infoprint Central. It describes how administrators can create entries in the Printer Inventory by using either ISPF panels or the Printer Inventory Definition Utility (PIDU) program and define NetSpool printer LUs to VTAM®.
z/OS Infoprint Server Printer Inventory for PSF	SA38-0694	Describes the Printer Inventory for PSF for PSF customers who do not purchase an Infoprint Server license. It describes the tasks that are required to customize Infoprint Server, start and stop Infoprint Server, create PSF FSS and FSA definitions in the Printer Inventory, and diagnose problems in Infoprint Server.
z/OS Infoprint Server User's Guide	SA38-0695	Describes user tasks for Infoprint Server. This document describes how to submit print jobs from remote systems (including Windows systems), the local z/OS system, and Virtual Telecommunications Access Method (VTAM) applications. It describes z/OS UNIX commands; the AOPPRINT JCL procedure; the AOPBATCH program; DD and OUTPUT JCL parameters that Infoprint Server supports; and how to download and install the Infoprint Port Monitor for Windows.
z/OS Infoprint Server Messages and Diagnosis	GA32-0927	Describes messages from Infoprint Server. This document also describes how to use Infoprint Server tracing facilities to diagnose and report errors.

Table 3. Documents for IBM transform products		
Document	**Form number**	**Description**
IBM Infoprint Transforms to AFP for z/OS	G550-0443	Describes IBM Infoprint Transforms to AFP for z/OS (5655-N60)

Table 3. Documents for IBM transform products (continued)		
Document	**Form number**	**Description**
IBM Print Transforms from AFP for Infoprint Server for z/OS	G325-2634	Describes these products: • IBM Print Transform from AFP to PCL for Infoprint Server for z/OS (5655-TF2) • IBM Print Transform from AFP to PDF for Infoprint Server for z/OS (5655-TF1) • IBM Print Transform from AFP to PostScript for Infoprint Server for z/OS (5655-TF3)
IBM Infoprint XT for z/OS	GI11-9492	Describes IBM Infoprint XT for z/OS (5655-O15)

Table 4. Documents for Ricoh products	
Ricoh Document	**Description**
InfoPrint Transform Manager for AIX, Linux, and Windows: Planning and Installing **in Ricoh Production Print Information Center (info.rpp.ricoh-usa.com/help/index.jsp)**	Describes InfoPrint Transform Manager and provides installation and configuration information about the product
InfoPrint Transform Manager for Linux: afp2pdf Transform Installation and User's Guide **in Ricoh Production Print Information Center (info.rpp.ricoh-usa.com/help/index.jsp)**	Describes the InfoPrint Transform Manager for Linux AFP to PDF transform

Infoprint Server online help

The Infoprint Server ISPF panels contain integrated online help for each panel and field. To view the help, place your cursor on a panel or in a field on a panel and press the Help function key (F1).

Infoprint Central contains an integrated online help system. To view the general help system and help for individual web pages, select the question mark (?) on the title bar.

The **man** command provides online help for z/OS UNIX commands. The syntax is:

```
man command_name
```

TSO/E provides online help for the AOPCMND command. The syntax is:

```
HELP AOPCMND
```

Message explanations

This information lists the messages for each component of Infoprint Server in ascending alphanumeric order. The message entries provide:

Explanation
> The explanation gives more information about the condition that caused Infoprint Server to display the message.

System action
> The system action describes how the system responds to the condition.

User response, system programmer response, and operator response
    The user response, system programmer response, and operator response provide actions for
    recovering from the error condition. Often this part of the entry gives more than one recovery action,
    or a series of related recovery actions. This means that more than one problem might cause the error.

Tip: Infoprint Server often displays more than one message for an error condition. When this occurs, use
all the messages to understand and correct the error.

Chapter 1, "IP PrintWay basic mode (ANF) messages and codes," on page 1 and Chapter 3, "NetSpool
(API) messages and codes," on page 351 also list the abend reason codes for the IP PrintWay basic mode
and NetSpool components of Infoprint Server. The code entries provide:

Explanation
    The explanation gives more information about the condition that caused the component abend to
    occur.

System action
    The system action specifies whether the component attempts to restart automatically or continues to
    end processing.

System programmer response
    If present, the system programmer response provides a suggested action for recovering from the error
    condition.

Message destinations

Infoprint Server components send messages to one or more of these destinations, depending on which is
most appropriate:

Operator's console
    Messages that the operator or system programmer must address.

Job submitter's console
    Messages reporting the completion or failure of a job to print.

IP PrintWay basic mode message log data set
    IP PrintWay basic mode sends messages to the message log data set that your installation defined for
    this purpose.

NetSpool message log data set
    NetSpool sends messages to the message log data set that your installation defined for this purpose.

Infoprint Server common message log
    All components of Infoprint Server, except for IP PrintWay basic mode, write messages to the
    Infoprint Server common message log if your installation customized it. In addition, PSF for z/OS can
    write messages in the common message log. Authorized users can use Infoprint Central to view
    messages in the common message log for selected print jobs and printers. In addition, Infoprint
    Server administrators can use the z/OS UNIX **aoplogu** command to select messages in a particular
    time range and copy them to a file or view them on the terminal. For information about the **aoplogu**
    command, see *z/OS Infoprint Server Operation and Administration*.

Transform daemon message log
    The transform daemons write messages in the message log file created each session for each
    daemon. The message log file is in the `xfd` subdirectory under the base directory that is defined in the
    `aopd.conf` file (usually `/var/Printsrv/`). The file name is *daemon*`.`*n*`.stderr`:

    daemon
        The name of the transform daemon with the error. For example, `pcl2afp`.

    n
        The instance of the transform daemon.

    The message log files clear every time the Infoprint Server Transform Manager is restarted.

Code types

Infoprint Server messages contain information about these types of codes:

- Action codes
- Dynamic allocation error codes
- Event Control Block (ECB) completion codes
- Information codes
- Status codes
- Return reason codes
- Abend reason codes
- System completion codes
- SNA sense codes
- VTAM codes

In determining a recovery procedure, use these codes in addition to the information in this publication. The code explanations in this publication either explain how to interpret these codes, or refer you to another publication that contains the information you need.

How to send your comments to IBM

We invite you to submit comments about the z/OS product documentation. Your valuable feedback helps to ensure accurate and high-quality information.

Important: If your comment regards a technical question or problem, see instead "If you have a technical problem" on page xxxiii.

Submit your feedback by using the appropriate method for your type of comment or question:

Feedback on z/OS function
> If your comment or question is about z/OS itself, submit a request through the IBM RFE Community (www.ibm.com/developerworks/rfe/).

Feedback on IBM Knowledge Center function
> If your comment or question is about the IBM Knowledge Center functionality, for example search capabilities or how to arrange the browser view, send a detailed email to IBM Knowledge Center Support at ibmkc@us.ibm.com.

Feedback on the z/OS product documentation and content
> If your comment is about the information that is provided in the z/OS product documentation library, send a detailed email to mhvrcfs@us.ibm.com. We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information.

> To help us better process your submission, include the following information:

> • Your name, company/university/institution name, and email address
> • The following deliverable title and order number: z/OS Infoprint Server Messages and Diagnosis, GA32-0927-40
> • The section title of the specific information to which your comment relates
> • The text of your comment.

When you send comments to IBM, you grant IBM a nonexclusive authority to use or distribute the comments in any way appropriate without incurring any obligation to you.

IBM or any other organizations use the personal information that you supply to contact you only about the issues that you submit.

If you have a technical problem

If you have a technical problem or question, do not use the feedback methods that are provided for sending documentation comments. Instead, take one or more of the following actions:

• Go to the IBM Support Portal (support.ibm.com).
• Contact your IBM service representative.
• Call IBM technical support.

Summary of changes

This information includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations for the current edition are indicated by a vertical line to the left of the change.

z/OS Version 2 Release 4 (V2R4)

The following changes are made for z/OS Version 2 Release 4.

Message changes for z/OS Infoprint Server Messages and Diagnosis

The following lists indicate the messages that are new, changed, or no longer issued in z/OS V2R4 and its updates. Messages that have been added, updated, or that are no longer issued in an updated edition of V2R4 are identified by the quarter and year that the message was updated, in parentheses. For example, (4Q2019) indicates that a message was updated in the fourth quarter of 2019.

New

The following messages are new.

> AOP125E
> AOP2026W
> AOP2061E
> AOP2201E
> AOP2500W
> AOP2501E
> AOP2502I
> AOP2503I
> AOP2504E
> AOP2505E
> AOP2506W
> AOP2507E
> AOPH1803I
> AOPH1804E
> AOPH1805I
> AOPH1806I
> AOPH1902E
> AOPH1903R
> AOPH1905I
> AOPH1906E
> AOPH1907R
> AOPH1908I
> AOPH1909E

Changed

The following messages are changed.

> AOP047E - reference to aopd.conf is removed from the system programmer response.
> AOP092E - text, explanation, system action, user action, and system programmer response are rewritten to include all resource and access types.

AOP101E - reference to aopd.conf is removed from the system programmer response.

AOP139E - references to aopd.conf and situations where dynamic configuration is not enabled are removed from the system programmer response.

AOP159E - text, explanation, system action, and system programmer response are rewritten for an unsupported file format.

AOP191I - explanation, system action, and system programmer response are rewritten to indicate that the aopmsg.conf file and most of the attributes in the aopd.conf file are ignored.

AOP3608E - reference to aopd.conf is removed from the system programmer response.

AOP3906E - references to the AOP_APPLID environment variable are removed from the explanation and system programmer response.

AOP3910E - reference to the AOP_APPLID environment variable is removed from the system programmer response.

AOPIM017 - reference to enabling dynamic configuration is removed from the system programmer response.

Deleted

The following messages are deleted.

AOP148E
AOP149E
AOP150I
AOP151E
AOP152E
AOP153W
AOP2202E
AOP2203E
AOP2204W
AOPIM006

Code changes for z/OS Infoprint Server Messages and Diagnosis

The following lists indicate the codes that are new, changed, or no longer issued in z/OS V2R4 and its updates. Codes that have been added, updated, or that are no longer issued in an updated edition of V2R4 are identified by the quarter and year that the message was updated, in parentheses. For example, (4Q2019) indicates that a code was updated in the fourth quarter of 2019.

New

The following codes are new.

Printer Inventory Manager reason code 56

General content changes for z/OS Infoprint Server Messages and Diagnosis

The following content is new, changed, or no longer included in V2R4.

Changed

The following content is changed.

- perms.dita#perms is updated to list additional files whose permissions are changed by **aopsetup** and to show new sample output.
- rel.dita#rel is updated with the z/OS V2R4 level of Infoprint Server.
- Instructions for setting permissions for the trace directory are added to traceenvvar.dita#traceenvvar.
- Instructions for enabling dynamic configuration are removed from tracestart.dita#tracestart/ startprtinv , tracestop.dita#tracestop/stopprtinv, and aop1m00042.dita#aop1m000-gen44/dirprtinv.

- tracecent.dita#tracecent is updated with instructions to start Apache tracing before restarting the HTTP server if **use-httpd-userid=yes**.

Deleted

The following content is deleted.

- Because these environment variables are replaced by attribute values defined using ISPF panels or the Printer Inventory Definition Utility (PIDU), references to them are removed: AOP_APPLID
- Because many attributes formerly defined in the `aopd.conf` file are now defined using ISPF panels or PIDU, most references to `aopd.conf` are removed.
- Because the `aopmsg.conf` is no longer used, all references to this file are removed.
- Because dynamic transfiguration is now always enabled, references to situations where Infoprint Server behaves differently depending on whether dynamic configuration is enabled are deleted.
- Because the Distributed File System/Server Message Block (DFS/SMB) protocol is no longer supported, references to it are deleted. IBM recommends that you use the Network File System (NFS) protocol instead.

z/OS Version 2 Release 3 (V2R3)

The following changes are made for z/OS Version 2 Release 3.

Message changes for z/OS Infoprint Server Messages and Diagnosis

The following lists indicate the messages that are new, changed, or no longer issued in z/OS V2R3 and its updates. Messages that have been added, updated, or that are no longer issued in an updated edition of V2R3 are identified by the quarter and year that the message was updated, in parentheses. For example, (4Q2017) indicates that a message was updated in the fourth quarter of 2017.

New

The following messages are new.

> AOP3621I
> AOP3622W
> AOP4023I
> AOPIM010
> AOPIM017

Changed

The following messages are changed.

> ANFH004I - references to VTAM services that IP PrintWay uses to transmit data to printers in an SNA network are removed.
> ANFM703I - explanation is updated for sendmail bridge.
> ANFM704I - explanation and system programmer response are updated for sendmail bridge.
> AOP026E - references to VTAM services that IP PrintWay uses to transmit data to printers in an SNA network are removed.
> AOP034E - explanation is updated for *optionsource*.
> AOP047E - system programmer response is updated for *exception-information*.
> AOP3905E - explanation is updated with information that Infoprint Coaxial Printer Support is no longer supported in z/OS V2R3.
> AOP3951I - explanation is updated for sendmail bridge.

Deleted

The following messages are deleted.

AOP134E

General content changes for z/OS Infoprint Server Messages and Diagnosis

The following content is new, changed, or no longer included in V2R3.

New

The following content is new.

- The dynamic tracing function is added to:
  - diagipc.dita#diagipc/probic
  - istrace.dita#istrace
  - traceprtinv.dita#traceprtinv
  - tracestart.dita#tracestart
  - tracestop.dita#tracestop
  - tracecent.dita#tracecent
  - aop1m00042.dita#aop1m000-gen44
  - aop1m00043.dita#aop1m000-gen45
  - aop1m00045.dita#aop1m000-gen47

Changed

The following content is changed.

- The z/OS UNIX sendmail program that IP PrintWay uses is changed to use the sendmail to Communications Server SMTP (CSSMTP) bridge as the mail transport. email.dita#email is updated for the new sendmail bridge.
- diagipc.dita#diagipc is updated.
- rel.dita#rel is updated with the z/OS V2R3 level of Infoprint Server.
- AOPTRACEON is updated in traceenvvar.dita#traceenvvar and the AOPTRACEON_EXITMAP environment variable is added.

Deleted

The following content is deleted.

- References to VTAM services that IP PrintWay uses to transmit data to printers in an SNA network are removed from:
  - **output-device** field in commonlogm.dita#commonlog
  - diagmap.dita#diagmap/tblover
  - pwxmode.dita#pwxmode
- Infoprint Coaxial Printer Support is no longer supported in z/OS V2R3. References are removed from:
  - findabend.dita#findabend/locmsgs
  - trbshpw.dita#trbshpw
  - compid.dita#compid/tblcomponentid
  - pwdiag.dita#pwdiag
  - aop1m00046.dita#aop1m000-gen48
  - pwxmode.dita#pwxmode

z/OS Version 2 Release 2 (V2R2)

The following content is new, changed, or no longer included in z/OS Version 2 Release 2.

New

- These messages are new:
    - "AOP031E" on page 140
    - "AOP182W" on page 209
    - "AOP194I" on page 216
    - "AOP196I" on page 218
    - "AOP197I" on page 218
    - "AOP198E" on page 219
    - "AOP199E" on page 219
- "09C completion code" on page 349 is new.

Changed

- These messages are changed:
    - "ANFM020A" on page 8
    - "AOP001E" on page 126
    - "AOP044I" on page 147
    - "AOP047E" on page 148
    - "AOP050E" on page 150
    - "AOP078W" on page 162
    - "AOP083E" on page 164
    - "AOP101E" on page 172
    - "AOP114E" on page 179
    - "AOP115E" on page 179
    - "AOP127I" on page 185
    - "AOP137E" on page 189
    - "AOP173E" on page 204
    - "AOP192E" on page 215
    - "AOP195E" on page 217
    - "AOP3504I" on page 259
    - "AOP3505I" on page 260
    - "AOPH1514I" on page 319
    - "API0930E" on page 373
- "0D22" on page 118 abend reason code is updated with a tip.
- API messages contain a message identifier followed by *jobname.identifier*. However, in this document, API messages are only shown with the message identifier and message text; the *jobname.identifier* is not shown. See "API message format" on page 351 for a description of *jobname.identifier*.
- The name of the IPP server daemon is changed from **aopippdxp** to **aopippd** throughout the publication. For example, see "Format of messages in the Infoprint Server common message log" on page 124.
- A note for the Language Environment CEEDUMP directory in Table 14 on page 423 is updated.

- The message location for Infoprint Central is updated in Table 15 on page 425 and "Diagnosing problems in Infoprint Central" on page 432.
- The **filter** command is no longer APF-authorized. "Checking permissions settings" on page 425 is updated.
- The name of the HTTP server that z/OS supports is now called the IBM HTTP Server - Powered by Apache. The Apache server has a different name for the HTTP environment variables file. This change affects "Diagnosing problems in Infoprint Central" on page 432 and "Tracing Infoprint Central" on page 457.
- Only Java™ Technology Edition V7.1 is supported in Infoprint Server V2R2. See Table 18 on page 433.
- The MVS operator command to use to determine whether IP PrintWay extended mode is running is updated in "Component identification number" on page 438.
- The examples in the procedure for getting the maintenance level of your program are updated in "Version, release, and maintenance level keywords" on page 444.
- The example for AOPTRACEBYTES and requirements for AOPTRACEDIR in "Tracing Infoprint Server" on page 447 are updated.
- "Tracing Infoprint Server daemons" on page 453 is updated.
- The examples in "Tracing Infoprint Central" on page 457 are updated.
- The trace file in "ISPF trace" on page 460 is updated.

Deleted

- Message AOP067E is deleted.
- References to the **aophinvd**, **aoplogd**, and **aopsdbd** daemons are removed from:
  - "Format of messages in the Infoprint Server common message log" on page 124
  - "Checking permissions settings" on page 425
  - "Tracing Infoprint Server daemons" on page 453
  - "Finding the trace file" on page 459
- References to "**snmp-community**", "Simple Network Management Protocol (SNMP) subagent", "SNMP", and "SNMP subagent" are removed from messages and:
  - "Format of messages in the Infoprint Server common message log" on page 124
  - "Checking permissions settings" on page 425
  - Chapter 7, "Using Infoprint Server diagnostic tools," on page 447

Chapter 1. IP PrintWay basic mode (ANF) messages and codes

The messages, system completion codes, and abend reason codes that the IP PrintWay basic mode component of Infoprint Server writes are described here.

ANF message format

Messages have this format:

ANF*snnnnt*

ANF
> Identifies IP PrintWay basic mode messages.

s
> Source code:
>
> **H**
>> The message is from an IP PrintWay health check.
>
> **M**
>> The message is from IP PrintWay basic mode.

nnnn
> Three to four-digit message number.

t
> Type code:
>
> **I**
>> This is an information message.
>
> **W**
>> A warning situation occurred.
>
> **A**
>> Operator action is required.
>
> **E**
>> An error occurred.

Messages

ANFH001E	IP PrintWay basic mode is running. IP PrintWay extended mode is the preferred mode.

Explanation

The IBM Health Checker Check (IBMINFOPRINT, INFOPRINT_PRINTWAY_MODE) function detected a printing mode that is not preferred.

This check found that IP PrintWay basic mode is running or was running at some time during this IPL of the z/OS system. IBM encourages you to use IP PrintWay extended mode instead of basic mode to print your output. IBM functionally stabilized IP PrintWay basic mode in z/OS V1R5 and plans to add new function only to IP PrintWay extended mode.

System action

The system continues processing.

Operator response

Notify the system programmer that this problem was reported.

System programmer response

Evaluate your printing needs to determine whether IP PrintWay extended mode can meet the needs of your installation. If possible, migrate to IP PrintWay extended mode.

Note: Some installations might need to continue to use IP PrintWay basic mode.

For information about IP PrintWay extended mode, see:

- *z/OS Infoprint Server Introduction*
- *z/OS Infoprint Server Customization*
- *z/OS Infoprint Server Operation and Administration*
- *z/OS Infoprint Server User's Guide*

For information about how to migrate from IP PrintWay basic mode to extended mode, see the migration actions in *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

ANFXHCCK

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFH002I	IP PrintWay extended mode is running.

Explanation

The IBM Health Checker Check (IBMINFOPRINT, INFOPRINT_PRINTWAY_MODE) function found no exceptions. IP PrintWay extended mode is running or was running at some time during this IPL of the z/OS system.

System action

The system continues processing.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

ANFXHCCK

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFH003I	IP PrintWay basic mode and extended mode are both running. IP PrintWay extended mode is the preferred mode.

Explanation

The IBM Health Checker Check (IBMINFOPRINT, INFOPRINT_PRINTWAY_MODE) function found that IP PrintWay basic mode and extended mode are currently running or were running at some time during this IPL of the z/OS system.

IBM encourages you to use IP PrintWay extended mode instead of basic mode to print your output. IBM functionally stabilized IP PrintWay basic mode in z/OS V1R5 and plans to add new function only to IP PrintWay extended mode.

System action

The system continues processing.

Operator response

Notify the system programmer that this problem was reported.

System programmer response

Evaluate your printing needs to determine whether you can migrate completely to IP PrintWay extended mode.

Note: Some installations might need to continue to use IP PrintWay basic mode.

For information about IP PrintWay extended mode, see:

- *z/OS Infoprint Server Introduction*
- *z/OS Infoprint Server Customization*
- *z/OS Infoprint Server Operation and Administration*
- *z/OS Infoprint Server User's Guide*

For information about how to migrate from IP PrintWay basic mode to extended mode, see the migration actions in *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

ANFXHCCK

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFH004I   IP PrintWay is not running.

Explanation

The IBM Health Checker Check (IBMINFOPRINT, INFOPRINT_PRINTWAY_MODE) function found that IP PrintWay is not running.

If you decide to use IP PrintWay to print output to printers in your TCP/IP network, IBM encourages you to use IP PrintWay extended mode instead of basic mode to print your output. IBM functionally stabilized IP PrintWay basic mode in z/OS V1R5 and plans to add new function only to IP PrintWay extended mode

For information about IP PrintWay, see:

- *z/OS Infoprint Server Introduction*

- *z/OS Infoprint Server Customization*
- *z/OS Infoprint Server Operation and Administration*
- *z/OS Infoprint Server User's Guide*

System action

The system continues processing.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

ANFXHCCK

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFMI000 - ANFMI999

Explanation

These messages are displayed by Infoprint Server ISPF panel modules. For an explanation, see the help on the ISPF panel.

ANFM004I   Using message table *msgtabl*

Explanation

In the message text, *msgtabl* is the name of the message table that was loaded by the messaging facility.

System action

IP PrintWay basic mode initialization continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM005S	Failed to load message table *msgtabl*

Explanation

IP PrintWay basic mode cannot load the message table into storage. Either the table was not found in the STEPLIB/LINKLIST concatenation, or insufficient virtual storage was available to load the table.

In the message text, *msgtabl* is the name of the message table that failed to load.

System action

Message processing is not available. IP PrintWay basic mode is stopped.

Operator response

Notify your system programmer of this error.

System programmer response

Verify that IP PrintWay basic mode was installed correctly and that the message table is stored in a library in the search list of the load module library (STEPLIB/LINKLIST).

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM006S	Unable to create message table token *tokennm*

Explanation

IP PrintWay basic mode cannot create the named token that contains the message table anchor.

In the message text, *tokennm* is the message token name that cannot be created.

System action

Message processing is not available. IP PrintWay basic mode is stopped.

Operator response

None.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM007I   Unable to retrieve message table token *tokennm*

Explanation

IP PrintWay basic mode cannot retrieve the named token that contains the message table anchor.

In the message text, *tokennm* is the message token name that cannot be retrieved.

System action

Termination continues.

Operator response

None.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM008I   Unable to delete message table from storage *msgtabl*

Explanation

IP PrintWay basic mode cannot delete the message table from storage during termination.

In the message text, *msgtabl* is the message table name that cannot be deleted.

System action

Termination continues.

Operator response

None.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM009I   Unable to delete message table token *tokennm*

Explanation

IP PrintWay basic mode cannot delete the named token that contains the message table anchor.

In the message text, *tokennm* is the message token name that cannot be deleted.

System action

Termination continues.

Operator response

None.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM010S	Unable to delete message table token *fctcode*

Explanation

Unknown function code sent to message initialization routine. This is an internal error.

In the message text, *fctcode* is the unknown ANFMINIT function code.

System action

The task is ended.

Operator response

Notify your system programmer of this error.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM011S	Unable to retrieve message table token *tokennm*

Explanation

IP PrintWay basic mode cannot retrieve the named token that contains the message table anchor.

In the message text, *tokennm* is the message token name that cannot be retrieved.

System action

IP PrintWay basic mode ends.

Operator response

None.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM012S   **Unable to obtain *stgsize* bytes of storage for message DCB**

Explanation

IP PrintWay basic mode cannot obtain storage below 16 MB for the message file DCB.

In the message text, *stgsize* is the amount of storage requested.

System action

PrintWay ends.

Operator response

Notify your system programmer of this error.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM016I   **Invalid TCP/IP jobname**

Explanation

The TCP/IP job name that is specified in the TCPIPJOBNAME statement in the TCPIP.DATA data set is not a valid name, or it is a symbolic name. IP PrintWay does not support symbolic job names. IP PrintWay writes this message for each IP PrintWay functional subsystem (FSS) and functional subsystem application (FSA) that uses the TCPIP.DATA data set.

System action

If the IP PrintWay FSS definition in the Printer Inventory specifies the TCP/IP job name, IP PrintWay uses the TCP/IP job name in the Printer Inventory and continues processing. If no IP PrintWay FSS definition exists in the Printer Inventory, or if no TCP/IP job name is specified in the FSS definition, an IP PrintWay abend occurs.

Operator response

If an IP PrintWay abend does not occur, ignore this message. If an IP PrintWay abend occurs, notify your system programmer.

System programmer response

If an IP PrintWay abend occurs, follow the instructions for abend code 0E91. If an IP PrintWay abend does not occur, you can ignore this message. However, if you want IP PrintWay to avoid writing this message at all, create a new TCPIP.DATA data set for IP PrintWay to use. In the new data set, replace the symbolic TCP/IP job name with the actual TCP/IP job name. Specify the new TCPIP.DATA data set in the SYSTCPD DD statement in the IP PrintWay startup procedure.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| **ANFM020A** | *jobname* **Enter the IP PrintWay trace command or U – using the MVS MODIFY command** |

Explanation

The PARM parameter in the startup procedure or the IP PrintWay FSS definition in the Printer Inventory specifies the prompt for the operator interface. IP PrintWay basic mode is not initialized. See Operator Response.

In the message text, *jobname* is a job name, an FSS name, or an FSA name.

System action

IP PrintWay basic mode initialization continues.

Operator response

You can do one of these:

1. Enter MODIFY commands for the FSS and then initialize the IP PrintWay basic mode operator interface by responding U. Do not specify an FSA name of the MODIFY command:

   ```
   {MODIFY | F} fssname,command
   ```

2. Continue initializing of the IP PrintWay basic mode operator interface:

   ```
   {MODIFY | F} fssname,U
   ```

fssname is the name of the IP PrintWay basic mode FSS as provided in the message. Do not enter an FSA name, or the command is rejected. After the IP PrintWay basic mode operator interface is initialized, you can enter any IP PrintWay basic mode operator commands.

For more information about the format of the MODIFY command, see Chapter 8, "Using IP PrintWay basic mode diagnostic tools," on page 463.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| **ANFM021I** | *jobname* **The IP PrintWay operator interface has been initialized** |

Explanation

The IP PrintWay basic mode operator interface is initialized successfully. All IP PrintWay basic mode commands can now be entered.

In the message text, *jobname* is the job name, an FSS name, or an FSA name.

System action

IP PrintWay basic mode initialization continues.

Operator response

You can now type IP PrintWay basic mode commands.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM022I　　　*jobname* **Not enough storage is available to initialize the IP PrintWay operator interface - storage requested (*storagesize*), return code = (*retcode*)**

Explanation

Not enough storage is available for control blocks or work areas. The message indicates the size of the storage that is requested. The return code is from the MVS GETMAIN macro.

In the message text, *jobname* is the job name, an FSS name, or an FSA name. *storagesize* is the storage size that is requested by the GETMAIN macro. *retcode* is the GETMAIN macro return code from the unsuccessful GETMAIN request.

System action

The IP PrintWay basic mode operator interface is not initialized. IP PrintWay basic mode initialization continues.

Operator response

None.

System programmer response

The size of the REGION parameter needs to be increased. Increase the REGION parameter that is used in the IP PrintWay startup procedure.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM023I　　　*jobname* **The IP PrintWay operator interface initialization was unsuccessful - module(*modulename*)**

Explanation

The IP PrintWay basic mode operator interface was not initialized successfully. A functional command initialization module returned a nonzero return code.

In the message text, *jobname* is either a job name, an FSS name, or an FSA name. *modulename* is a functional command initialization module that returned a nonzero return code.

System action

The IP PrintWay basic mode operator interface is not initialized. IP PrintWay basic mode initialization continues.

Operator response

Inform your system programmer that this error occurred.

System programmer response

See the specific error conditions that are described in the accompanying messages to determine an appropriate response.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM024I *jobname* **The IP PrintWay operator interface is being terminated, module(*modulename*) has terminated**

Explanation

An abend occurred in a module that had a previous abend condition. Because the previous abend and this abend involve the same module, IP PrintWay basic mode does not attempt a recovery of the operator interface.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *modulename* is a previous module in which an abend occurred and which an abend occurred again.

System action

The IP PrintWay basic mode operator interface is ended.

Operator response

Inform your system programmer that this error occurred.

System programmer response

If you suspect an IP PrintWay programming error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM025I *jobname* **The IP PrintWay operator interface has been terminated**

Explanation

The IP PrintWay basic mode operator interface had an unrecoverable error and stopped.

In the message text, *jobname* is a job name, an FSS name, or an FSA name.

System action

The IP PrintWay basic mode operator interface is stopped.

Operator response

To activate the operator interface, purge and restart IP PrintWay basic mode.

System programmer response

If you suspect an IP PrintWay programming error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM027I *jobname* **The FORCE command terminated the IP PrintWay FSA *fsaname***

Explanation

The operator entered an MVS MODIFY FORCE command for the specified IP PrintWay basic mode FSA.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *fsaname* is the name of FSA that is stopped.

System action

The Functional Subsystem Application (FSA) for the indicated FSA name is stopped.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM028I	*jobname* (*modulename*) detected system completion code '*systemcompletioncode*', IP PrintWay abend reason code '*abendreasoncode*'

Explanation

An abend occurred.

In the message text:

jobname
    A job name, an FSS name, or an FSA name.

modulename
    Name of the ESTAI routine.

systemcompletioncode
    System completion code.

abendreasoncode
    IP PrintWay abend reason code.

System action

The IP PrintWay FSA ends.

Operator response

Restart the IP PrintWay FSA.

System programmer response

Look up the IP PrintWay abend reason code in "IP PrintWay basic mode system completion code and abend reason codes" on page 93.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM029I	*jobname* IP PrintWay operator interface was terminated abnormally

Explanation

IP PrintWay basic mode detected an unrecoverable error while it was evaluating the abend condition. The ESTAI routine provided an SVC dump.

In the message text, *jobname* is a job name, an FSS name, or an FSA name.

System action

Abend processing continues.

Operator response

Inform your system programmer that this error occurred.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. Save the SVC dump that the ESTAI routine provides and send it to IBM support for analysis.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM030I	*jobname* IP PrintWay ESTAI cannot evaluate system completion code '*systemcompletioncode*', abnormal termination continues

Explanation

The IP PrintWay basic mode ESTAI routine is unable to continue because IP PrintWay basic mode did not display the system completion code.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *systemcompletioncode* is the system completion code.

System action

Abend processing continues.

Operator response

Notify your system programmer of this error.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. Save the SVC dump that the ESTAI routine provides and send it to IBM support for analysis.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM031I	*jobname* The IP PrintWay command(*command*) was not processed, tracing is not active

Explanation

The command was not processed because tracing was not active.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode continues processing.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM032I   *jobname* **The IP PrintWay command(***command***) was not processed, FSA(***fsaname***) is not active**

Explanation

The FSA name that is specified in a command was not active.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command. *fsaname* is the IP PrintWay basic mode FSA name.

System action

IP PrintWay basic mode continues processing.

Operator response

Start the named FSA and then type the command again.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM035I   *jobname* **Command(***command***) is not valid for IP PrintWay**

Explanation

An unsupported command was typed as a parameter of the MODIFY command. The command is not supported.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command.

Operator response

Type a valid command.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM036I   *jobname* **An unsupported keyword(***keyword***) was specified for command(***command***)**

Explanation

You entered an incorrect keyword with the MODIFY command. The keyword is not supported.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *keyword* is the IP PrintWay basic mode keyword. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command.

Operator response

Type the command with a valid keyword.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM037I	*jobname* **Processing of the FORCE command for IP PrintWay FSA** *fsaname* **has been terminated because the FSA has already begun terminating**

Explanation

The operator entered an IP PrintWay basic mode FORCE command with the MVS MODIFY command for an FSA that is already stopping.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *fsaname* is the IP PrintWay basic mode FSA Name.

System action

The IP PrintWay basic mode MODIFY FORCE command for the indicated FSA is discarded by IP PrintWay basic mode. The termination processing already in progress completes to get the results that the discarded MODIFY FORCE command desires.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM038I	*jobname* **No IP PrintWay command was specified—***data*

Explanation

The operator entered data that is not a command. The last character of data is the last position that is checked before it is decided that a correct command is not present.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *data* are alphanumeric characters.

System action

IP PrintWay basic mode ignores the data and processes the next command entered.

Operator response

Type a valid IP PrintWay basic mode command.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM039I   *jobname* **The status of the IP PrintWay command(***command***) is *status***

Explanation

The IP PrintWay basic mode command is accepted or the command is queued for later processing. When the command is accepted, the functional processor is called to process the command. When the command is queued, the command is placed on either an FSS-level queue or an FSA-level queue. All commands that are queued in which the FSA name was specified are queued on the FSA-level queue. Commands that are entered without the FSA name are queued on the FSS-level queue.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command. *status* is the status of the command—for example, accepted or queued.

System action

IP PrintWay basic mode continues processing the data.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM046I   *jobname* **The keyword(***keyword***) is mutually exclusive with another keyword specified in the IP PrintWay command(***command***)**

Explanation

You entered two mutually exclusive keywords in this command.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *keyword* is the IP PrintWay basic mode keyword. *command* is the IP PrintWay basic mode command.

System action

The command is ignored and processing continues with the next command entered.

Operator response

Type the command again specifying the correct keywords.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM047I   *jobname* **The IP PrintWay Keyword** *keyword* **cannot be specified with** *keywordparameter***, keyword ignored**

Explanation

You entered a keyword that is mutually exclusive with another keyword or parameter in the command.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *keyword* is the IP PrintWay basic mode keyword. *keywordparameter* is the IP PrintWay basic mode keyword parameter.

System action

The keyword is ignored and defaults are used.

Operator response

Type the command again if different keywords are required. For more information about the keywords, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM048I   *jobname* **A duplicate keyword (***keyword***) was entered for the IP PrintWay command (***command***)**

Explanation

You entered the same keyword more than once in the same command.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *keyword* is the IP PrintWay basic mode keyword. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the correct format of the command.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM049I   *jobname* **An IP PrintWay keyword was expected but was not found -** *commandtext*

Explanation

The operator entered *commandtext* instead of a valid keyword. The last character of *commandtext* is the last position that is checked before the keyword is determined to be incorrect.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *commandtext* is the text of the command entered.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the correct format of the command.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM050I   *jobname* **Keywords are not allowed with the IP PrintWay command(***command***)**

Explanation

You typed a command with keywords, but this command does not allow keywords.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again without the keywords.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM051I   *jobname* **A keyword is required for the IP PrintWay command(***command***)**

Explanation

You entered a command without keywords, but this command requires keywords.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again with the required keywords.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM061I	*jobname* **An unsupported parameter(*parameter*) was specified for keyword(*keyword*) in the IP PrintWay command(*command*)**

Explanation

You typed an incorrect keyword parameter.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *parameter* is the IP PrintWay keyword parameter. *keyword* is the IP PrintWay keyword.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again with the correct parameter for the keyword.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM064I	*jobname* **The parameter(*parameter*) is mutually exclusive with another parameter specified in keyword(*keyword*) in the IP PrintWay command(*command*)**

Explanation

You typed two mutually exclusive parameters in the indicated keyword.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *parameter* is the IP PrintWay basic mode keyword parameter. *keyword* is the IP PrintWay basic mode keyword. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again with consistent keywords specified.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM067I   *jobname* **A duplicate parameter(***parameter***) was entered for keyword(***keyword***) in the IP PrintWay command(***command***)**

Explanation

You typed a parameter more than once in the keyword.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *parameter* is the keyword parameter. *keyword* is the IP PrintWay basic mode keyword. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command without a duplicate parameter for the keyword.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM068I   *jobname* **A delimiter was found where an IP PrintWay parameter was expected -** *commandtext*

Explanation

A delimiter was found where a parameter was expected. The last character of the *commandtext* data is the incorrect delimiter.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *commandtext* is the text of the command up to the error.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the correct format of the command.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM069I   *jobname* **No parameters were specified for keyword(***keyword***) in the IP PrintWay command(***command***)**

Explanation

You entered a keyword without its required parameters.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *keyword* is the IP PrintWay basic mode keyword. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again with the correct keyword parameters.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM070I   *jobname* **An unbalanced parenthesis was encountered in the IP PrintWay command -** *commandtext*

Explanation

An ending parenthesis is missing from a command. *commandtext* is the data that was entered. The last character of *commandtext* is the last position that is checked before it is decided that a correct parameter list is not present.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *commandtext* is the text of the command up to the error.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command and the keyword parameter list in the correct format.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM071I   *jobname* **An IP PrintWay parameter was found where an FSA name was expected -** *commandparameter*

Explanation

You entered a command without the FSA name. The command was entered as `command,parameter`, but you need to enter it as `command,prtnnnn,parameters` if you want to specify an FSA name. If you do not want to specify an FSA name, enter `command,,parameters`.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *commandparameter* are the command parameters up to the error.

System action

IP PrintWay basic mode ignores the command and processes the next command.

Operator response

Type the command again with an FSA name or with a comma to occupy the position of the FSA name.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM083I   *jobname* **An FSA name cannot be specified for an IP PrintWay command during initialization.**

Explanation

The reply for message ANFM020A specified the FSA name in the command. During initialization, the FSA name cannot be specified with any command. These commands take effect for the entire FSS. Thus, an FSA name specification is not valid.

In the message text, *jobname* is a job name, an FSS name, or an FSA name.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command without the FSA name.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM084I   *jobname* **The format of FSA name (*fsaname*) is not valid in IP PrintWay command (*command*)**

Explanation

The FSA name that is specified is incorrect because its format is not valid. The format of an FSA name is prt(nnnnn).

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *fsaname* is the IP PrintWay basic mode FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the correct format of the FSA name.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM085I *jobname* **An FSA name cannot be specified for the IP PrintWay command(***command***)**

Explanation

You entered a command with an FSA name, but the FSA name parameter is not valid with this command.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again without an FSA name.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM086I *jobname* **An FSA name is required for the IP PrintWay command(***command***)**

Explanation

You entered a command without an FSA name, but an FSA name parameter is required with this command.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode command.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again with an FSA name.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM087I *jobname* **An FSA name cannot be specified with the IP PrintWay command(***command***) with parameter(***parameter***)**

Explanation

The FSA name was specified for a command, but the parameter that is specified with this command does not allow the FSA name to be specified.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *command* is the IP PrintWay basic mode Command. *parameter* is the IP PrintWay basic mode keyword parameter.

System action

IP PrintWay basic mode ignores the command and processes the next command entered.

Operator response

Type the command again without an FSA name.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM091I	*jobname* **Not enough storage is available to process command queues - storage requested = *storagerequested*, return code = (*retcode*)**

Explanation

More storage is required to process the command queues, but this storage is not available. The return code is from the GETMAIN macro.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *storagerequested* is the amount

of storage requested. *retcode* is the return code from request.

System action

IP PrintWay basic mode ignores the command and processes the next command.

Operator response

Inform your system programmer that this error occurred.

System programmer response

Increase the REGION parameter on the startup procedure.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM092I	*jobname* **The IP PrintWay QEDIT request was unsuccessful - return code = (*retcode*)**

Explanation

An MVS QEDIT request to change the number of requests that can be queued for this FSS was unsuccessful. The return code is the code that is returned by the QEDIT macro.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *retcode* is the return code from the request.

System action

The operator interface is stopped with a dump.

Operator response

Inform your system programmer that this error occurred.

System programmer response

For information about the QEDIT return code, see *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM093I	*jobname* The MVS STOP command is not valid for the IP PrintWay operator interface

Explanation

You entered an MVS STOP command for the IP PrintWay basic mode operator interface. The IP PrintWay basic mode operator interface processes only the MVS MODIFY command.

In the message text, *jobname* is a job name, an FSS name, or an FSA name.

System action

IP PrintWay basic mode ignores the command and processes the next command.

Operator response

Use the MVS MODIFY command to enter IP PrintWay basic mode commands.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM094I	*jobname* The *systemfunction* call was unsuccessful for the IP PrintWay module *modulename*, return code (*retcode*) - module(*modulename*)

Explanation

A system function was used to do some task for the operator interface. The function returned a nonzero return code.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *systemfunction* is a System Function used to do some task for the operator interface. *modulename* is the System function request that was sent for this module. *retcode* is the return code that is returned by the system function.

System action

Processing ends with an abend or error message. A subsequent IP PrintWay basic mode message notifies the operator what action was taken.

Operator response

Inform your system programmer that this error occurred.

System programmer response

For information about the return code, see one of these:

- *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*

- *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*
- *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU*
- *z/OS MVS Programming: Authorized Assembler Services Reference SET-WTO*

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM095I	*jobname* An IP PrintWay FREEMAIN invocation was unsuccessful for subpool(*subpool*), return code = (*retcode*) - module(*modulename*)

Explanation

The FREEMAIN was unsuccessful. It returned a nonzero return code.

In the message text, *jobname* is a job name, an FSS name, or an FSA name. *subpool* is the Subpool being freed. *retcode* is the return code from the FREEMAIN macro. *modulename* is the name of module that sent the FREEMAIN macro.

System action

Processing ends with an abend or error message. A subsequent IP PrintWay basic mode message notifies the operator what action was taken.

Operator response

Inform your system programmer that this error occurred.

System programmer response

For information about the return code, see *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM100I	An IP PrintWay SVC dump was unsuccessful - reason code(*reasoncode*)

Explanation

The IP PrintWay basic mode ESTAI routine received a return code of 8 from the system's SVC dump service. This indicates that the SVC dump was unsuccessful.

In the message text, *reasoncode* is the SVC dump's reason code, in decimal.

System action

Abend processing continues.

Operator response

Notify your system programmer of this error.

System programmer response

If the reason code is 11 (X'0B'), Dump Analysis Elimination (DAE) suppressed the dump because a previous similar dump occurred. Check the SYS1.DAE data set for a symptom string that matches the abend that just occurred.

If you receive reason code 5, verify that at least one SYS1.DUMPnn data set is available when IP PrintWay basic mode attempts to take a dump. To determine

why the macro failed or returned unexpected results, see information about the SDUMP reason codes in *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM101I	An IP PrintWay SVC dump was successful

Explanation

IP PrintWay basic mode successfully completed an SVC dump to an SYS1.DUMP*nn* data set.

System action

Abend processing continues.

Operator response

Notify your system programmer of this error.

System programmer response

Examine the SVC dump.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM102I	System completion code *complcode* ABEND reason code *rsncode* has been detected by IP PrintWay module *modulename*

Explanation

The IP PrintWay basic mode ESTAI routine detected an abend condition.

In the message text, *complcode* is the system completion code. *rsncode* is the abend reason code. The abend reason codes are described in "IP PrintWay basic mode system completion code and abend reason codes" on page 93. *modulename* is the name of the ESTAI module.

System action

Depending on the error condition, processing is stopped for the FSA on which the error occurred, or processing is stopped for the entire IP PrintWay basic mode address space.

Operator response

Notify your system programmer of this error.

System programmer response

Examine the accompanying IP PrintWay basic mode message to determine the appropriate response.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| ANFM103I | Data set: *dsname* The time value *timeval* specified with the *jclkeyw* is not valid, the data set is released |

Explanation

The time value that is specified on the OUTPUT statement with the RETRYT, RETAINS, or RETAINF keyword was not valid. The format is SS, MM:SS, or HH:MM:SS. SS and MM are values 0 - 59, and HH is a value 0 - 99.

In the message text, *dsname* is the data set name. *timeval* is the time specification. *jclkeyw* is the JCL Keyword.

System action

IP PrintWay basic mode releases the data set to JES. JES deletes the data set from the JES spool.

Operator response

None.

System programmer response

None.

User response

Correct the options on the OUTPUT statement and resubmit the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| ANFM104I | An IP PrintWay SVC dump request created a partial dump |

Explanation

The IP PrintWay basic mode ESTAI routine received a return code of X'04' from the system's SVC dump routine. The code indicates that a partial dump was taken.

System action

Abend processing continues.

Operator response

Notify your system programmer of this error.

System programmer response

Increase the size of the SYS1.DUMPnn data set, if needed.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| ANFM105I | An IP PrintWay ESTAI cannot evaluate system completion code, *complcode*, module, *modulename*, abnormal termination will continue |

Explanation

The IP PrintWay basic mode ESTAI routine is unable to continue because either the abend reason code was

not displayed by IP PrintWay basic mode, or the abend reason code was not available.

In the message text, *complcode* is the system completion code. *modulename* is the name of the failing module.

System action

Abend processing continues.

Operator response

Notify your system programmer of this error.

System programmer response

Examine the SVC dump. Register 15 at the time of the abend might contain the abend reason code.

For assistance related to this error code, consult your service representative in the IBM Support Center, or use your electronic link with IBM service.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM106I	An IP PrintWay FSA ESTAI VSAM call (*vsfunc*) failed

Explanation

The FSA ESTAI routine was called during abnormal termination. While it was cleaning up the VSAM transmission-queue data set, the routine encountered an error in the indicated function.

In the message text, *vsfunc* is the failing VSAM function.

System action

Termination continues.

Operator response

None.

System programmer response

The message indicates a VSAM or IP PrintWay basic mode logic error.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM107I	There was an error at the Inventory Server, an indication of the error will appear on the *inventory* server log.

Explanation

The Printer Inventory Manager had an error. Check the Printer Inventory Manager log to determine the error.

In the message text, *inventory* is the name of the Printer Inventory with the error.

System action

IP PrintWay basic mode ends.

Operator response

None.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM108I	The Inventory Server by the name of *inventory* is not started. IP PrintWay will not start until the Printer Inventory server is running.

Explanation

The Printer Inventory Manager is not started. IP PrintWay basic mode does not start until the Printer Inventory Manager is running. The Printer Inventory Manager is required for IP PrintWay basic mode to format and deliver print.

In the message text, *inventory* is the name of the Printer Inventory with the error.

System action

IP PrintWay basic mode does not start.

Operator response

Start the Printer Inventory Manager manually, or change the name of the Printer Inventory in the PARM parameter on the IP PrintWay basic mode EXEC statement to the correct name. For more information about the PARM parameter on the EXEC statement, see *z/OS Infoprint Server Customization*. For more information about the Printer Inventory Manager, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM109I	There is not enough storage to satisfy a request to the Inventory Server.

Explanation

Not enough storage exists to satisfy a request to the Printer Inventory Manager.

System action

IP PrintWay basic mode ends abnormally.

Operator response

None.

System programmer response

Increase the IP PrintWay basic mode REGION size on the JCL statement. For more information, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM110I   **The Inventory Server API (AOPDBPKG) could not be loaded. The load failed with a return code of *retcode* and reason code of *reasoncode*.**

Explanation

The load failed for module AOPDBPKG. The high-order halfword is the abend code. The low-order halfword is the reason code.

System action

IP PrintWay basic mode ends.

Operator response

None.

System programmer response

Make sure the Printer Inventory Manager API (AOPDBPKG) is in the SYS1.LINKLIB. Look up the message's return and reason codes in *z/OS MVS System Codes* for more information about the error.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM112I   **Connection with the Inventory Server with the name of *inventory* was lost.**

Explanation

The connection with the Printer Inventory Manager was lost. IP PrintWay basic mode looked for a Printer Inventory with the name that is given in the message text.

In the message text, *inventory* is the name of the Printer Inventory with which IP PrintWay basic mode lost contact.

System action

IP PrintWay basic mode ends abnormally.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM113I   **The EXEC parm value of INV= that identifies the name of the**

Inventory server was not found. The writer cannot be started.

Explanation

A Printer Inventory name must be identified to IP PrintWay basic mode in the PARM parameter on the EXEC statement:

```
PARM=(INV=xxxx)
```

xxxx is the 1 - 4 character name of the Printer Inventory.

System action

IP PrintWay basic mode does not start.

Operator response

None.

System programmer response

Code the EXEC statement with the correct 1 - 4 character name for the Printer Inventory. For more information about the PARM parameter on the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM114I	Data set: *datasetname* The time value *timeval* specified with the *keyword* is not valid, the data set is released.

Explanation

For the data set named, the time value that is specified is not in the correct format on the RETRYT, RETAINS, or RETAINF keyword. The correct format is SS, MM:SS, or HH:MM:SS. SS and MM are values 0 - 59. HH is a value 0 - 99.

In the message text, *datasetname* is the name of the data set at the time of the error. *timeval* is the time value specified. *keyword* is the keyword with the incorrect time value.

System action

The data set is released.

Operator response

None.

System programmer response

Correct the format and submit the data set again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM115I	The INV= string was not found on the EXEC parameter statement in the writer procedure.

Explanation

A Printer Inventory name must be identified to IP PrintWay basic mode in the PARM parameter on the EXEC statement:

```
PARM=(INV=xxxx)
```

xxxx is the 1 - 4 character name of the Printer Inventory.

System action

IP PrintWay basic mode does not start.

Operator response

Notify the system programmer.

System programmer response

Code the EXEC statement with the correct 1 - 4 character name for the Printer Inventory. For more information about the PARM parameter on the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM116I	There are more than four characters specified for the inventory server name on the EXEC parameter. The name must be 1 to 4 characters.

Explanation

The INV= statement on the PARM parameter on the EXEC statement has a name that is not valid. The name of the Printer Inventory must be 1 - 4 characters. The Printer Inventory cannot be started until this value is correct. The correct format of the INV statement in the PARM parameter on the EXEC statement is:

```
PARM=(INV=xxxx)
```

xxxx is the 1 - 4 character name of the Printer Inventory.

System action

IP PrintWay basic mode does not start.

Operator response

Notify the system programmer.

System programmer response

Code the EXEC statement with the correct 1 - 4 character name for the Printer Inventory. For more information about the PARM parameter on the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM117I	The call to BPX1SSD returned a bad return code: *retcode*.

Explanation

The call to BPX1SSD cannot be completed. The return code indicates the reason for the failure.

System action

IP PrintWay basic mode ends.

Operator response

Notify the system programmer.

System programmer response

Use the reason code and the extended reason code to determine the problem. For details about these codes, see *z/OS Language Environment Debugging Guide*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM122I	**FSS: *fssname* IP PrintWay must be started by JES**

Explanation

IP PrintWay basic mode was started by some means other than JES.

In the message text, *fssname* is the FSS name from FSS definition.

System action

The FSS ends.

Operator response

None.

System programmer response

Start IP PrintWay basic mode by using the appropriate JES command.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM123I	**FSS: *fssname* IP PrintWay requires the FSI to run above the line**

Explanation

Your FSI is set up to run below the 16 MB line, but IP PrintWay basic mode requires it to run above the line.

In the message text, *fssname* is the FSS name from the FSS definition.

System action

The FSS ends.

Operator response

None.

System programmer response

Set up your FSI to run above the line.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM126I   FSS: *fssname* The queue manager for this FSS has terminated

Explanation

The transmission-queue manager stopped unexpectedly.

In the message text, *fssname* is the FSS name from the FSS definition.

System action

The FSS ends.

Operator response

None.

System programmer response

See previous messages to determine why the transmission-queue manager stopped.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM130I   FSA: *fsaname* An IP PrintWay initialization error occurred in module *modname*

Explanation

The named module encountered an initialization error.

In the message text, *fsaname* is the FSA name. *modname* is the name of failing module.

System action

The FSA ends.

Operator response

None.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM131I   Data set: *dsname* No routing entry was found, the data set is held

Explanation

IP PrintWay basic mode cannot find a printer definition with the form name, class, and destination that is specified in the JCL for this data set. Therefore, the data set is held by the system.

In the message text, *dsname* is the data set name.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

Notify your system programmer of this error.

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

Change the forms, class, or destination of the data set, or create a printer definition in the Printer Inventory for the current forms, class, and destination.

In the printer definition, make sure that the **Use DEST, CLASS, and FORMS for IP PrintWay printer selection** field is selected. This field is displayed on the main ISPF panel for the printer definition. If you use the Printer Inventory Definition Utility (PIDU) instead of ISPF panels to create or modify the printer definition, the corresponding printer attribute to specify is **dcf-routing=yes**.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM132I   **Data set: *dsname* The options entry *optname* was not found, the data set is held**

Explanation

The printer definition or the PRTOPTNS parameter in the OUTPUT JCL statement contains the name of an options component, but IP PrintWay basic mode cannot find the named options component in the printer definition or Printer Inventory. An options component might be missing, or the name of the options component might be spelled incorrectly.

In the message text, *dsname* is the data set name. *optname* is the name of the options component that is specified in JCL or the printer definition.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

Notify your system programmer of this error.

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

Either create an options component with the specified name in the Printer Inventory, or specify the correct options component in the printer definition. Use the Infoprint Server ISPF panels to add a options component or to modify the printer definition.

User response

If the name of the options component is incorrect in the PRTOPTNS parameter, specify the correct name and resubmit the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM133I   **Data set: *dsname* The middle of a spanned record was found with no previous beginning, the data set is held**

Explanation

IP PrintWay basic mode found a spanned record middle segment, but was not currently processing a spanned record.

In the message text, *dsname* is the data set name.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

Notify your system programmer of this error.

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

See the JES I/O error message to determine an appropriate action.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM134I	Data set: *dsname* The end of a spanned record was found with no previous beginning, the data set is held

Explanation

A spanned record end was found, but a spanned record was not currently being processed.

In the message text, *dsname* is the data set name.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

Notify your system programmer of this error.

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

See the JES I/O error message to determine an appropriate action.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM135I	Data set: *dsname* A spanned record is too big, the data set is held

Explanation

A spanned record is bigger than the allowable maximum of 32 K.

In the message text, *dsname* is the data set name.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

Notify your system programmer of this error.

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

Make sure that no records for IP PrintWay basic mode are bigger than 32 K.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM136I **Data set: *dsname* No end of a spanned record was found, the data set is held**

Explanation

A spanned record was started but not ended.

In the message text, *dsname* is the data set name.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

Notify your system programmer of this error.

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

See the JES I/O error message to determine an appropriate action.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM137I **IP PrintWay is terminating due to the requested ABEND**

Explanation

The operator requested an abend.

System action

IP PrintWay basic mode ends the requested level with an abend.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM138I **An IP PrintWay SVC dump received a return code of 04**

Explanation

The operator requested a dump, but the dump request completed with a return code of 04, indicating that only a partial dump was done.

System action

Processing continues.

Operator response

None.

System programmer response

Allow more space for the dump data sets.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM139I	An IP PrintWay SVC dump received a return code of 08

Explanation

The operator requested a dump, but the dump request completed with a return code of 08, indicating that no dump occurred.

System action

Processing continues.

Operator response

None.

System programmer response

Allow more space for dump data sets or free a dump data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM140I	Data set: *dsname* Writing of an IP PrintWay SMF6 record failed

Explanation

A data set completed, and IP PrintWay basic mode attempted to write an SMF6 record but was unable to write the SMF record.

In the message text, *dsname* is the data set name.

System action

Processing continues.

Operator response

None.

System programmer response

See any associated errors to correct the SMF problem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM141I   **Data set:** *dsname* **Successful Transmission**

Explanation

The NOTIFY parameter caused notification for this data set to be sent, and its transmission worked.

In the message text, *dsname* is the data set name.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM142I   **Data set:** *dsname* **Unsuccessful Transmission**

Explanation

The NOTIFY parameter caused notification for this data set to be sent, and its transmission failed. For more information, see the IP PrintWay basic mode message log data set.

In the message text, *dsname* is the data set name.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM143I   **The node** *nodeid* **on the NOTIFY parameter is not valid**

Explanation

The NOTIFY parameter indicated this node, and it is not valid.

In the message text, *nodeid* is the name of the user's node.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

Specify the NOTIFY keyword with a valid node.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM144I	The submitter is not authorized to send status to *userid* using the NOTIFY parameter

Explanation

The NOTIFY parameter indicated this user, but the submitter is not authorized to send status to that user.

In the message text, *userid* is the name of submitter.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

Specify the NOTIFY keyword with an accessible user.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM145I	The NOTIFY command failed - code = *errorb*

Explanation

The NOTIFY command failed with the indicated code. 28 - storage, 08 - canceled, other - logic error.

In the message text, *errorb* is the failure code byte.

System action

Processing continues.

Operator response

None.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM146I	A NOTIFY error was received - code = *errorb*

Explanation

The NOTIFY command failed with the indicated code. It indicates a logic error.

In the message text, *errorb* is the failure code byte.

System action

Processing continues.

Operator response

None.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM147I	A NOTIFY error was received - code = *errorb*

Explanation

The NOTIFY parameter failed with the indicated code.

In the message text, *errorb* is the failure code byte.

System action

Processing continues.

Operator response

None.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM148I	Notify your system programmer

Explanation

See the previous messages for the error.

System action

Processing continues.

Operator response

None.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM149I   Data set: *dsname* Released, no transmission

Explanation

The NOTIFY parameter caused notification for this data set to be sent. The data set was released to JES without attempting its transmission. This situation might occur if the data set was restarted from a JES checkpoint, or if the FSA was stopped.

In the message text, *dsname* is the data set name.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM150I   Data set: *dsname* IP was specified on the OUTPUT statement, but the PRTQUEUE keyword was not specified, the data set is released

Explanation

The DEST=IP: parameter was specified on the OUTPUT statement in the JCL for the data set. However, the required PRTQUEUE parameter was not also specified.

In the message text, *dsname* is the data set name.

System action

IP PrintWay basic mode releases the data set to JES and requests that JES delete the data set from the JES spool.

Operator response

None.

System programmer response

None.

User response

Submit the data set again and specify the PRTQUEUE parameter.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM152I   Data set: *dsname* The BDS user exit *bdsexit* was not found

Explanation

The printer definition that IP PrintWay basic mode used for this data set specified the name of a Begin Data Set exit. The named exit cannot be located.

In the message text: *dsname* is the data set name. *bdsexit* is the name of the Begin Data Set exit as specified in the printer definition.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

If the name of the exit is correct, make sure that the exit routine is in the library search order (STEPLIB/LINKLIST). If the name of the exit is not correct, change the exit name in the IP PrintWay Options panel of the printer definition by using the Infoprint Server ISPF panels.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM153I   **Data set:** *dsname* **The EDS user exit** *edsexit* **was not found**

Explanation

The printer definition that IP PrintWay basic mode used for this data set specified the name of an End Data Set exit. The named exit cannot be located.

In the message text: *dsname* is the data set name. *edsexit* is the name of the End Data Set exit as specified in the printer definition.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

If the name of the exit is correct, make sure that the exit routine is in the library search order (STEPLIB/LINKLIST). If the name of the exit is not correct, change the exit name in the IP PrintWay Options panel of the printer definition by using the Infoprint Server ISPF panels.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM154I   **Data set:** *dsname* **The record user exit** *record exit* **was not found**

Explanation

The printer definition that IP PrintWay basic mode used for this data set specified the name of a Record exit. The named exit cannot be located.

In the message text: *dsname* is the data set name. *record exit* is the name of the Record exit as specified in the printer definition.

System action

IP PrintWay releases the data set back to JES and requests that the system hold it.

Operator response

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

If the name of the exit is correct, make sure that the exit routine is in the library search order (STEPLIB/ LINKLIST). If the name of the exit is not correct, change the exit name in the IP PrintWay Options panel of the printer definition by using the Infoprint Server ISPF panels.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM155I   *usrtxt*

Explanation

One of the IP PrintWay basic mode installation exits requested that IP PrintWay basic mode write this message to the IP PrintWay basic mode message log data set. The *usrtxt* was generated by the exit. For information about how an exit can create messages, see *z/OS Infoprint Server Customization*.

System action

IP PrintWay basic mode continues processing.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM156W   **An FSA in the IP PrintWay address space was unable to acquire storage**

Explanation

An IP PrintWay basic mode FSA attempted to acquire storage but failed. Sufficient storage might be unavailable because IP PrintWay basic mode retained a large number of data sets on the JES spool. IP PrintWay basic mode retains a data set on the JES spool after successful transmission or failed transmission if the job submitter specifies a retain time in the RETAINS and RETAINF parameters on the OUTPUT JCL statement or the printer definition that is used for the data set specifies a retention period.

System action

If IP PrintWay basic mode is attempting to acquire a data set from JES when this error occurs, IP PrintWay basic mode does not acquire the data set. The data set remains on the JES spool and might be acquired again.

If IP PrintWay basic mode is attempting to transmit a data set when this error occurs, IP PrintWay basic mode tries the transmission again. If IP PrintWay basic mode already attempted the requested number of retransmissions, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions, and then deletes the data set.

Operator response

Notify your system programmer of this error.

To make more storage available, delete some of the data sets that IP PrintWay basic mode retained on the JES spool. Use the Infoprint Server ISPF panels to list entries on the IP PrintWay basic mode transmission queue with a status of S (successful transmission) or F (failed transmission). These entries represent data sets that are retained on the JES spool. Consider deleting entries with a status of S before you delete entries with a status of F. Also, consider deleting data sets that are retained the longest. The **Last Activity** field in each entry contains the date and time of the last transmission attempt. For more information, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

Consider shortening the retention periods that are specified in the printer definitions in the Printer Inventory. For information about how to use the Infoprint Server ISPF panels to modify the printer definitions, see *z/OS Infoprint Server Operation and Administration* or the ISPF online help panels.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM157I	Both PRTQUEUE and PORTNO JCL keywords were specified on the OUTPUT statement. The PRTQUEUE value is ignored.

Explanation

IP PrintWay basic mode uses only the PORTNO value when both PORTNO and PRTQUEUE JCL keywords are specified on the OUTPUT statement. This message is for information only.

System action

Processing continues with the PORTNO value.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM158I	Data set: *datasetname* No entry was found for the printer name, the data set is held PRINTER NAME = *printer-name*

Explanation

No printer definition was found matching the printer of the named data set, so the data set is held by the system.

In the message text, *datasetname* is the data set at the time of the error. *printer-name* is the printer that is specified for the data set.

System action

The data set is held.

Operator response

None.

System programmer response

Have the job submitter change the printer name of the data set and resubmit the job, or create a printer definition in the Infoprint Server Printer Inventory for the current printer name.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM159I	Data set: *datasetname* An error occurred on the Inventory Server, the data set is held. Check the server log for an indication of the error.

Explanation

The Printer Inventory Manager had an error.

In the message text, *datasetname* is the data set at the time of the error.

System action

The data set is held by the system.

Operator response

None.

System programmer response

Determine and fix the cause of the error, then reset the data set. For information about resetting the data set, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM160I	Data set: *datasetname* The printer inventory server is not responding

Explanation

IP PrintWay basic mode cannot start or access the Printer Inventory Manager.

In the message text, *datasetname* is the data set at the time of the error.

System action

The data set is held.

Operator response

None.

System programmer response

Find and fix the server error, and then reset the data set. For more information about the Printer Inventory Manager and about resetting the data set, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| ANFM161I | Data set: *datasetname* No Printer Inventory entry was found for the options name specified either through JCL or the Routing exit. The data set is held. Entry name = *componentname* |

Explanation

No component was found in the Infoprint Server Printer Inventory with the requested component name. A Processing, IP PrintWay basic mode Options, or Protocol component with the requested name must exist in the Printer Inventory.

In the message text, *datasetname* is the data set at the time of the error. *componentname* is the name of the component that was requested either in the PRTOPTNS JCL parameter of the OUTPUT statement or in the IP PrintWay basic mode routing exit.

System action

The data set is held by the system.

Operator response

None.

System programmer response

Correct the component name in the PRTOPTNS JCL parameter or in the Routing exit. If the component name is correct, create a Processing, IP PrintWay basic mode Options, or Protocol component with that name in the Infoprint Server Printer Inventory. For information about how to create components for the PRTOPTNS parameter, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

| ANFM162I | Data set: *datasetname* A bad key was detected by the inventory server. The data set is held. Entry name = *printer-name* |

Explanation

The Printer Inventory Manager was called with a bad key.

In the message text, *datasetname* is the data set at the time of the error. *printer-name* is the printer that is specified for the data set.

System action

The data set is held.

Operator response

None.

System programmer response

Find and fix the error, and then reset the data set. This problem can be caused by routing exit processing in which the Route name was changed from DEST, CLASS, and FORMS to a printer definition name, but the Routing Type was not changed.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM163I   **ANFLIB=*libpath***

Explanation

This informational message indicates the path name of ANFLIB DD.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM164I   **ANFCALL=*callpath***

Explanation

This informational message indicates the path name of ANFCALL DD.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM165I   **Data set: *datasetname* The VTAM feature is not enabled or the APPLID is not coded on the FSS definition, the data set is held.**

Explanation

IP PrintWay basic mode attempted to transmit a data set to a VTAM controlled printer. To print on VTAM controlled printers, you must create a VTAM application program resource definition (APPL) for IP PrintWay basic mode and specify the APPL ID in an FSS definition in the Printer Inventory.

In the message text, *datasetname* is the data set at the time of the error.

System action

The data set is placed on the system hold queue and IP PrintWay basic mode continues processing other data sets.

Operator response

Notify the system programmer that this error occurred. After the problem is corrected, restart the IP PrintWay basic mode FSS to pick up any changes to the APPL ID in the FSS definition in the Printer Inventory. Then, release the data set from the system hold queue.

System programmer response

Create an FSS definition for the IP PrintWay basic mode FSS and specify the name of the VTAM APPL statement for IP PrintWay basic mode.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM166I   The SNA feature is not enabled.

Explanation

The AOXVTM module returned a return code of 4.

System action

Processing continues.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM167I   The VTAM ACB initialization failed with a return code = *returncode*. Verify that the APPLID name is correct.

Explanation

The VTAM ACB macro failed. The APPL ID specified in the FSS definition in the Printer Inventory for the IP PrintWay basic mode functional subsystem (FSS) might be incorrect.

In the message text, *returncode* is the return code from the VTAM ACB macro.

System action

Processing continues.

Operator response

Notify your system programmer that this error occurred. After the error is corrected, restart the IP PrintWay basic mode FSS to pick up changes to the FSS definition in the Printer Inventory.

System programmer response

Make sure that the APPL ID specified in the FSS definition matches the name of an APPL statement that is defined to VTAM. For information about the APPL statement and FSS definition, see *z/OS Infoprint Server Customization*.

For information about the VTAM return code, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM170I	Data set: *dsname* The TCP/IP HOSTNAME is not configured. Correct the TCP/IP configuration and restart the FSA again.

Explanation

TCP/IP is not configured with a host name. In the message text, *dsname* is the data set name.

System action

The data set is released to JES and is put into a hold status.

Operator response

Notify your system programmer that this error occurred. After the error is corrected, restart the IP PrintWay basic mode FSA and release the data set from the system hold queue.

System programmer response

Code a HOSTNAME in either the *hlq*.TCPIP.DATA data set or in the `/etc/resolv.conf` file.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM171I	Data set: *dsname* The printer type: *type* is invalid for IP PrintWay.

Explanation

The printer definition that IP PrintWay basic mode selected in the Infoprint Server Printer Inventory to print the data set is not the correct type. The printer definition must be an IP PrintWay basic mode printer definition.

In the message text, *dsname* is the data set name and *type* is the type of the printer definition: PSF-MVS, GENERAL, or UNKNOWN.

System action

The data set is released to JES and is put into a hold status.

Operator response

Notify your system programmer that this error occurred. After the error is corrected, release the data set from the system hold queue.

System programmer response

Inspect the DEST, CLASS, and FORMS values of the output data set to determine which printer definition IP PrintWay basic mode selected to print the data set. If that is not possible, you can use the Infoprint Server ISPF panels to list all printer definitions with the incorrect type that is identified in the message text and attempt to determine which printer definition caused this problem.

If the DEST, CLASS, and FORMS values on the JCL are incorrect and caused IP PrintWay basic mode to select the wrong printer definition, change the DEST, CLASS, and FORMS values of the output data set. Otherwise, use the Infoprint Server ISPF panels or the Printer Inventory Definition Utility (PIDU) to change the type of the printer definition. The type must be IP PrintWay basic mode.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM600I   **FSS:** *fssname* **The queue manager has been started**

Explanation

The queue manager component for the listed FSS is started.

In the message text, *fssname* is the FSS name from the FSS definition.

System action

The queue manager component continues processing normally.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM601I   **Data set:** *dsname* **The data set was successfully transmitted to host and queue:** *host queue*

Explanation

The listed data set is successfully transmitted.

In the message text, *dsname* is the data set name. *host* is the target host. *queue* is the target print queue.

System action

The queue manager module continues processing normally.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM602I   **Data set:** *dsname* **The data set was not successfully transmitted to host and queue:** *host queue*

Explanation

The listed data set was not successfully transmitted (including any retransmissions).

In the message text, *dsname* is the data set name. *host* is the target host. *queue* is the target print queue.

System action

Queue manager continues processing normally.

Operator response

This message might be because of a transient error in the network, the target system, or printer. If you see the message several times for a particular target system or printer, it might indicate a problem at that system. In this case, notify your system programmer of this error.

System programmer response

If this message recurs for a particular target system or printer, attempt to determine the reason data cannot be successfully transmitted and correct the problem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM603I	Data set: *dsname* The data set is being released with a JES checkpoint

Explanation

The IP PrintWay basic mode FSA is being stopped. IP PrintWay basic mode releases the data set to JES with checkpoint information. The data set remains on the JES spool and can be acquired again. If it is acquired again, IP PrintWay basic mode uses the retry and restart status information in the checkpoint.

In the message text, *dsname* is the data set name.

System action

IP PrintWay basic mode releases the data set to JES with checkpoint information. The FSA continues normal termination.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM604I	Data set: *dsname* The data set is being released to JES

Explanation

The retention period that is specified for the data set expired. The retention period is specified either on the OUTPUT JCL statement or in the printer definition. The data set is being released to JES and is deleted from the JES spool.

In the message text, *dsname* is the data set name.

System action

IP PrintWay releases the data set back to JES and requests that the system delete it.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM605I   **Data set: *dsname* The data set is being released to JES due to an error**

Explanation

The listed data set is being released to JES following an error.

In the message text, *dsname* is the data set name.

System action

The data set is released to JES and is put into a hold status.

Operator response

Either an I/O error was encountered when IP PrintWay basic mode tried to read the records of the data set from the JES spool, or an exit routine or FCB routine produced a terminating return code. If you want to attempt the data set again, it must first be released from hold status.

Notify your system programmer of this error.

System programmer response

See other system messages that are associated with this I/O error to determine the correct response.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM606I   **Data set: *dsname* The data set was successfully transmitted to host and port: *host port***

Explanation

The listed data set is successfully transmitted. In the message text, *dsname* is the data set name. *host* is the target host. *port* is the target port.

System action

The queue manager module continues processing normally.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM607I	**Data set: *dsname* The data set was not successfully transmitted to host and port: *host port***

Explanation

The listed data set was not successfully transmitted (including any retransmissions).

In the message text, *dsname* is the data set name. *host* is the target host. *port* is the target port.

System action

The queue manager module continues processing normally.

Operator response

This message might be because of a transient error in the network, the target system, or printer. If you see the message several times for a particular target system or printer, it might indicate a problem at that system. In that case, notify your system programmer of this error.

System programmer response

If this message recurs for a particular target system or printer, attempt to determine the reason that data cannot be successfully transmitted and correct the problem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM690I	**The IP PrintWay queue manager ESTAI routine VSAM call (*vsfunc*) failed**

Explanation

The transmission-queue manager ESTAI routine was called during abnormal termination. While IP PrintWay basic mode was trying to clean up the VSAM transmission-queue data set, an error was encountered in the indicated function.

In the message text, *vsfunc* is the failing VSAM function.

System action

Termination continues.

Operator response

None.

System programmer response

The message indicates a VSAM or IP PrintWay basic mode logic error.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM691I	**Data set: *dsname* The queue manager ESTAI routine has**

**deleted the transmission queue
entry for this data set**

Explanation

The entry in the transmission queue for the listed data set is deleted by the queue manager ESTAI during abend recovery processing. This is normal processing. The data set remains on the JES spool and is available for subsequent printing.

In the message text, *dsname* is the data set name.

System action

Termination continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM699I	FSS: *fssname* The queue manager has stopped

Explanation

The queue manager for the listed FSS is stopped.

In the message text, *fssname* is the FSS name from the FSS definition.

System action

Queue manager continues termination.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM700I	Data set: *dsname* The data set has been acquired by *fsaname*

Explanation

The listed data set was acquired from JES, and IP PrintWay basic mode made a transmission queue entry for it.

In the message text, *dsname* is the data set name. *fsaname* is the FSA name.

System action

A subsequent attempt is made to transmit the data set.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM701I	Data set: *dsname* The data set was successfully transmitted to URL: *printer-url*

Explanation

The listed data set is successfully transmitted to the printer.

In the message text, *dsname* is the data set name. *printer-url* is the Uniform Resource Locator (URL) of the target printer.

System action

IP PrintWay basic mode continues processing normally.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM702I	Data set: *dsname* The data set was not successfully transmitted to URL: *printer-url*

Explanation

The listed data set was not successfully transmitted to the printer. IP PrintWay basic mode completed all attempts to try the transmission again.

In the message text, *dsname* is the data set name. *printer-url* is the Uniform Resource Locator (URL) of the target printer.

System action

IP PrintWay basic mode continues processing normally.

Operator response

This message might be because of a transient error in the network, the target system, or printer. If you see the message several times for a particular target system or printer, it might indicate a problem at that system. In that case, notify your system programmer of this error.

System programmer response

If this message recurs for a particular target system or printer, attempt to determine the reason data cannot be successfully transmitted and correct the problem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM703I   **Data set:** *dsname* **The data set was successfully sent to e-mail address:** *addresses*

Explanation

The sendmail to Communications Server SMTP (CSSMTP) bridge accepted the sendmail command from IP PrintWay basic mode to send the data set to the email recipients.

In the message text, *dsname* is the data set name, and *addresses* is the list of email addresses of the email recipients.

System action

The sendmail bridge attempts to send the email to the recipients. IP PrintWay basic mode continues processing.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM704I   **Data set:** *dsname* **The data set was not successfully sent to e-mail address:** *addresses*

Explanation

The sendmail to Communications Server SMTP (CSSMTP) bridge did not successfully run the sendmail command from IP PrintWay basic mode to send the data set to the email recipients. This error might indicate that the sendmail bridge is not installed correctly, that the sendmail bridge did not find an alias name in its aliases file, or that an email address on the local system does not exist. An associated message explains the error in more detail.

In the message text, *dsname* is the data set name and *addresses* is the list of email addresses of the email recipients.

System action

IP PrintWay basic mode continues processing.

Operator response

See the associated IP PrintWay basic mode error message to determine the sendmail error.

System programmer response

Determine the reason for the sendmail error and correct the problem. If the email address is incorrect, correct the address in the printer definition in the Infoprint Server Printer Inventory or in one of the email JCL parameters or email job attributes.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1100T   **The TCP/IP INITAPI call failed with an ERRNO value of (***errno***)**

Explanation

The TCP/IP INITAPI call failed for this FSA.

In the message text, *errno* is the TCP/IP ERRNO returned from INITAPI.

System action

The FSA ends.

Operator response

None.

System programmer response

Check the ERRNO in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* for the cause.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1101I	The TCP/IP GETHOSTNAME call failed with an ERRNO value of (*errno*)

Explanation

The TCP/IP GETHOSTNAME call failed for this IP PrintWay basic mode FSA.

In the message text, *errno* is the TCP/IP ERRNO returned from GETHOSTNAME.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES

spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Check the ERRNO in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* for the cause.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1102T	The hyperspace initialization failed with a return code of (*retcode*) and a reason code of (*reasoncode*)

Explanation

The DSPSERV macro call failed for this IP PrintWay basic mode FSA.

In the message text, *retcode* is the DSPSERV macro return code from the CREATE request. *reasoncode* is the DSPSERV macro reason code from CREATE request.

System action

IP PrintWay basic mode ends with an E90 abend. If this is the last retransmission attempt, IP PrintWay basic mode either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay basic mode automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Check the return and reason code in *z/OS MVS System Codes* for the cause.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1103I	Data set: *datasetname* IP address: *ipaddress* The TCP/IP BIND call failed with an ERRNO value of (*errno*)

Explanation

The TCP/IP BIND call failed for the target address for the well-known port range 721 - 731.

In the message text:

datasetname
   Name of the data set

ipaddress
   Printer's IP address or host name

errno
   TCP/IP ERRNO returned from BIND

Also, see "Common Infoprint Server problems" on page 429 for more information about this message.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the

retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Look up the ERRNO value in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* to determine the cause of the problem.

An ERRNO value of 60 indicates that the IP PrintWay basic mode connection timeout value expired. Typically, the connection timeout value expires when a permanent error prevents TCP/IP from connecting to the printer. For example, the printer might be turned off or a firewall might prevent TCP/IP from connecting to the printer. If you think that TCP/IP cannot connect to the printer because of heavy network traffic, consider increasing the value in the **Connection timeout** field in the printer definition in the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1104I	Data set: *datasetname* IP address: *ipaddress* The TCP/IP SOCKET CONNECT call failed with an ERRNO value of (*errno*)

Explanation

The TCP/IP CONNECT failed for the target address.

In the message text:

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datasetname
    Name of the data set

ipaddress
    Printer's IP address or host name

errno
    TCP/IP ERRNO returned from CONNECT

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer of this error.

System programmer response

Look up the ERRNO value in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* to determine the cause of the problem.

An ERRNO value of 60 indicates that the IP PrintWay basic mode connection timeout value expired. Typically, the connection timeout value expires when a permanent error prevents TCP/IP from connecting to the printer. For example, the printer might be turned off or a firewall might prevent TCP/IP from connecting to the printer. If you think that TCP/IP cannot connect to the printer because of heavy network traffic, consider increasing the value in the **Connection timeout** field in the printer definition in the Printer Inventory.

If the ERRNO value is 54, also check the system console log for a possible error message from the Print Interface component of Infoprint Server. (Print Interface messages have an AOP prefix.) Print Interface displays an error message if an error occurred when IP PrintWay basic mode resubmitted the data set to Print Interface to transform the data from one format to another. This situation occurs when the **Resubmit for filtering** field is selected in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1105I	Data set: *datasetname* IP address: *ipaddress* The TCP/IP IOCTL call failed with an ERRNO value of (*errno*)

Explanation

The TCP/IP IOCTL call failed for the target address.

In the message text:

datasetname
    Name of the data set

ipaddress
    Printer's IP address or host name

errno
    TCP/IP ERRNO returned from IOCTL

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer of this error.

System programmer response

Look up the ERRNO value in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* to determine the cause of the problem.

An ERRNO value of 60 indicates that the IP PrintWay basic mode connection timeout value expired. Typically, the connection timeout value expires when a permanent error prevents TCP/IP from connecting to the printer. For example, the printer might be turned off or a firewall might prevent TCP/IP from connecting to the printer. If you think that TCP/IP cannot connect

to the printer because of heavy network traffic, consider increasing the value in the **Connection timeout** field in the printer definition in the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1106I	Data set: *datasetname* IP address: *ipaddress* **The TCP/IP SET SOCKET OPTION call failed with an ERRNO value of (*errno*)**

Explanation

The TCP/IP SETSOCKOPT failed for this data set.

In the message text:

datasetname
    Name of the data set

ipaddress
    Printer's IP address or host name

errno
    TCP/IP ERRNO returned from SETSOCKOPT

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer of this error.

System programmer response

Look up the ERRNO value in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* to determine the cause of the problem.

An ERRNO value of 60 indicates that the IP PrintWay basic mode connection timeout value expired. Typically, the connection timeout value expires when a permanent error prevents TCP/IP from connecting to the printer. For example, the printer might be turned off or a firewall might prevent TCP/IP from connecting to the printer. If you think that TCP/IP cannot connect to the printer because of heavy network traffic, consider increasing the value in the **Connection timeout** field in the printer definition in the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1107I	Data set: *datasetname* IP address: *ipaddress* **The TCP/IP SOCKET call failed with an ERRNO value of (*errno*)**

Explanation

The TCP/IP SOCKET call failed for this data set.

In the message text:

datasetname
    Name of the data set

ipaddress
    Printer's IP address or host name

errno
    TCP/IP ERRNO returned from SOCKET

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Look up the ERRNO value in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* to determine the cause of the problem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1108I	Data set: *datasetname* The data set received a TCP/IP SOCKET RECEIVE error with an ERRNO value of (*errno*)

Explanation

The TCP/IP RECEIVE function indicated that the communication partner closed the connection.

In the message text, *datasetname* is the name of the data set at time of the error. *errno* is the TCP/IP ERRNO returned from RECEIVE.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Check the ERRNO in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* for the cause.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1109I	Data set: *datasetname* The data set received a TCP/IP SOCKET RECEIVE error with an ERRNO value of (*errno*)

Explanation

The TCP/IP RECEIVE function failed.

In the message text, *datasetname* is the name of the data set. *errno* is the TCP/IP ERRNO returned from RECEIVE.

Also, see "Common Infoprint Server problems" on page 429 for more information about this message.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Check the ERRNO in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* for the cause. If the ERRNO value is 54 and the printer is an HP printer with a JetDirect card, see "Common Infoprint Server problems" on page 429 for more information.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1110I	Data set: *datasetname* The data set received a TCP/IP SOCKET SEND error with an ERRNO value of (*errno*)

Explanation

The TCP/IP SEND function failed.

In the message text, *datasetname* is the name of the data set at time of the error. *errno* is the TCP/IP ERRNO returned from SEND.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Check the ERRNO in *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* for the cause.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1111I	Data set: *datasetname* IP address: *ipaddress* The name or address specified is not recognized as a host name or valid dotted decimal address

Explanation

The host name or address cannot be resolved.

In the message text:

datasetname
    Name of the data set.

ipaddress
    Host name or IP address for the printer or print server that was specified in the printer definition,

on the OUTPUT JCL statement for the data set, or in the IP PrintWay Routing exit.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Try to ping the printer or print server by using the host name or IP address in the message. If the ping is not successful, make sure that the host name or IP address is correct and, if a host name is specified, that the domain name server is working. If the host name or IP address is incorrect, specify the correct host name or IP address in the printer definition, on the OUTPUT JCL statement, or in the IP PrintWay Routing exit.

If the data set is retained on the IP PrintWay transmission queue, you can use the Infoprint Server ISPF panels to reroute the data set to the correct host name or IP address. If the data set is not retained on the transmission queue, the user must resubmit the data set for printing.

Note: If the IP address is in colon-hexadecimal format, you must use IP PrintWay extended mode. IP PrintWay basic mode does not support IPv6.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1112I	Data set: *datasetname* An unsupported record format was found, FIXED and VARIABLE record formats are supported

Explanation

A record format other than Fixed or Variable was detected.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Reblock or create a translate table that has either a Fixed or Variable record format.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1113I	Data set: *datasetname* The end of data set was found before the

**SBCS or DBCS translate table
could be read for the data set**

Explanation

The end of the data set was found before IP PrintWay basic mode read the translate table.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the single-byte or double-byte translate table data set, or specify another table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1114I	**Data set: *datasetname* The SYNAD exit executed indicating an error for the SBCS or DBCS translate table**

Explanation

The SYNAD exit was called, indicating an I/O error.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the single-byte or double-byte translate table, or specify another table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1115I	**Data set: *datasetname* A record greater than 256 bytes for a fixed block data set or greater than 260 bytes for a variable blocked data set was returned on a GET macro for the SBCS translate table data set**

Explanation

A single-byte data set translate table must not be larger than 256 bytes.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the single-byte translate table or specify another table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1116I	Data set: *datasetname* The OPEN call failed for the translate table

Explanation

The last data set in the search order cannot be opened.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

For the data set search order, see *z/OS Infoprint Server Operation and Administration*. One of these data sets must be cataloged on the system.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1117I	Hyperspace request is larger than the maximum allowed of 524 288 blocks

Explanation

The maximum size of a hiperspace request is 524 288 blocks.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

The maximum size that can be requested is 524 288 blocks.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1118I	Data set: *datasetname* The SVC99 call failed with a return code of (*retcode*), an S99ERROR code of (*errorcode*) and an S99INFO code of (*infocode*)

Explanation

SVC99 dynamic allocation failed. The message is displayed only when internal or external tracing is active. The message is not an error message unless none of the translate tables can be allocated. This message is displayed if the data set name is not on the system. This search order for DBCS translate tables is used if the XLATETABLE LPR option is specified:

1. translate_table_name.language_name

2. tcpip_hlq.translate_table_name.language_name

3. tcpip_hlq.STANDARD.language_name

This search order for single-byte translate tables is used if the XLATETABLE LPR option is specified:

1. translate_table_name.TCPXLBIN

2. tcpip_hlq.translate_table_name.language_name

This search order for DBCS translate tables is used if the XLATETABLE LPR option is NOT specified:

1. tcpip_hlq.LPR.language_name

2. tcpip_hlq.STANDARD.language_name

This search order for single-byte translate tables is used if the XLATETABLE LPR option is NOT specified:

1. tcpip_hlq.LPR.TCPXLBIN

2. tcpip_hlq.STANDARD.TCPXLBIN

In the message text, *datasetname* is the name of the data set. *retcode* is the return code. *errorcode* is the error code. *infocode* is the information code.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

For the data set search order, see *z/OS Infoprint Server Operation and Administration*. One of these data sets must be cataloged on the system.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1119I	Data set: *datasetname* The data set has exceeded the hyperspace allocation for this FSA

Explanation

The hiperspace default size or the size that is specified in the FSS definition for the IP PrintWay basic mode functional subsystem (FSS) in the Printer Inventory is exceeded for this data set.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Increase the hiperspace size in the FSS definition for the IP PrintWay basic mode FSS in the Infoprint Server Printer Inventory. You can use the Infoprint Server ISPF panels to change the hiperspace size. After you change the hiperspace value, restart the IP PrintWay basic mode FSS so that IP PrintWay basic mode picks up the changes in the FSS definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1120I **The host name of the system where IP PrintWay is running: *hostname***

Explanation

This informational message, which is displayed for each data set IP PrintWay basic mode processes, displays the host name of the z/OS system where IP PrintWay basic mode is running. In the message text, *hostname* is the host name that is returned by the TCP/IP GETHOSTNAME function call.

System action

Processing continues.

Operator response

If the host name is not correct, notify your system programmer that this error occurred.

System programmer response

If this host name is not correct, configure the z/OS host name correctly in TCP/IP. You do not need to restart IP PrintWay basic mode after you reconfigure TCP/IP. Then, verify that this message displays the correct host name the next time it is displayed.

You can ignore this message if IP PrintWay basic mode does not use the LPR transmission protocol. You can view the printer definitions in the Infoprint Server Printer Inventory to determine which transmission protocols IP PrintWay basic mode uses.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1121I **Hostname from GETHOSTNAME call is invalid.**

Explanation

The TCP/IP GETHOSTNAME function call returned a host name that is too long. This condition generally indicates that the z/OS host name is incorrectly configured in TCP/IP.

System action

IP PrintWay basic mode uses the first 8 characters of the z/OS host name when it transmits the data set to

the printer. The host name that the printer's LPD prints on the banner (separator) page and on page headers is probably not correct. IP PrintWay basic mode obtains a new z/OS host name each time it transmits a new data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Configure the z/OS host name correctly in TCP/IP. You do not need to restart IP PrintWay basic mode after you reconfigure TCP/IP. Then, verify that message ANFM1120I displays the correct host name.

You can ignore this message if IP PrintWay basic mode does not use the LPR transmission protocol. You can view the printer definitions in the Infoprint Server Printer Inventory to determine which transmission protocols IP PrintWay basic mode uses.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1149I	Data set: *datasetname* The LPR option TRANSLATETABLE or XLATETABLE name could not be loaded

Explanation

The translation option TRANSLATETABLE or XLATETABLE name cannot be loaded from disk.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Specify the translation TRANSLATETABLE or XLATETABLE option with a valid name of a data set. This search order is used:

1. translate_table_name.language_name
2. tcpip_hlq.translate_table_name.language_name
3. tcpip_hlq_name.STANDARD.language_name

Or check the IP PrintWay basic mode message log data set for indication of an I/O error.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1158I	Data set: *datasetname* The default single byte translate table could not be loaded

Explanation

The default single-byte translation table cannot be loaded from disk.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

The default single-byte translation table is loaded by using a valid name of a data set. This search order is used:

1. tcpip_hlq_name.LPR.TCPXLBIN
2. tcpip_hlq_name.STANDARD.TCPXLBIN

Or check the IP PrintWay basic mode message log data set for any indication of an I/O error.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1160I	The TCP/IP INITAPI call failed with an ERRNO value of *errno*

Explanation

The TCP/IP INITAPI call failed for this FSA and this job.

In the message text, *errno* is the TCP/IP ERRNO returned from INITAPI.

System action

The FSA continues processing.

Operator response

None.

System programmer response

Look up the ERRNO in the *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference* to determine the cause of the error.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1164I	Data set: *datasetname* The LPR option LANDSCAPE conflicts with a PostScript data set

Explanation

The formatting option LANDSCAPE was specified for a data set that is PostScript. These are incompatible options.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Remove the formatting LANDSCAPE option for a
PostScript data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1165I	Data set: *datasetname* The CC LPR option was specified for a PostScript data set, or a PostScript data set has carriage control

Explanation

The transmission protocol LPR option CC was specified
for a data set that is PostScript, or a PostScript data
set is detected as having carriage control characters in
it. These are incompatible formats.

In the message text, *datasetname* is the name of the
data set.

System action

IP PrintWay attempts to retransmit the document to
the printer. If this is the last retransmission attempt, IP
PrintWay either deletes the print job from the JES
spool or retains it on the JES spool. When the
retention time expires, IP PrintWay automatically
deletes the print job from the JES spool.

Operator response

None.

System programmer response

Print the data set as either a PostScript data set or as a
data set with carriage control.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1166I	Data set: *datasetname* At least one record was found with a carriage control that IP PrintWay does not support. The record was printed with a line feed, or a line termination string if one was specified. Verify that the output is correct.

Explanation

IP PrintWay basic mode supports ANSI and machine
carriage controls for Print (no space), Space 1 line,
Space 2 lines, Space 3 lines, and Skip to Channel 1. If
Use FCB is specified as a formatting option, Skip to
Channels 2-12 are also supported. All other controls
are not supported. Each record that has an
unsupported carriage control is printed by using single
space mode or the line termination string if one was
specified.

System action

None.

Operator response

None.

System programmer response

Verify that the printed output is correct.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1168I	Data set: *datasetname* A record greater than 5124 bytes or a non-variable blocked data set was returned on a GET macro for the DBCS translate table data set

Explanation

A double-byte translate table data set must have variable blocked format with a record length of 5124.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the double-byte translate table data set or specify another translate table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1169I	Data set: *datasetname* Data which is not valid was found in the DBCS translate table, loading has been stopped

Explanation

A double-byte translation table is being loaded for the data set named in the message. The translation table does not contain data in the format that is required for double-byte translation tables.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the double-byte translate table data set or specify another translate table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1170I	Dataset *datasetname* The DBCS translate table could not be found, loading has been stopped

Explanation

A double-byte translation table is being loaded for the data set named in the message. The language-specific translation table cannot be found in the translate table data set.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the double-byte translate table data set or specify another translate table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1171I	Dataset *datasetname* The DBCS translate table data set has a size greater than the maximum allowed

Explanation

A double-byte translation table that is being loaded for the data set named in the message has a size greater than 131 070 bytes.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the double-byte translate table data set or specify another translate table.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1172I   **Dataset** *datasetname* **The DBCS translate table data set OPEN call failed**

Explanation

The last data set in the search order cannot be opened for the data set named in the message.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

For the data set search order, see *z/OS Infoprint Server Operation and Administration*. One of these data sets must be cataloged on the system. Verify that the CONVXLAT program created the double-byte translate table data set that is specified by the table search hierarchy. For more information about CONVXLAT, see *z/OS Communications Server: IP Configuration Reference*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1173I   **Dataset** *datasetname* **During EBCDIC DBCS conversion to ASCII, the first double-byte character:** *firstchar* **is not valid**

Explanation

The first character of a double-byte character, with the specified value, is not in the valid range for EBCDIC double-byte characters.

In the message text, *datasetname* is the name of the data set. *firstchar* is the first character of a double-byte character in the data set.

System action

The erroneous character is translated by using a single-byte EBCDIC to ASCII translation table. If the translation mode uses shift-out and shift-in characters to delimit single-byte and double-byte ASCII data, a shift-in character is added before the erroneous character. Data continues to be translated by using the single-byte translation table until an EBCDIC shift-out character is encountered.

Operator response

None.

System programmer response

Make sure that the data set that is being transmitted contains valid EBCDIC double-byte characters. EBCDIC double-byte characters are enclosed in shift-out X'0E' and shift-in X'0F' characters.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1174I   **Dataset** *datasetname* **During EBCDIC DBCS conversion to ASCII, the second double-byte character:** *firstchar secondchar* **is not valid**

Explanation

The second character of a double-byte character, with the specified value, is not in the valid range for EBCDIC double-byte characters.

In the message text, *datasetname* is the name of the data set. *firstchar* is the first character of a double-byte character in the data set. *secondchar* is the second character of a double-byte character in the data set.

System action

The erroneous character is translated by using single-byte EBCDIC to ASCII translation tables. If the translation mode uses shift-out and shift-in characters to delimit single-byte and double-byte ASCII data, a shift-in character is added before the erroneous character. Data continues to be translated by using the single-byte translation table until an EBCDIC shift-out character is encountered.

Operator response

None.

System programmer response

Check the contents of the data that is being transmitted to see whether it contains valid double-byte characters. EBCDIC double-byte characters are enclosed in shift-out X'0E' and shift-in X'0F' characters.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1175I   **Dataset** *datasetname* **The DBCS translation table for the specified IP PrintWay DBCS translation type could not be loaded**

Explanation

The double-byte translation table cannot be loaded from disk. See previous messages for indication of an allocation error.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Specify the translation option TRANSLATETABLE or XLATETABLE with a valid name for a translate table. For the data set search order, see *z/OS Infoprint Server Operation and Administration*. One of the data sets in the search order must be cataloged on the system.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1180I　　Data set: *datasetname* **The data set is larger than the maximum document size.**

Explanation

A value was entered in the **Maximum document size** field of the printer definition but the data set is larger than the size specified. This field specifies the maximum document size to send to the printer or email destination.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay basic mode attempts to again transmit the data set named in the message. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions, and then deletes the data set. While the data set is on the JES spool, you can use Infoprint Server ISPF panels to change the printer definition's options and routing information, if necessary, and also to retransmit the data set if IP PrintWay basic mode completed all retransmissions. For more information, see *z/OS Infoprint Server Operation and Administration*.

Operator response

None.

System programmer response

Specify the target system to a system that has enough space, or modify the maximum document size option.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1190I　　Data set: *datasetname* **At least one record was found with a skip to a channel that is not defined in the FCB. The record was printed with a line feed, or with a line termination string if one was specified. Verify that the output is correct.**

Explanation

The data contains a skip to channel carriage control that causes a skip to a channel, which is undefined in the current active FCB. The line is printed, followed by a line feed or line termination string if the data set has a machine carriage control. If the data set has an ANSI carriage control, the line is preceded by a line feed or a line termination string.

System action

None.

Operator response

None.

System programmer response

Verify that the printed output is correct.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1193I   **Data set:** *datasetname* **FCB was specified, but the data set does not have carriage control**

Explanation

The formatting options that are associated with the failed job contain the option Use FCB, but the data set does not have a carriage control.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Do not select the Use FCB option in the **Formatting** field of the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1194I   **Data set:** *datasetname* **The OPEN call failed for SYS1.IMAGELIB**

Explanation

The return code from either the allocate or the open DCB for SYS1.IMAGELIB indicated an error.

System action

IP PrintWay basic mode releases the data set back to JES and requests that the system hold it.

Operator response

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

Make sure the SYS1.IMAGELIB is cataloged on the system.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1195I   **Data set:** *datasetname* **FCB** *FCBname* **was not found in SYS1.IMAGELIB**

Explanation

The FCB name specified was not found in SYS1.IMAGELIB with a prefix of FCB4, FCB2, or FCB3.

System action

IP PrintWay basic mode releases the data set back to JES and requests that the system hold it.

Operator response

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

Make sure that the member name is spelled correctly, and that the member exists in SYS1.IMAGELIB.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1196I	Data set: *datasetname* Member *FCBname* of SYS1.IMAGELIB was not loaded successfully

Explanation

The specified member of SYS1.IMAGELIB was not loaded successfully.

System action

IP PrintWay basic mode releases the data set back to JES and requests that the system hold it.

Operator response

To attempt to transmit the data set again, release the data set from hold status.

System programmer response

Make sure that the FCB is in the format that is created by the IEBIMAGE program.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1197I	Data set: *datasetname* The option FCB conflicts with a PostScript data set

Explanation

The formatting option Use FCB was specified for a PostScript data set. These are incompatible options.

In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Do not send a PostScript data set to a printer with the Use FCB option that is selected in the **Formatting** field of the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1198I	Data set: *datasetname* There was an error loading one of the ICONV tables: ICONV return code = *errno* document code page = *coded character set name* printer code page = *coded character set name*

Explanation

Function `iconv_open` failed because of an incorrect or unsupported code page that is specified in the Printer Inventory. In the message text, *datasetname* is the name of the data set, *errno* is the error number that is returned from `iconv_open`, and *coded character set name* is a code page name that is specified in the Infoprint Server Printer Inventory.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Make sure that the coded character set names are valid for your level of z/OS. For valid names, see *z/OS XL C/C++ Programming Guide*, sections "Code Set Converters Supplied" and "Universal Coded Character Set Converters". To correct a job that IP PrintWay basic mode is processing, use Infoprint Server ISPF panels to update the IP PrintWay basic mode transmission queue record for the data set. Specify a valid coded character set name in the translation options section of the queue record. Also, use Infoprint Server ISPF panels to correct the coded character set names in the **Document code page** and **Printer code page** fields in the printer definition in the Printer Inventory. The document code page might be specified in the FSS definition for IP PrintWay basic mode in the Printer Inventory instead of in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1200I	Data set: *datasetname* The LPR RECEIVE A PRINT JOB command failed because a print queue which is not valid was specified, or the LPD accepts jobs only in the well-known range of 721 to 731 Target host: *target host* Print queue: *print queue*

Explanation

IP PrintWay received an error when it sent the LPR RECEIVE A PRINT JOB command to the LPD. Some possible reasons for the error are:

- The print queue that is specified in the printer definition or in JCL is not correct.
- The network connection is not working.
- The LPD accepts print jobs only from ports in the well-known port ranges of 721 - 731.
- IP PrintWay is sending the print job to the Infoprint Server LPD on the z/OS system so that the data can be transformed, but the Infoprint Server LPD is not configured to receive print jobs at port 515. (IP PrintWay always sends print jobs to LPDs listening at port 515.) In this case, the target host in the message is the host name or IP address of the z/OS system and the queue name is the name of the Infoprint Server printer definition.
- IP PrintWay is sending the print job to InfoPrint Manager for AIX®, but the InfoPrint Manager LPD is not authorized to receive print jobs from the z/OS host.

In the message text, *datasetname* is the name of the data set, *target host* is the target host, *print queue* is the target print queue.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

See the message log for the possible related error messages and correct the error based on the messages.

Check these items:

- Verify that the print queue name is correct and that the print queue is running on the target host. If the print queue name is not correct, edit the printer definition or the JCL to specify the correct queue name.
- Check that the printer is turned on.
- Ping the printer to make sure that the network connection is working.
- If the LPD requires that the z/OS port is in the range 721 - 731, select the **Restrict ports** LPR option in the printer definition.
- If the target host is the z/OS system and the queue name is the name of the Infoprint Server printer definition, make sure that the Infoprint Server LPD is listening at port 515. For information about how to configure the Infoprint Server LPD to listen at port 515, see *z/OS Infoprint Server Customization*.
- If the target host is InfoPrint Manager for AIX, make sure that the host name or IP address of the z/OS system is specified in file `etc/hosts.lpd` on the AIX system. You can use this AIX command to add the z/OS system to the `etc/hosts.lpd` file:

```
smit mkhostslpd nnn.nnn.nnn.nnn
```

where *nnn.nnn.nnn.nnn* is the host name or IP address of the z/OS system.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1201I	Data set: *datasetname* The data set had an error on receiving an ACK from the LPD after sending all the print data Target host: *target host* Print queue: *print queue*

Explanation

One of these conditions occurred after IP PrintWay basic mode sent all the data for a print job to the LPD:

- The LPD returned a nonzero return code in response to the null byte that IP PrintWay sent after it sent all the data. See the IP PrintWay message log for any related error messages.
- The IP PrintWay response timeout value expired before the LPD responded. This situation can occur when IP PrintWay sends a large print job to the printer's LPD. It can also occur when IP PrintWay sends a large print job to the Print Interface LPD to be transformed to another data format.

In the message text:

- *datasetname* is the name of the data set.
- *target host* is the target host.
- *print queue* is the target print queue.

System action

IP PrintWay attempts to retransmit the document to the LPD. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Correct the error based on the messages in the IP PrintWay basic mode message log.

If Infoprint Server was sending a large job to the LPD when this error occurred, try increasing the value in the **Response timeout** field to 600 (10 minutes) in the printer definition for the printer.

If the *target host* is the address of the z/OS system and the *print queue* is the name of the printer definition, this indicates that IP PrintWay basic mode sent data to the Print Interface LPD to be transformed to another data format. The Print Interface LPD responds to IP PrintWay only after all data is transformed. Therefore, if you see this message, you might need to increase the performance of the Workload Manager service class that the transform daemons use so that the transform completes before the IP PrintWay response timeout value expires. For more information about Workload Manager, see *z/OS Infoprint Server Customization* and *z/OS MVS Planning: Workload Management*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1202I	Data set: *datasetname* The LPR RECEIVE CONTROL FILE command failed Target host: *target host* Print queue: *print queue*

Explanation

The LPD returned a nonzero return code from the RECEIVE CONTROL FILE command. Error messages that pertain to the error might be sent. See the message log for the related messages.

In the message text, *datasetname* is the name of the data set, *target host* is the target host, and *print queue* is the target print queue.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the error based on the messages in the message log.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1203I	Data set: *datasetname* The data set had an error on receiving an ACK from the LPD, after sending the control file Target host: *target host* Print queue: *print queue*

Explanation

A nonzero return code was received from the LPD after the control file is sent. Error messages that pertain to the error might be sent. See the message log for the related messages. The nonzero return code was in response to the null byte sent after the control file was sent to the LPD.

In the message text, *datasetname* is the name of the data set, *target host* is the target host, and *print queue* is the target print queue.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Correct the error based on the messages in the message log.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1204I	Data set: *datasetname* **The LPR RECEIVE DATA FILE command failed Target host:** *target host* **Print queue:** *print queue*

Explanation

The LPD returned a nonzero return code from the RECEIVE DATA FILE command. Error messages that pertain to the error might be sent. For the related messages, see the message log.

System action

None.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1205I	Data set: *datasetname* **The LPR RECEIVE DATA FILE OF UNSPECIFIED LENGTH command failed Target host:** *target host* **Print queue:** *print queue*

Explanation

The LPD returned a nonzero return code from the RECEIVE DATA FILE OF UNSPECIFIED LENGTH command. Error messages that pertain to the error might be sent. For the related messages, see the message log.

System action

None.

Operator response

None.

System programmer response

Verify that the LPD supports the RECEIVE DATA FILE OF UNSPECIFIED LENGTH command. Not all LPDs support this command.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1206I	Data set: *datasetname* The LPR RECEIVE CONTROL FILE FIRST command failed Target host: *target host* Print queue: *print queue*

Explanation

The LPD returned a nonzero return code from the RECEIVE CONTROL FILE FIRST command. Error messages that pertain to the error might be sent. For the related messages, see the message log.

System action

IP PrintWay basic mode again attempts to transmit the data set named in the message. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set. While the data set is on the JES spool, you can use Infoprint Server ISPF panels to change the printer definition's LPR options and routing information, if necessary, and also retransmit the data set if IP PrintWay basic mode completed all retransmissions. For more information, see *z/OS Infoprint Server Operation and Administration*.

Operator response

None.

System programmer response

Verify that the LPD accepts the RECEIVE CONTROL FILE FIRST command. Not all LPDs support this command.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1207I	Data set: *datasetname* The LPR RECEIVE A PRINT JOB command failed with a time out condition. This may be caused by an intervention on the printer or a printer problem. Target host: *target host* Print queue: *print queue*

Explanation

The LPD returned a nonzero return code, indicating a timeout condition from the RECEIVE PRINT JOB command. This condition might be caused by a printer problem such as an intervention condition.

In the message text, *datasetname* is the name of the data set, *target host* is the target host, and *print queue* is the target print queue.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

Check the printer for any abnormal conditions.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1208I   **Data set: *datasetname* A failure occurred after *nnn* copies were sent**

Explanation

IP PrintWay basic mode encountered an error while it was transmitting multiple copies of the same data set to the printer. In the message text, *datasetname* is the name of the data set, and *nnn* is the number of copies of the data set that were successfully sent to the printer. Another message explains the error.

System action

IP PrintWay basic mode tries the transmission again and attempts to transmit the remaining copies. If this is the final retransmission, or if no retransmissions are requested in the printer definition, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set. While the data set is retained on the JES spool, you can use Infoprint Server ISPF panels to retransmit the original number of copies that were requested to the same printer or to a different printer.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1209I   **Data set: *datasetname* The buffer limit for the BDS exit is exceeded.**

Explanation

The Begin Data Set (BDS) exit created more records than can fit into the buffer for the header separator page, or the exit might not be working correctly. The buffer is 32 K. In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay basic mode attempts to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

None.

System programmer response

Correct the BDS exit and ask the job submitter to resubmit the job.

User response

Resubmit the job after the problem is fixed.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1210I	Data set: *datasetname* The buffer limit for the EDS exit is exceeded.

Explanation

The End Data Set (EDS) exit created more records than can fit into the buffer for the trailer separator page, or the exit might not be working correctly. The buffer is 32 K. In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay basic mode attempts to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

None.

System programmer response

Correct the EDS exit and ask the job submitter to resubmit the job.

User response

Resubmit the job after the problem is fixed.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1605I	FSS/FSA: *fss/fsaname* Virtual storage could not be acquired for tracing so all tracing has been canceled

Explanation

IP PrintWay basic mode cannot acquire virtual storage for all required trace control blocks. The tracing stopped.

In the message text, *fss/fsaname* is the FSS name from the FSS definition or the FSA name.

System action

All tracing stopped.

Operator response

Inform your System Programmer that this error occurred.

System programmer response

Increase the REGION size that is specified in the startup procedure.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1606I	FSS/FSA: *fss/fsaname* Permanent I/O error occurred on trace data set: *synadaf text*

Explanation

The IP PrintWay basic mode SYNAD routine encountered a permanent I/O error while it was writing to the trace data set.

In the message text, *fss/fsaname* is the FSS name from the FSS definition or FSA name. *synadaf text* is the information that is returned by SYNADAF.

System action

Tracing stops.

Operator response

Inform your System Programmer that this error occurred.

System programmer response

Correct the error based on the information that the message provides.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1607I	FSS/FSA: *fss/fsaname* External tracing has started

Explanation

External trace records are now being generated.

In the message text, *fss/fsaname* is the FSS name from the FSS definition or FSA name.

System action

Tracing begins.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1608I	FSS/FSA: *fss/fsaname* External tracing has stopped

Explanation

External trace records are no longer being generated.

In the message text, *fss/fsaname* is the FSS name from the FSS definition or FSA name.

System action

Tracing stops.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1610I	FSS/FSA: *fss/fsaname* GTF return code = *retcode*

Explanation

Generalized Trace Facility (GTF) returned a nonzero return code from the GTRACE request. The return codes are:

4
    Inactive MVS GTF.

8
    Incorrect length.

C
    Incorrect data address.

10
    Incorrect FID.

14
    Incorrect EID.

18
    No GTF buffer space.

1C
    Incorrect parameter address.

20
    Data paged out.

xx
    Unknown GTF return code.

This message might be received validly when you are starting a trace. If the message is received, GTF was NOT started with the correct USR event IDs. You must specify USR=FD1 to GTF when it is started.

In the message text, *fss/fsaname* is the FSS name from the FSS definition or FSA name. *retcode* is the GTF return code.

System action

The action depends on the return code. For return codes 18 and 20, tracing continues to GTF. For all other return codes, GTF tracing stops.

Operator response

None.

System programmer response

For more information about the return codes, see *z/OS MVS Diagnosis: Tools and Service Aids*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1650I	Data set: *datasetname* The SNA initialization call failed with a return code = *code*

Explanation

An error occurred when IP PrintWay basic mode attempted to send a data set to a VTAM controlled printer.

In the message text, *datasetname* is the name of the data set and *code* is a code that can help the IBM service representative diagnose the error.

System action

IP PrintWay basic mode attempts to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

This message indicates a possible logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1651I	Data set: *datasetname* **The SNA BEGIN DATASET call failed with a return code =** *code*

Explanation

An error occurred when IP PrintWay basic mode attempted to send a data set to a VTAM controlled printer.

In the message text, *datasetname* is the name of the data set and *code* is a code that can help the IBM service representative diagnose the error.

System action

IP PrintWay basic mode attempts to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

This message indicates a possible logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1652I	Data set: *datasetname* **The SNA END DATASET call failed with a return code =** *code*

Explanation

An error occurred when IP PrintWay basic mode attempted to send a data set to a VTAM controlled printer.

In the message text, *datasetname* is the name of the data set and *code* is a code that can help the IBM service representative diagnose the error.

System action

IP PrintWay basic mode attempts to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay basic mode retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

This message indicates a possible logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1653I   **Data set:** *datasetname* **The SNA TERMINATE PRINTER call failed with a return code =** *code*

Explanation

An error occurred when IP PrintWay basic mode attempted to send a data set to a VTAM controlled printer.

In the message text, *datasetname* is the name of the data set and *code* is a code that can help the IBM service representative diagnose the error.

ANFM1654I   **Data set:** *datasetname* **A VTAM error has occurred: The VTAM request code=***code* **The VTAM feedback code =***code* **The VTAM system sense code=***code* **The VTAM RPL return code=***code* **The VTAM LU name=***luname*

Explanation

An error occurred while IP PrintWay basic mode was sending a data set to a VTAM controlled printer.

If the VTAM RPL return code = 16 and the VTAM system sense code = 083A, the IP PrintWay basic

IP PrintWay basic mode (ANF) messages and codes **89**

mode connection timeout value expired before IP PrintWay basic mode connected to the printer. The printer might be turned off.

In the message text, *code* is the code from VTAM and *luname* is the logical unit name of the VTAM controlled printer, which is specified in the printer definition in the Printer Inventory.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

If the **Connection timeout** value expires repeatedly when the printer is turned on, increase the value in the **Connection timeout** field in the printer definition. For information about the VTAM codes, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1655I	Data set: *datasetname* A VTAM STATE error has occurred: The state is *state*

Explanation

An error occurred while IP PrintWay basic mode was sending a data set to a VTAM controlled printer.

In the message text, *datasetname* is the name of the data set and *state* is the state from VTAM.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

This message indicates a possible logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1656I	Data set: *datasetname* A VTAM OPEN error has occurred: The return code = *code* The reason code = *code*

Explanation

A VTAM error occurred while IP PrintWay basic mode was trying to send a data set to a VTAM controlled printer.

In the message text, *datasetname* is the name of the data set and *code* is the return code or reason code from VTAM.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

For information about the VTAM return code, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1657I	Data set: *datasetname* The transmission was successful but was canceled at the printer.

Explanation

The operator canceled the print job at the printer after all data was transmitted. In the message text, *datasetname* is the name of the data set.

System action

IP PrintWay basic mode deleted the data set from the JES spool. IP PrintWay basic mode processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1658I	Data set: *datasetname* The transmission failed because the timeout timer expired, there is a possible intervention at the printer.

Explanation

The data set was not completely transmitted to the printer because the time specified in the **Response timeout** field of the printer definition in the Printer Inventory expired. This message can occur if the printer requires intervention, such as when the printer is out of paper, or if the printer is offline.

In the message text, *datasetname* is the name of the data set at the time of the error.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Correct the problem at the printer.

System programmer response

If the response timeout value expires repeatedly when the printer is turned on, increase the value in the **Response timeout field** in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1659I	Data set: *datasetname* The SNA attachment function code at the time of the error: *functioncode*

Explanation

An associated message identifies the SNA error that occurred.

In the message text, *datasetname* is the name of the data set at the time of the error and *functioncode* is an IP PrintWay basic mode code that identifies the IP PrintWay basic mode function at the time of the error. This code can help IBM determine the cause of the error.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify the system programmer that this error occurred.

System programmer response

See the system programmer response for IP PrintWay basic mode message ANF1654I.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1700E	Data set: *datasetname* The *function* failed while processing data set *datasetname* with the message *message*.

Explanation

A print function failed.

In the message text, *function* is the function that failed. *datasetname* is the name of the data set that IP PrintWay basic mode was processing at the time of the error. *message* is the message that contains more information about the error.

System action

See the system action for message *message*.

Operator response

None.

System programmer response

See the system programmer response for message *message*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

ANFM1704W	The destination *printer-url* does not support the attributes {*attribute-list*}.

Explanation

IP PrintWay basic mode used the Internet Printing Protocol (IPP) to transmit a data set to the indicated printer. However, the printer does not support all of the IPP job attributes that IP PrintWay basic mode sent with the data set. The job submitter might specify the IPP job attributes, or Infoprint Server might generate the IPP job attributes from corresponding Infoprint

Server job attributes, JCL parameters, or printer attributes that are specified in the printer definition for the target printer.

In the message text, *printer-url* is the Uniform Resource Locator (URL) of the target printer. *attribute-list* is the list of unsupported IPP job attributes.

System action

The printer accepted the print request, but ignored the listed IPP job attributes. The output might not print as expected.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

IP PrintWay basic mode system completion code and abend reason codes

The system completion code for abends that Infoprint Server issues is 09B. The reason code indicates whether IP PrintWay basic mode issued the abend:

00000000 – 00000EA1
Indicates that IP PrintWay basic mode issued the abend. These codes are explained here.

0000FFFF – 00FFFFFF
Indicates that another component of Infoprint Server issued the abend. See "Infoprint Server system completion codes and reason codes" on page 348 for an explanation of these codes.

IP PrintWay basic mode displays message ANFM102I with the system completion code and the associated abend reason codes. The last 2 bytes of the abend reason code are described here.

0004

Explanation

The ESTAI call to establish ESTAI failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0008

Explanation

GETMAIN call failed for FSS-related control blocks.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0009

Explanation

GETMAIN for TCP/IP global workarea failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

000A

Explanation

INITAPI failed for TCP/IP socket interface.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

000B

Explanation

GETMAIN for TCP/IP task area failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

000C

Explanation

A parameter was not valid or no parameter was passed on the MVS START command.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

000D

Explanation

The GETMAIN call to trace the control blocks below the 16 MB line failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0010

Explanation

The FSS level FSI connect request failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0014

Explanation

An incorrect parameter was specified on the START command.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

001C

Explanation

The ATTACH call for QSCAN failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0020

Explanation

IP PrintWay basic mode detected an FSI order that was not valid.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0024

Explanation

The FSI RELDS request failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0028

Explanation

The FSI CHKPT request failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

002C

Explanation

The FREE request is not valid.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0030

Explanation

The request to disconnect the FSS level FSI failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0034

Explanation

The FREEMAIN macro for the FSS level courier control blocks failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0038

Explanation

The ESTAI macro to cancel ESTAI failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0039

Explanation

The load of module AOXVTM failed. IP PrintWay basic mode attempts to load AOXVTM if an APPL ID is specified in the FSS definition for IP PrintWay basic mode in the Printer Inventory. Module AOXVTM is part of Coax Printer Support V1.1 (5697-F51).

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Either install Coax Printer Support or remove the APPL ID statement from the FSS definition. You must restart the IP PrintWay basic mode FSS to pick up changes to the FSS definition.

0048

Explanation

An incorrect subsystem name was specified on the START command.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0060

Explanation

Call to the data base included an incorrect length field.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0061

Explanation

Call to the database encountered a bad token.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0062

Explanation

Call to the database encountered an incorrect length field.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0063

Explanation

Call to the database encountered a bad token.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0073

Explanation

The DETACH call for the FSA subtask failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0074

Explanation

The Queue Manager component failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0076

Explanation

The ATTACH call for the FSA subtask failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0079

Explanation

SDUMP request for STOP FSS order DUMP option returned an incorrect return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

007A

Explanation

A STOP FSS order with the ABEND and DUMP options was received.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested by the operator. None.

007B

Explanation

IP PrintWay basic mode received a STOP FSS order with the ABEND and NODUMP options.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested by the operator. None.

00D2

Explanation

A failure occurred in SJF FIND when finding the default output SWB.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

00D3

Explanation

A failure occurred in SJF FIND when finding the output SWB.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

00D4

Explanation

A failure occurred in the SJF RETRIEVE when obtaining the keyword parameters.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

00D5

Explanation

An incorrect matrix pointer was received as a parameter.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

00D6

Explanation

The SJF parameter and the matrix lengths do not match.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

00D7

Explanation

A failure occurred in module or macro SJFREQ GETSWB.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0100

Explanation

The MODCB macro for initialization of the ACB transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0101

Explanation

The GENCB macro for initialization of transmission queue RPL failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0102

Explanation

The GETMAIN call below the 16 MB line for FSA-related control blocks failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0103

Explanation

The MODCB macro for sequential read of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0104

Explanation

An I/O error occurred during the sequential read of the transmission queue.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0105

Explanation

The MODCB macro for direct read of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0106

Explanation

The GET call of the transmission-queue record failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0107

Explanation

The ERASE action of the transmission-queue record failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0108

Explanation

The FSS-FSA connection failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0109

Explanation

The CLOSE action of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

010A

Explanation

The ENDREQ call to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

010B

Explanation

The OPEN call to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

010C

Explanation

The IEFSSREQ macro requesting JES3 level information failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0116

Explanation

The GETMAIN operation failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0118

Explanation

The FSI SEND request (to inform JES that FSA initialization was not successful) failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

011C

Explanation

IP PrintWay basic mode detected an incorrect state.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0120

Explanation

The FSI SEND request to reply to the order failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0121

Explanation

The state for the change state request is incorrect.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0122

Explanation

The FREEMAIN of storage kept across restarts failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0124

Explanation

The FSI GETDS request to acquire a data set failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0144

Explanation

An error occurred while IP PrintWay basic mode was getting a record from JES.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0145

Explanation

The GETMAIN call failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0158

Explanation

"Stop device" order with the ABEND and NODUMP options was received. No SDUMP is generated.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested by the operator. None.

0160

Explanation

An FSA-level FSI disconnect request failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0164

Explanation

FREEMAIN for the FSA-level courier control blocks failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service

representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

016C

Explanation

The WTO call failed for an FSA initialization-failure message.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0170

Explanation

A TIMEP macro error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0184

Explanation

FSI SEND request failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0198

Explanation

"Stop device" order with the ABEND and DUMP options was received.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested by the operator. None.

01BC

Explanation

SDUMP request for the "stop device" order with DUMP option returned an incorrect return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

01D8

Explanation

"Stop FSA" order with ABEND and DUMP options specified was received.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested by the operator. None.

01DC

Explanation

"Stop FSA" order with ABEND and NODUMP options specified was received.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested by the operator. None.

01F0

Explanation

SDUMP request for "stop FSA" order with DUMP option returned an incorrect return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0201

Explanation

The ATTACH call to the timer subtask failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0202

Explanation

The MODCB call for initialization of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0203

Explanation

The GENCB call for initialization of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0204

Explanation

The MODCB call for sequential read of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0205

Explanation

An I/O error occurred during the sequential read of the transmission queue.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that you used the ANFQINIT job to initialize the IP PrintWay transmission-queue data set before you run IP PrintWay basic mode.

If the transmission-queue data set contains queue entries when IP PrintWay is not running, the data set is probably corrupted. In this case, delete the transmission-queue data set, use the ANFDEAL job to allocate the data set again, and use the ANFQINIT job to initialize it.

For information about how to allocate and initialize the transmission-queue data set, see *z/OS Infoprint Server Customization*.

If the transmission-queue data set is initialized and the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0206

Explanation

The MODCB call for direct read of the transmission queue failed after the data set was posted.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0207

Explanation

The MODCB call for direct read of the transmission queue failed when checking data to post.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0208

Explanation

The PUT call for the transmission queue record failed, locking the record.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0209

Explanation

The MODCB call for direct read of transmission queue failed, for cleanup.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

020A

Explanation

The GET call to the transmission-queue record failed, for cleanup.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

020B

Explanation

The PUT call of the transmission-queue record failed, for clearing leftover lock.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

020C

Explanation

The ERASE of the transmission-queue record failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

020D

Explanation

The CLOSE of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

020E

Explanation

The GET call for direct read of transmission-queue record failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

020F

Explanation

The GET call for direct read of transmission-queue record failed—I/O error.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the

IBM Support Center, or use your electronic link with IBM service for assistance.

0210

Explanation

The OPEN call to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0211

Explanation

The ERASE of the record of the transmission queue failed while releasing the data set.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0212

Explanation

The PUT of the record to the transmission queue failed while updating status for requeue.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0213

Explanation

The ENDREQ call to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0214

Explanation

Status ECB posted with incorrect code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0250

Explanation

A dynamic allocation failure occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

02A1

Explanation

No record was passed from the FSA.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

02A2

Explanation

The MODCB call for the initialization of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

02A3

Explanation

The GENCB for the initialization of the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

02A4

Explanation

The MODCB call for the record put into the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the

IBM Support Center, or use your electronic link with IBM service for assistance.

02A5

Explanation

The PUT of the record to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Check the z/OS system log for data management messages (with IEC message IDs) that pertain to the IP PrintWay transmission-queue data set (the default name is ANF.QUEUE). If these messages report I/O errors or end of volume conditions, correct the problem.

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

02A6

Explanation

The transmission queue staging module attempted to exit while jobs were still on its staging queue.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

02A7

Explanation

The CLOSE call to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the

IBM Support Center, or use your electronic link with IBM service for assistance.

02A9

Explanation

The OPEN call to the transmission queue failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that the data in the IP PrintWay basic mode transmission-queue data set is not corrupted. If the data is valid, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0300

Explanation

The LPR buffer pointer is pointing outside the buffer range.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0301

Explanation

A select logic error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0302

Explanation

The record length is too long for the translation buffer.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0303

Explanation

The SWRITE call for hiperspace received a nonzero return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0304

Explanation

The hiperspace buffer and the number of blocks to write to hiperspace do not match.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0305

Explanation

The GET call from hiperspace received a nonzero return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service

representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0306

Explanation

The RELEASE of hiperspace extended area received a nonzero return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0307

Explanation

The remaining space in the hiperspace area is not as large as the buffer.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible system error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0308

Explanation

Data exists in hiperspace when it all should have been sent.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0309

Explanation

A nonzero return code was received from ANFLGHPR.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0310

Explanation

An incorrect DBCS translate option was received by ANFLDBCS.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0311

Explanation

An incorrect carriage control type was received.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0312

Explanation

The length of the cc buffer was exceeded.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0313

Explanation

The storage used to construct the LPD control file was exceeded.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0400

Explanation

There was an error writing to the IP PrintWay basic mode message file.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0500

Explanation

ANFFSNA detected that an IP PrintWay basic mode installation-written exit provided a record that is greater than 32 KB.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Correct the error in the IP PrintWay basic mode Begin Record, Record, or End Record exit. For information about how to write IP PrintWay basic mode exits, see *z/OS Infoprint Server Customization*.

0502

Explanation

Module ANFFSNA detected an internal timer error.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0503

Explanation

Module ANFSLINE detected an internal timer error.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0506

Explanation

Module ANFSLINE detected that a product is disabled or a service is not available.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0507

Explanation

Module ANFSLINE detected a state error in module AOXVTM.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service

representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0508

Explanation

Module ANFFSA detected a state error in module AOXVTM.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0509

Explanation

Module ANFFSNA detected that a product is disabled or a service is not available

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0600

Explanation

The OBTAIN macro for storage failed in module COPSPAWN.S.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0601

Explanation

The ATTACH macro for module AOPSPAWN failed in module COPSPAWN.S.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0602

Explanation

The ATTACH macro for a TCB failed in module COPSPAWN.S.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0603

Explanation

The WAIT macro for a task ECB failed in module COPSPAWN.S.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that module AOPSPAWN is in SYS1.LINKLIB. If module AOPSPAWN is present, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0604

Explanation

The OBTAIN macro for storage failed in module COPOPEN.S.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09B1

Explanation

An error occurred in traversing the CIB data processing command. The CIB contains the information that is specified in the MODIFY command for IP PrintWay basic mode.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09B2

Explanation

An error occurred in traversing the CIB data processing printer name. The CIB contains the information that is specified in the MODIFY command for IP PrintWay basic mode.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09B3

Explanation

An error occurred in traversing the CIB data-processing keyword. The CIB contains the information that is specified in the MODIFY command for IP PrintWay basic mode.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09B4

Explanation

An error occurred in traversing the CIB data-processing parameter. The CIB contains the information that is specified in the MODIFY command for IP PrintWay basic mode.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09B8

Explanation

The printer name in an internal command list has a length of zero. A printer name is required.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09B9

Explanation

An incorrect parameter code was found in the internal command list.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C0

Explanation

The incorrect interface block ID is not 'IPB'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C1

Explanation

The incorrect interface request block ID is not 'IRB'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C2

Explanation

The incorrect queue header ID is not 'QH'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C4

Explanation

The incorrect common control block ID is not 'CCB'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C5

Explanation

The incorrect FSA level control block ID is not 'SAB'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C6

Explanation

The incorrect FSA queue element ID is not 'SAE'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C7

Explanation

The incorrect FSS queue control block ID is not 'SAQ'.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09C9

Explanation

The queue request that is contained in the IRB is not valid.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09CA

Explanation

The request that is contained in the IRB is not valid.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09D5

Explanation

The MVS DETACH call did not succeed in detaching ANFZCMND.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

09D6

Explanation

The MVS FREEMAIN macro failed to release ANFZCMND storage.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

To determine why FREEMAIN failed or returned unexpected results, see the z/OS information that explains system macros. If FREEMAIN reported that the storage requested to be freed is not owned by IP PrintWay basic mode, this indicates an IP PrintWay basic mode logic error. If it is a logic error, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09D7

Explanation

The ATTACH call failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

09E0

Explanation

No free queue headers.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09F0

Explanation

ANFZFORC received an incorrect command.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09FE

Explanation

The QEDIT macro failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

0D00

Explanation

Incorrect parameter list.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D01

Explanation

An element is not available in the new storage block.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D03

Explanation

An element is not available in the initial storage block.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D04

Explanation

An element is not available in the new chain of storage blocks.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D05

Explanation

The GETMAIN module sent a nonzero return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0D06

Explanation

Storage is not available in a new pseudo-subpool block.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D07

Explanation

A request for page-fixed storage crosses a 4 KB boundary.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D08

Explanation

A pseudo-subpool block does not exist.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D09

Explanation

A pseudo-subpool chain does not exist.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D0A

Explanation

A request for page-fixed storage failed. A nonzero return code was received from PGFIXP.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros.

0D0B

Explanation

The GETMAIN call failed when getting storage for a new control block.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the IP PrintWay basic mode startup procedure.

0D10

Explanation

The type of FREEMAIN request that was received by IP PrintWay basic mode was not valid.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D11

Explanation

An element to be freed was not in use.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D12

Explanation

No pseudo-subpool storage blocks exist.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D13

Explanation

No element storage blocks exist.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D14

Explanation

The correct element storage-block chain cannot be located.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D15

Explanation

The element address was not in the bounds of any of the storage blocks.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D16

Explanation

A page free of specified storage failed. A nonzero return code was received from PGFREEP.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D17

Explanation

The storage block chain for the specified pseudo subpool cannot be found.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D18

Explanation

A nonzero return code was received from the system FREEMAIN macro.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

To determine why the macro failed or returned unexpected results, see the information for your operating system that explains system macros. If FREEMAIN reported that the storage requested to be freed is not owned by IP PrintWay basic mode, this indicates an IP PrintWay basic mode logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D19

Explanation

The free element counter for the storage-management control block structure indicates how many free elements are available. A free element was expected, but not found, in the storage-management control block structure.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D20

Explanation

The ANFXRETN macro sent this abend code for termination on a particular reason code as specified on the DUMP JCL parameter.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This abend was requested. None.

0D21

Explanation

The request for element-type memory exceeds the maximum memory allowed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D22

Explanation

The CEEPIPI service sent a nonzero return code.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Tip: Save the job log for the IP PrintWay basic address space because it might contain a CEEDUMP snapshot that can help with problem determination.

0EA0

Explanation

The Begin Data Set exit specified a document header length greater than 292 bytes in field XTP_DOC_HEADER_LENGTH.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Correct the Begin Data Set exit.

0EA1

Explanation

The Begin Data Set exit specified a document trailer length greater than 292 bytes in field XTP_DOC_TRAILER_LENGTH.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Correct the Begin Data Set exit.

0EA2

Explanation

The Begin Data Set exit exceeded the document header area in storage.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Correct the Begin Data Set exit.

0EA3

Explanation

The Begin Data Set exit exceeded the document trailer area in storage.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Correct the Begin Data Set exit.

0EA4

Explanation

The Begin Data Set exit changed field XTP_DOC_HEADER_PTR, which points to the document header area.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Correct the Begin Data Set exit.

0EA5

Explanation

The Begin Data Set exit changed field XTP_DOC_TRAILER_PTR, which points to the document trailer area.

System action

Correct the Begin Data Set exit.

System programmer response

None.

0E50

Explanation

The operator stopped the IP PrintWay basic mode FSS with the MVS MODIFY FORCE command.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

None.

0E90

Explanation

The hiperspace initialization failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E91

Explanation

The INITAPI call failed. TCP/IP might not be started, or the TCP/IP job name that is specified in the TCPIPJOBNAME statement in the TCPIP.DATA data set is not valid, or the job name is a symbolic name. IP PrintWay does not support symbolic names.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Make sure that TCP/IP is started. The TCP/IP job name that IP PrintWay basic mode uses must match the job name of TCP/IP that is running on the system. You can find the TCP/IP job name that IP PrintWay basic mode uses in the IP PrintWay basic mode FSS definition. If no IP PrintWay basic mode FSS definition exists, or if no TCP/IP name is specified in the FSS definition, IP PrintWay basic mode uses the name TCPIP as the default name.

If the job name is symbolic, do one of these:

• Specify the TCP/IP job name in the IP PrintWay FSS definition. IP PrintWay uses this TCP/IP name instead of the one specified in the TCPIPJOBNAME statement. However, because the TCPIPJOBNAME

statement contains a symbolic name, IP PrintWay writes message `ANFM016I Invalid TCP/IP jobname` to the console for each IP PrintWay functional subsystem (FSS). You can ignore this message.

- Create a TCPIP.DATA data set for IP PrintWay to use. In the new data set, replace the symbolic TCP/IP job name with the actual TCP/IP job name. Specify the new TCPIP.DATA data set in the SYSTCPD DD statement in the IP PrintWay startup procedure. In this case, IP PrintWay does not write message ANFM016I to the console.

If you want to change the TCP/IP job name that IP PrintWay basic mode uses, use the Infoprint Server ISPF panels to create an IP PrintWay FSS definition for the IP PrintWay basic mode FSS and specify the TCP/IP job name in the **TCP/IP job name** field. Then, restart the IP PrintWay basic mode FSS to pick up the change. For more information, see *z/OS Infoprint Server Customization*.

If the TCP/IP job names match, this IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E92

Explanation

A bad IP address was encountered when trying to connect to TCP/IP.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

Start TCP/IP if it is not already started. If TCP/IP is already started, this reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E93

Explanation

A state machine error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service

representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E94

Explanation

A select logic error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E95

Explanation

A TIME macro error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E96

Explanation

A select logic error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E97

Explanation

A select logic error occurred.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E98

Explanation

The TCP/IP GETHOSTID call failed.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E99

Explanation

A CEEPIPI failure occurred at LOAD.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0E9A

Explanation

A CEEPIPI failure occurred at initialization.

System action

IP PrintWay basic mode ends abnormally.

System programmer response

This IP PrintWay basic mode abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Chapter 2. Infoprint Server (AOP) messages and codes

The messages and codes for all components of Infoprint Server except IP PrintWay basic mode and the NetSpool started task are described here.

Tip: Use the ISPF help function for information about ISPF panel messages.

AOP message format

Messages have this format:

AOP[*s*]*nnnnt message_text* [(program:*daemon*)]

AOP
> Identifies Infoprint Server messages.

s
> Optional source code:
>
> **H**
> > The message is from an Infoprint Server health check.
>
> **IM**
> > The message is from the Infoprint Server ISPF panels.
>
> **S**
> > The message is from the Print Interface subsystem.
>
> If the source code is not present, the message is from another component of Infoprint Server.

nnnn
> Three to four-digit message number.

t
> Severity code:
>
> **E**
> > An error occurred.
>
> **I**
> > Information message.
>
> **S**
> > A severe error occurred.
>
> **T**
> > A situation occurred that caused the program to end.
>
> **W**
> > A warning situation occurred.

message_text
> The message text.

daemon
> The name of the Infoprint Server daemon that issued the message. The daemon name is present only if the message was written by a daemon to the console or to the NetSpool or IP PrintWay log data set. For the possible daemon names, see "Format of messages in the Infoprint Server common message log" on page 124.

Format of messages in the Infoprint Server common message log

Infoprint Server administrators can use the **aoplogu** command to select messages from the Infoprint Server common message log in a particular time range and copy them to a file or view them on the terminal. For information about the **aoplogu** command, see *z/OS Infoprint Server Operation and Administration*.

The **aoplogu** command returns messages in this format:

```
date time priority:level user:id system:name inventory:name [job:id]
[filename:name] [dsn:name] [output_device:name] [job_selection_rule:name]
[fsa:name] [luname:name] [jes_jobname:name] [program:name] msg:message
```

For example:

```
5/19/13 17:04:13 (UTC-7) priority:info user:OMVSID system:SYS1 inventory:AOP1
job:PS000469 output_device:lpr://myprinter.xyz.com/RAW
program:aopoutd msg:AOP3613I The print job was completed successfully.
```

The optional items start with a tag that identifies them.

Field
> **Description**

date
> The date the message was written.

dsn
> The fully qualified data set name that JES assigns. The document name is the last qualifier. The # symbol in the document name replaces any character that JES does not allow in a document name. For example, if the last 8 characters of the document name are `file.lwp`, this field contains `FILE#LWP`. This field might not contain the system ID, which is the first qualifier in a fully qualified data set name.

filename
> The name of the file to be printed. Blanks are converted to an underscore (_).

fsa
> The name of the JES functional subsystem application (FSA) for the PSF printer.

inventory
> The name of the Printer Inventory.

jes_jobname
> The job name, or the name of the job submitter or owner:
>
> - For a batch job, the name of the job that created the print job.
> - For print requests submitted from remote systems (such as Windows), the first 8 characters of the logon name that is used on the remote system. A # symbol in the name replaces a character (such as a period) that z/OS does not allow in the job name.
> - For print requests submitted from VTAM applications (such as CICS® or IMS), the owner name in the data stream, the default owner in the printer definition, or the name of the NetSpool startup procedure.

job
> The job ID.
>
> - A job ID with a PS prefix indicates that Infoprint Server created the output data set on the JES spool. (Your installation can specify a different job prefix in the **job-prefix** attribute in the system configuration definition.)
> - A job ID with a JOB, STC, or TSU prefix indicates that either JES or the Print Interface subsystem created the output data set on the JES spool.
> - Job submitters can specify the **sysout-job-id** job attribute to override the job ID.

job_selection_rule
> The name of an IP PrintWay job selection rule that IP PrintWay extended mode uses to select the print job from the JES spool for processing.

luname
> The NetSpool logical unit (LU) name for the printer.

msg
> The message number and text.

output_device
> An identifier of the IP PrintWay extended mode printer where the print job printed or is scheduled to print, in one of these formats:

> **direct_sockets://***hostname:port*
>> The host name and port number of the IP PrintWay printer.

> **lpr://***hostname/queue*
>> The host name and print queue name of the IP PrintWay printer.

> **mailto:**
>> An indication that the output data set is to be sent to an email destination.

> *uri*
>> The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

>> `ipp://myprinter.xyz.com`

>> `http://myprinter.xyz.com:631`

> *fsa_name*
>> The name of the JES functional subsystem application (FSA) for the PSF printer.

priority
> The severity of the message:

> **action**
>> A situation occurred that ended processing.

> **error**
>> An error occurred.

> **info**
>> An information message.

> **severe**
>> A severe error occurred.

> **warning**
>> A warning situation occurred.

program
> The name of the Infoprint Server daemon, command, or program that issued the message:

> **aopd**
>> The Printer Inventory Manager daemon.

> **aopd.JESStatusDaemon**
>> The Printer Inventory Manager status daemon.

> **aopd.JESScavenger**
>> The Printer Inventory Manager scavenger daemon.

> **aopippd**
>> The IPP Server daemon. It processes print requests from remote clients that use the Internet Printing Protocol (IPP).

> **aoplpd**
>> The line printer daemon (LPD). It processes print requests from remote clients that use the TCP/IP line printer requester (LPR) protocol.

aopnetd

The NetSpool daemon. Together with the NetSpool started task, it processes print requests from VTAM applications such as CICS and IMS.

aopoutd

An IP PrintWay extended mode daemon. It sends output to remote printers in the Internet Protocol network and to email destinations.

aopsapd

The SAP callback daemon. It handles callback notification for the SAP Output Management System (OMS).

aopssid

The Infoprint Central daemon. It communicates with JES.

aopsubd

The Print Interface subsystem daemon. It processes output data sets that specify the Print Interface subsystem on the SUBSYS parameter of the DD statement.

aopwsmd

An IP PrintWay extended mode daemon. It uses the IP PrintWay job selection rules in the Printer Inventory to select output data sets from the JES spool.

aopxfd

The Infoprint Server Transform Manager daemon. It manages other transform daemons, which transform data from one format to another.

cancel

The `cancel` command.

InfoprintCentral

Infoprint Central.

lp

The `lp` command.

PSF_z/OS

PSF for z/OS.

NetSpool started task

The name of the NetSpool started task. Together with the NetSpool daemon, it processes print requests from VTAM applications such as CICS and IMS.

other values

The name of an Infoprint Server program or the name of a program that used the Infoprint Server application programming interface (API).

system

The 1–8 character name for the MVS system.

time

The time that Infoprint Server wrote the message, followed by the time zone. For information about time zones, see *z/OS UNIX System Services Command Reference*.

user

The z/OS user ID or the name of the user who submitted the print job, the z/OS user ID of the user who did the Infoprint Central action on the print job, or the z/OS user ID of the user who started the Infoprint Server daemons.

Messages

AOP001E	Printer *printer-name* is not defined.

Explanation

The print request specified a printer definition that is not defined in the Infoprint Server Printer Inventory or is defined in the Printer Inventory but its matching output device object is not built yet.

The printer definition name might be specified on a command, such as the **lp**, **lpr**, or AOPCMND command, or in the SUBSYS parameter on the DD statement.

In the message text, *printer-name* is the name of the requested printer definition. lp1 is the name of the Infoprint Server default printer definition, which is used if no other printer definition name is specified.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Define a printer in the Printer Inventory if requested.

User response

Make sure that you spelled the name of the printer definition correctly, and used the correct uppercase and lowercase characters. If you specify the name of the printer definition in the SUBSYS parameter of a DD JCL statement, enclose the printer definition name in single quotation marks if it contains lowercase characters.

If the name is lp1, specify the name of the printer definition on the print command or in the SUBSYS parameter on the DD JCL statement. If you use the **lp** command, you can instead specify the name of the printer definition in the PRINTER or LPDEST environment variable.

You can run the z/OS UNIX **lpstat -p** command to get a list of available printers in the Printer Inventory.

- If a definition for the printer that you specified exists but IP PrintWay was recently restarted, wait for the matching output device object to be built, and then enter the command or run the job again.
- If another appropriate printer definition exists, enter the command or run the job again, specifying that printer.
- Otherwise, ask your administrator to define an appropriate printer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP002I **Job *jobid* has completed processing or has been deleted.**

Explanation

All data sets allocated on the system spool for the print job with job ID *jobid* completed processing. After this message, the job ID and final status of the data set is reported. The final status can be one of these:

completed
    The file was processed successfully.

failed
    Processing failed.

purged
    The file was deleted before printing.

For completed or failed data sets, the files remain on the JES spool for one of these reasons:

- Your administrator specified that files are retained after transmission to a LAN printer or to a print server. The file is removed from the spool when the retention period expires.
- An error caused the data set to be retained on the spool.

Data sets are removed from the spool for reasons such as:

- The data set finished printing.
- The data set was transmitted to a remote system or printer for printing. In this case, the data set might not be finished printing, or a transmission failure might have occurred.
- The operator deleted the data set from the system spool.
- The system programmer offloaded all SYSOUT data sets from the JES spool.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP003E   *objectname*: [*errmsgno*] *errmsgtext*

Explanation

A file error, filter error, or system error occurred. *objectname* is the name of the file, filter program, sendmail command, printer address, or other object in error. *errmsgno errmsgtext* is the message number, if available, and the message text that is generated by a system program or by the filter program.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

See the description for message *errmsgno*.

- If *objectname* is a printer address and the error message indicates a TCP/IP connection error, ping

the printer to check that the printer is turned on and the Internet Protocol network is working.

- If an Infoprint Server module cannot be found, make sure that the LIBPATH environment variable is set correctly. For more information, see *z/OS Infoprint Server Customization*.
- If the error text indicates a RACF® error, a SAF error, or a permission error, run the **aopsetup** EXEC to set permissions. For example, if you use the default group names for Infoprint Server operators (AOPOPER) and administrators (AOPADMIN), enter:

```
/usr/lpp/Printsrv/bin/aopsetup aopoper
aopadmin
```

For more information about the **aopsetup** shell script, see *z/OS Infoprint Server Customization*.

User response

If you specified *objectname*, make sure that the name is valid. Also, see the description for message *errmsgno*. If you did not specify *objectname*, contact your system programmer for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP004E   A system error occurred during processing.

Explanation

A system error occurred during the processing of the request. This message might be followed by message AOP047E, which contains diagnostic information.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Look for other messages that indicate the reason for the failure on the terminal where Infoprint Server was started or in the console log.

If a message indicates a RACF or SAF error (such as, message EDC5164I):

- Make sure the user ID that starts Infoprint Server is a valid z/OS UNIX user ID. The user ID must have an OMVS segment, the default group for the user ID must have an OMVS segment with a group identifier (GID), and the user ID must have a home directory. The user identifier (UID) for the user must be different from other UIDs in the installation.

  Note: If you use a JCL procedure to start Infoprint Server, check the user ID that is associated with this procedure.

- Make sure that the password for the user ID that starts Infoprint Server is not expired.

- Run the **aopsetup** shell script to set up the correct z/OS UNIX permissions for Infoprint Server directories and executable files.

For information about how to set up security for Infoprint Server and how to run the **aopsetup** shell script, see *z/OS Infoprint Server Customization*.

If you cannot correct the problem, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP006E **Job ID:** *jobid* **is not valid.**

Explanation

A request was submitted with a job ID that is not valid.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Submit the request with a valid job ID.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP007I **Job** *infoprint-jobid* **[(***zos-jobid***)]** **spooled to** *printer-name***.**

Explanation

Infoprint Server created a print job and successfully allocated at least one document on the JES spool. If

an error occurs processing a document, Infoprint Server issues a separate message for that document.

In the message text:

infoprint-jobid
    The ID of the print job that Infoprint Server assigned.

zos-jobid
    The ID of the print job that JES assigned.

printer-name
    The name of the printer to which the job was submitted. The printer name is the name that is assigned to the printer definition for the printer in the Infoprint Server Printer Inventory.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP008E	Option *option* argument missing.

Explanation

A request was submitted with an option that is missing a required argument.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

For the **lp**, **lpstat**, or **cancel** command, view the appropriate man page for the correct options. For other requests, see the necessary documentation. Enter the request again with the required argument.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP009E	Option: "*option*" is not valid.

Explanation

This message can be sent by most commands and filters. It indicates that the user specified an option character with the command, with the filter-options attribute, or on the filter that is defined for the printer. The message is typically preceded by the program that sends it. The message is often followed by the usage message for the command or filter.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Check the printer definition that is associated with the print job for the cause of the error. If the printer definition did not cause the error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Reenter the command with the correct options character. If you are not entering an incorrect options character, contact the system programmer.

For the **lp**, **lpstat**, or **cancel** command, view the appropriate man page for the correct options. For other requests, see *z/OS Infoprint Server User's Guide*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP010E   **Dynamic allocation of data set *dsname* failed: return code *retcode*, error code *errorcode*, info code *infocode*.**

Explanation

A Dynamic Allocation error occurred. An error occurred attempting to dynamically allocate a data set.

In the message text:

dsname
> The data set name.

retcode
> The Dynamic Allocation return code.

errorcode
> The Dynamic Allocation error code.

infocode
> The Dynamic Allocation information code.

System action

The print request was not completed.

Operator response

Not applicable.

System programmer response

See Dynamic Allocation diagnostic information in the *z/OS MVS Programming: Authorized Assembler Services Guide*.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP011E   **Data set *dsname* is not found.**

Explanation

The data set does not exist or is not cataloged.

In the message text, *dsname* is the name of the data set.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Mount the volume that contains the data set.

User response

Catalog the data set or specify the correct data set name.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP012E   **Data set *dsname* is not accessible because volume *volser* is not mounted.**

Explanation

The volume on which the data set is located is not currently mounted.

In the message text:

dsname
    The name of the data set.

volser
    Specifies the serial number of the magnetic tape or DASD volume to contain the data set.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Mount the volume that contains the data set.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP014E   **Job *jobid* is not found.**

Explanation

The job *jobid* specified in the request was not found.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Use the `lpstat` command to display job IDs known to the system. Submit the request again with a valid job ID specified.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP015E   **Unknown exception occurred.**

Explanation

Print Interface received an exception of unknown value.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP016I   **Job *jobid* on printer *printer-name* successfully cancelled.**

Explanation

The cancel request for job *jobid* was successfully completed.

System action

The job was canceled.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP017E   **No jobs found for user *userid*.**

Explanation

A query jobs request (for example: `lpstat -u` *userid*) did not find any jobs for *userid*.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP018E   **No jobs found for printer** *printer-name***.**

Explanation

A query jobs request (for example: `lpstat -p` *printer-name*) did not find any jobs for *printer-name*.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP019E   *attributename attributevalue* **exceeds the maximum value** *maximumvalue* **supported by printer** *printer-name***.**

Explanation

attributevalue specified for *attributename* in the print request (for example: `lp -o` *attributename=attributevalue*) exceeds the maximum value (*maximumvalue*) allowed by the destination printer definition (*printer-name*). For example, the copies attribute in the print request exceeds the maximum copies that are defined in the printer definition.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Submit the request again with *attributevalue* less than or equal to *maximumvalue*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP020E	**Printer *printer-name* does not support *attribute-name attribute-value*.**

Explanation

The value of an Infoprint Server job attribute was specified correctly. However, the printer definition for the selected printer does not permit that value. For example, the **1p** command might specify the **duplex=tumble** attribute. However, the printer definition indicates that the printer does not support the **tumble** option.

In the message text:

printer-name
> Name of the printer definition that you requested or that Infoprint Server selected to print the file. This printer definition is defined in the Infoprint Server Printer Inventory.

attribute-name
> Name of the Infoprint Server job attribute whose value is not supported. If you used z/OS JCL to submit the request, you might specify a JCL parameter that corresponds to this job attribute. Or, Infoprint Server might internally specify this job attribute.

attribute-value
> The attribute value that is not supported.

If *attribute-name* is "document-format", this means that the printer definition does not accept files with the specified data format. For example, if *attribute-value* is "modca-p", this means that the printer definition does not accept the MO:DCA-P (AFP) data format. If *attribute-value* is "other", Infoprint Server might not be able to detect the data format of your file. Infoprint Server automatically detects the data format unless you specify the **document-format** job attribute.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If you want the printer definition to accept the *attribute-value,* use the Infoprint Server ISPF panels to change the supported data formats or other supported values in the printer definition. For information about how to control the validation that Infoprint Server does, see *z/OS Infoprint Server Operation and Administration*.

User response

If you specified the *attribute-name* attribute or a corresponding JCL parameter, specify a value for the attribute or JCL parameter that printer definition *printer-name* supports. Contact your administrator to determine, or change, the attribute values that are supported in the printer definition.

If *attribute-name* is "document-format", resubmit your print request to a printer that your administrator says accepts the data format that is indicated in *attribute-value*. Or, your administrator might be able to specify a data transform in the printer definition to transform your data format to one that the printer supports.

If you think that Infoprint Server did not accurately detect the data format of your data, make sure that your data is not corrupted and make sure that the logical record length (LRECL) specified on the DD statement, if one is used, is correct. In some cases, you might be able to correct the problem by specifying the data format in the Infoprint Server **document-format** job attribute. For example, if you use JCL to print the data set, you can specify the **document-format** attribute in the PRTATTRS parameter on the OUTPUT JCL statement.

For information about Infoprint Server job attributes and the PRTATTRS JCL parameter, see *z/OS Infoprint Server User's Guide*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP021E   **Output descriptor failed:** *errorparameter***, return code** *retcode***, reason code** *reasoncode***.**

Explanation

The system OUTADD macro detected an error when Print Interface attempted to add the print job on the JES spool. An error was detected in a parameter in the output descriptor. The message text contains the parameter in error, return code, and reason code from the OUTADD macro.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Correct the attribute in the printer definition that corresponds to the *errorparameter*. If the error persists, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Correct the attribute on the print request that corresponds to the *errorparameter*. Or, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP022W   *objectname***:** *errmsgno errmsgtext*

Explanation

An error occurred with object name *objectname*. *objectname* is the name of the file, filter program, or other object in error. *errmsgno errmsgtext* are the message number and message text that is generated by a system program or by the filter program.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

See the description for message *errmsgno*.

User response

If you specified *objectname*, make sure that the name is valid. Also, see the description for message *errmsgno*. If you did not specify *objectname*, contact your system programmer for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP023E   System job limit exceeded.

Explanation

A print request was not accepted because the number of job IDs is at the system limit.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Reduce the total number of jobs currently in the system.

User response

Enter your print request again. If the error persists, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP024E   LPD received an unsupported request identifier *reqid*.

Explanation

The line printer daemon (**lpd**) received a client request that contained a control file with a control code that is not defined by Request For Comments (RFC) 1179.

In the message text, *reqid* identifies the control code.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Make sure that the line printer requester (**lpr**) on the client system creates control files that contain only control codes that are defined by RFC 1179.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP025E   A write operation failed for the SYSOUT data set.

Explanation

The print request failed because the attempt to write the SYSOUT data set to the JES spool failed.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Investigate why the write attempt failed. For example, the JES spool might be full, or the size limit of a JES SYSOUT data set might be exceeded.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP026E **Job *jobid* on printer *printer-name* could not be cancelled.**

Explanation

A cancel request for job *jobid* failed and the job cannot be deleted from the JES spool. To cancel a print job, the job must complete spooling and cannot already be selected for processing.

In the message text, *printer-name* is the name of the printer definition to which the job was directed.

System action

The request was not completed.

Operator response

To cancel a print job that is transmitted to a LAN printer with IP PrintWay and is already selected for processing, do one of these:

- IP PrintWay basic mode: Use the Infoprint Server ISPF panels to delete the transmission-queue entry for the data set. For information, see *z/OS Infoprint Server Operation and Administration*.
- IP PrintWay extended mode: Use Infoprint Central to delete the data set.

System programmer response

Not applicable.

User response

To cancel a print job that is printed to a LAN printer in your TCP/IP network, ask your IP PrintWay operator to cancel it.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP027E **This program is not APF-authorized. It must be made APF-authorized.**

Explanation

The program that is indicated before the message number is not running APF-authorized. This is most likely because of an error during installation.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Do not use NFS to mount the `bin` directory (for example, `/usr/lpp/Printsrv/bin`) that contains Print Interface executable files because this action bypasses APF-authorization.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP028E	[*optionsource*:] *attributename* is ambiguous for: *attributelist*

Explanation

The attribute *attributename* is an abbreviation for any one of the attributes that are listed in *attributelist*.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Correct the attribute name, specifying enough characters in the attribute name to make the name unique. Then, enter your print request again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP029E	SYSOUT data set allocation failed. JES may be down-level.

Explanation

The print request was not allocated on the JES spool. This might occur because JES is not at the required level.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Make sure that JES is at required level, as documented in *z/OS Infoprint Server Customization*. If JES is at the required level, investigate why the SYSOUT data set allocation failed. For example, the JES spool might be

full, or the system might exceed the maximum number of SYSOUT data sets allowed on the spool.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP030E   **SYSOUT data set allocation failed. Confirm *printdestination*.**

Explanation

An error occurred during allocation of an output data set on the JES spool.

In the message text, *printdestination* is either the destination name or the destination node that is specified in the printer definition for the printer in the Printer Inventory.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Change *printdestination* in the printer definition to a valid value. You can use Infoprint Server ISPF panels to list all printer definitions in the Printer Inventory with the value in error. If *printdestination* is a valid value, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer or administrator that this error occurred. After the error is corrected, enter your print request again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP031E   **Environment variable file *filename* has incorrect attributes.**

Explanation

The **aopdaemon** command specifies a variable file that might modify the daemon's environment. To avoid unauthorized changes to the daemon's environment, any variable file that **aopdaemon** processes must be owned by UID=0 and writable only by the owner.

In the message text, *filename* is the name of the optional variable file that is specified in the **aopdaemon** command.

System action

The requested daemon is not started.

Operator response

Notify your system programmer or administrator that this error occurred.

System programmer response

Either change the ownership and permissions of the variable file so that it is owned by UID=0 and writable only by the owner, or supply another variable file with the correct ownership and permissions.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

The **aopdaemon** command.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP032E   [*optionsource*:] The attribute name *attributename* is not valid.

Explanation

The attribute that is named *attributename* is not valid. The problem might be that a JCL parameter, such as FSSDATA or PRTATTRS, specified a job attribute that is not valid. For example: FSSDATA='myprinter' instead of FSSDATA='printer=myprinter'.

In the message text, *optionsource* generally identifies where the error occurred.

For example, if *optionsource* is:

- The name of an attributes file, the error occurred in the named attributes file
- "FSSDATA", the error occurred in the FSSDATA parameter on the OUTPUT JCL statement
- "job-attributes", the error occurred in a job attribute
- "-o", the error occurred in the **-o** option
- "PRTATTRS", the error occurred in the PRTATTRS parameter on the OUTPUT JCL statement

System action

If the FSSDATA or PRTATTRS JCL parameter contains an incorrect attribute, IP PrintWay rejects the print job and does not process it. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay does not attempt to process the print job again until the operator releases it.

If the **-o** option, an attributes file, or the LPD control file contains an incorrect attribute, Infoprint Server does not write the print job to the JES spool.

Operator response

If the print job is on the JES spool, delete it.

System programmer response

Not applicable.

User response

Submit the request again with a valid attribute assignment.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP033E   [*optionsource*:] Unmatched *stringvalue*.

Explanation

Print Interface expected a matching value for *stringvalue* but did not find one.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Submit the request again with a matching value for *stringvalue*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP034E   **[*optionsource*:] The value *stringvalue* is not valid.**

Explanation

The value *stringvalue* is not valid for *optionsource*.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file. If *optionsource* is `printer-uri`, the Uniform Resource Identifier (URI) specified in the printer definition is not valid. If *optionsource* is STDENV, the specified data is not used.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Correct the error and submit the request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP035E   **[*optionsource*:] Expecting *stringvalue1* but found *stringvalue2*.**

Explanation

Print Interface expected to find *stringvalue1* in this context, but instead found *stringvalue2*. The problem might be that a JCL parameter, such as FSSDATA or PRTATTRS, specified a job attribute that is not valid. For example: FSSDATA='myprinter' instead of FSSDATA='printer=myprinter'.

In the message text, *optionsource* generally identifies where the error occurred.

For example, if *optionsource* is:

- The name of an attributes file, the error occurred in the named attributes file
- "FSSDATA", the error occurred in the FSSDATA parameter on the OUTPUT JCL statement
- "job-attributes", the error occurred in a job attribute
- "-o", the error occurred in the **-o** option
- "PRTATTRS", the error occurred in the PRTATTRS parameter on the OUTPUT JCL statement

System action

If the FSSDATA or PRTATTRS JCL parameter contains an incorrect attribute, IP PrintWay rejects the print job and does not process it. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay does not attempt to process the print job again until the operator releases it.

If the **-o** option, an attributes file, or the LPD control file contains an incorrect attribute, Infoprint Server does not write the print job to the JES spool.

Operator response

If the print job is on the JES spool, delete it.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct value. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP036E   **[*optionsource*:] *stringvalue* is shorter than the minimum length of *minimumlength*.**

Explanation

stringvalue is shorter than the acceptable minimum length of *minimumlength*.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct value for *stringvalue*. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP037E   **[*optionsource*:] *stringvalue* is longer than the maximum length of *maximumlength*.**

Explanation

stringvalue is longer than the acceptable maximum length *maximumlength*.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the

error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct value for *stringvalue*. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP038E [*optionsource*:] *value1* **is less than the minimum value** *minimumvalue***.**

Explanation

value1 is less than the acceptable minimum value *minimumvalue.*

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct value for *value1*. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP039E [*optionsource*:] *value1* **exceeds the maximum value** *maximumvalue***.**

Explanation

value1 exceeds the acceptable maximum value *maximumvalue.*

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct value for *value1*. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP040E   [*optionsource*:] The minimum number of values is *minimumnum*.

Explanation

A request was sent with less than the minimum number of values *minimumnum*.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct number of values. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP041E   [*optionsource*:] The maximum number of values is *maximumnum*.

Explanation

A request was sent with more than the maximum number of values *maximumnum*.

In the message text, *optionsource* identifies where the error occurred. For example, if *optionsource* is "-o", the error occurred in the **-o** option. If *optionsource* is the name of an attributes file, the error occurred in the named attributes file.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

If the error occurred in an Infoprint Server configuration file, correct the error.

User response

Submit the request again with the correct number of values. If *optionsource* is the name of an Infoprint Server configuration file, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP042E   *source file*: **exceeds the maximum value** *maximumvalue* **allowed by printer** *printer-name*.

Explanation

The size of the job that is submitted for printing, including all files in the job and all copies, exceeds the maximum size print job that is allowed for the selected printer. The administrator defines the maximum size that is allowed in the printer definition in the Printer Inventory.

In the message text, *source file* is the name of the document that is too large to print, *maximumvalue* is the number of bytes allowed in the printer definition, and *printer-name* is the name of the selected printer.

System action

The print request was not completed.

Operator response

Not applicable.

System programmer response

To increase the size limit for jobs that are submitted to this printer, use Infoprint Server ISPF panels to edit the printer definition. In the printer definition, specify the maximum number of bytes allowed.

User response

Make the print job smaller or select another printer, and submit your print request again. Or ask your administrator to increase the maximum job size that is allowed for this printer in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP043E   **The nesting level for attributes files has been exceeded.**

Explanation

The attributes file refers to an attributes file that also refers to an attributes file. The number of these nested attributes files exceeds 16 files.

System action

The print request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Change the attributes files to limit the number of nested attributes files to 16, and submit your print request again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

**AOP044I   Shutdown complete.
                   (program:*daemon*)**

Explanation

The daemon that is named at the end of the message
was shut down.

System action

The named daemon was shut down.

Operator response:
Restart the daemon if you want to.

System programmer response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

**AOP045E   *attributename1* required when
                   attributename2 specified.**

Explanation

When you specify attribute *attributename2* on the **lp**
command, you must also specify attribute
attributename1.

System action

The print request was not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Correct the attributes, and submit the print request
again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

**AOP046E   You are not permitted to cancel job
                   jobid.**

Explanation

You are not the same user who submitted the job.

System action

The job was not canceled.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

To cancel a print job that is submitted by another user, contact your system operator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP047E   *exception-information*

Explanation

This message is displayed with message AOP004E and contains diagnostic information that might be helpful in solving the problem.

System action

The request is not completed.

Operator response

Not applicable.

System programmer response

Use the information in this message to find the source of the problem. If you cannot identify the cause of the

problem, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

- If the *exception-information* in the message indicates a problem with permissions (for example, message EDC5139I `Operation not permitted.`), run the **aopsetup** shell script. For example, if you use the default group names for Infoprint Server operators (AOPOPER) and administrators (AOPADMIN), enter:

```
/usr/lpp/Printsrv/bin/aopsetup aopoper
aopadmin
```

For more information about **aopsetup**, see *z/OS Infoprint Server Customization*.

- If the *exception-information* in the message is EDC5164I `SAF/RACF error.`, make sure:

  - The user ID that starts Infoprint Server is a valid z/OS UNIX user ID. The user ID must have an OMVS segment, the default group for the user ID must have an OMVS segment with a group identifier (GID), and the user ID must have a home directory.

  - The password for the user ID that starts Infoprint Server is not expired.

- If the *exception-information* in the message is `Cannot allocate memory` or `bad allocation`, check these possible causes:

  - The region size might be too small. For information about setting the region size for daemons, see *z/OS Infoprint Server Customization*.

  - The Infoprint Server Inventory databases might be corrupted, causing Infoprint Server to request an unreasonable amount of memory. For information about restoring the inventory databases from backups, see *z/OS Infoprint Server Customization*.

  - A larger heap size might be required. To increase the heap size, specify a RUNOPTS environment variable, and then stop and restart Infoprint Server. For example:

```
_CEE_RUNOPTS=HEAP(32M,8M)
```

- If the *exception-information* in the message is `Bind() failed in TCPListener...EDC8115I Address already in use.`, an Infoprint Server daemon tried to use a port that was reserved or already in use. Do one of these:

  - Check the TCP/IP configuration file to determine whether the port is reserved. Port numbers that are specified in the PORT statement are reserved. To make that port available, comment out the appropriate line. For information about locating

the PROFILE.TCP/IP configuration file, see *z/OS Communications Server: IP Configuration Guide*.

– Determine which programs and port are involved in the conflict, and then move one of the programs to another port. To help identify the programs in conflict, use the UNIX **onetstat** command to display which processes are currently using which TCP/IP ports. The most common conflict is between the TCP/IP LPD (LPSERVE) and **aoplpd** because both default to port 515. If this is the problem, do one of these:

   - In the system configuration definition, change the port number that **aoplpd** listens to.

   - Run **aoplpd** only; do not run both LPSERVE and **aoplpd**.

   For more information about how to customize TCP/IP and the Print Interface LPD, see *z/OS Infoprint Server Customization*.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP048E   *hostname*: **Unknown host.**

Explanation

Infoprint Server tried to resolve the printer's host name, but the **gethostbyname()** function cannot resolve it. This situation can occur for one of these reasons:

• The Domain Name Server (DNS) is not accessible from z/OS.

• No DNS entry exists for this host name.

• This host name is spelled incorrectly in the printer definition.

• This host name is spelled incorrectly in the DEST=IP: parameter on the JCL statement or in the **printer-ip-address** job attribute.

IP PrintWay extended mode requires that your DNS is able to map a host name to an IP address if the host name is specified in a printer definition, DEST=IP: JCL parameter, or in the **printer-ip-address** job attribute. If an IP address is specified (in a printer definition, DEST=IP: JCL parameter, or in the **printer-ip-address** job attribute) and the IP address maps to a host name in the DNS, the DNS must also map the host name to an IP address. IP PrintWay extended mode also requires that the DNS is able to do reverse lookup (from IP address to host name) if the host name or IP address is specified in a printer definition, DEST=IP: JCL parameter, or in the **printer-ip-address** job attribute. For more information, see *z/OS Infoprint Server Customization*.

System action

If this message is received for a print job request, IP PrintWay rejects the print job. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay does not attempt to process the print job again until the operator releases it.

If you see this message when IP PrintWay extended mode starts, or when the administrator creates a printer definition, IP PrintWay does not create an internal representation of the printer. Therefore, Infoprint Central cannot display this printer.

Operator response

Do one of these after the problem is corrected:

• If the job submitter corrected the host name and resubmitted the print job, delete the rejected print job.

• If the administrator corrected the host name in the printer definition or in the DNS, release the print job.

System programmer response

If the host name is incorrect in the printer definition, correct it. When you correct the host name, you receive this message again because IP PrintWay tries to resolve the host name one more time. You can ignore the second AOP048E message.

If the host name is correct in the printer definition, verify that the DNS is accessible and functioning and that there is a DNS entry for this host name. If no DNS entry exists, create an entry. After you create a DNS

entry, Infoprint Central can display the printer after someone submits a print job to it or after the administrator modifies any field in the printer definition.

After you correct the problem, ask the operator to release the print job that was rejected.

Tip: To find printer definitions that contain the host name, use the Infoprint Server ISPF panels: enter the host name in the IP Address field on the Select Printer Definitions panel.

User response

If you specified this host name in the print request, make sure that the host name is correct. After you correct the host name, resubmit the print job. If you did not specify the host name in the print request, or if the host name is correct, contact the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP049E	Insufficient **CSA/ECSA storage available.** *number* **bytes required.**

Explanation

There was no subpool 241 storage available to the program.

System action

Infoprint Server does not initialize.

Operator response

Not applicable.

System programmer response

If all programs are using normal amounts of common storage, increase the storage amount that is specified in SYS1.PARMLIB (IEASYS*xx*) and rerun initial program load (IPL) at a convenient time. Infoprint Server common storage area (CSA) requirements depend upon system load but are typically modest. 64 KB of ECSA (extended common storage area) should be more than enough.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP050E	**Cannot connect to inventory** *inventory***, return code** *return-code***, reason code** *reason-code***.**

Explanation

The Printer Inventory *inventory* is not currently active.

System action

The print request is not completed.

Operator response

None.

System programmer response

Start the Printer Inventory.

User response

Wait until the Printer Inventory is active, or contact the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP051I   All daemons started successfully.

Explanation

All daemons started successfully. This message is for information only.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP052E   A filter name must be supplied.

Explanation

You must specify a filter name with the filter command. No filter name was specified.

System action

The print request is not completed.

Operator response

Not applicable.

System programmer response

If you are using the filter command directly, specify a filter name. Use the filter man pages for more information. If the message is coming from an installation-supplied program, make sure that the installation-supplied program is generating a filter name with a filter command.

User response

If you are using the filter command directly, specify a filter name. For more information, see `cfilter.h` and `cfilter.c` in the `/usr/lpp/Printsrv/samples/` directory. If the message is coming from an installation-supplied program, contact the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP053E   *program_name* **exited with status**
              status.

Explanation

The specified program ended with a nonzero status.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

If the error was sent by the transform daemon
(**aopxfd**) and the named program is an IBM-supplied
transformer, contact the IBM Support Center, or use
your electronic link with IBM service for assistance.
Otherwise, treat the problem as originating with
program_name.

User response

The current output request might be incomplete. Verify
the request and resend it. If the problem recurs,
contact the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP054E   *program-name* **was terminated**
              because of signal *signal_number*.

Explanation

The specified program was ended because it received
the specified signal.

System action

The named program stops.

Operator response

Not applicable.

System programmer response

If no user entered the kill command against the
program, and if the error was sent by the transform
daemon (**aopxfd**), and if the program named is an
IBM-supplied transformer, contact the IBM Support
Center, or use your electronic link with IBM service for
assistance. Otherwise, treat the problem as originating
with *program_name*.

User response

The current output request might be incomplete. Verify
the request and resend it. If the problem recurs,
contact the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP055E   **A protocol error occurred:** *message*
              | *data.*

Explanation

If this message was displayed in message AOP003E,
message was received and was not valid.

This error might occur in the HTTP protocol when IP PrintWay attempts to transmit data to a printer by using the Internet Printing Protocol (IPP).

In the message text, *message* is a message and *data* is the HTTP protocol data that has an error.

System action

The request is not completed.

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Not applicable.

System programmer response

If this message is contained in message AOP003E, that message indicates the source of the error. If this message is not contained in message AOP003E or if the source is an IBM-supplied program, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. Otherwise, treat the problem as originating with the named source.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP056E	*filename* was not spooled.

Explanation

The specified file name was not spooled. Messages that follow indicate the reason.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

See other messages that are sent with this one.

User response

See other messages that are sent with this one.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP057E	*attribute_name1* also requires *attribute_name2*.

Explanation

The first specified attribute requires that a value also be supplied for the second specified attribute.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

Make sure the user supplies a value for
attribute_name2.

User response

Supply a value for *attribute_name2*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP058E	*attribute_spec* **cannot be specified with** *attribute_name.*

Explanation

The specified attribute specification is not valid for the
specified attribute.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Either do not set *attribute_spec* for this attribute, or do
not supply a value for *attribute_name*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP059E	**When** *attribute_name1* **is** *value,* **then** *attribute_name2* **is required.**

Explanation

The specified second attribute must be set if the first
attribute has the value indicated.

System action

If Infoprint Server wrote the message when it started
and *attribute_name1* is "hardcopy-messages" and
value is "list", Infoprint Server continues processing
but ignores the **hardcopy-messages=list** attribute and
does not write any additional messages to the
hardcopy log.

If the **pidu** command wrote the message, the **pidu**
command was not accepted.

Operator response

Not applicable.

System programmer response

None.

User response

Either do not specify *value* for *attribute_name1*, or
supply a value for *attribute_name2*.

For information about *attribute_name1* and
attribute_name2, see *z/OS Infoprint Server
Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP060E	When *attribute_name1* is *value*, then *attribute_name2* cannot be specified.

Explanation

A value of *value* for *attribute_name1* precludes specifying *attribute_name2*.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

None.

User response

Either do not specify *value* for *attribute_name1*, or do not supply a value for *attribute_name2*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP061W	*object_class object_name* is not found.

Explanation

This message is sent by the Print Inventory Definition Utility (PIDU). The indicated object was not found in the Printer Inventory.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

If the indicated object is a printer definition, either create the printer definition in the Printer Inventory, or reenter the request with a different printer definition. If the indicated object is part of a printer definition, change the printer definition to include a valid object.

User response

Check that you requested the correct printer for your print job. If not, reenter the request with the correct printer. If so, contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP062I	*object_class object_name* was created.

Explanation

This informational message is sent by the Print Inventory Definition Utility (PIDU). The indicated object was created in the Printer Inventory as requested.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP063I	*object_class object_name* was replaced.

Explanation

This informational message is sent by the Print Inventory Definition Utility (PIDU). The indicated object was replaced in the Printer Inventory as requested.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP064I	*object_class object_name* was deleted.

Explanation

This informational message is sent by the Print Inventory Definition Utility (PIDU). The indicated object was deleted from the Printer Inventory as requested.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP065I　　　*count* **definitions were exported to** *filename***.**

Explanation

The specified number of printer definitions were exported to file name *filename*.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP066E　　　*attribute_name* **is not supported in a predicate.**

Explanation

The type of this attribute precludes its use in predicates.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

Specify a typed attribute name.

User response

Specify a typed attribute name.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP068W   *filename*: **contains duplicate entry "*transform_class*."**

Explanation

The transform class *transform_class* appears multiple times in *filename*.

System action:

Operator response

Not applicable.

System programmer response

Make sure that the transform class specified appears only once.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP069E   **Connection to transform class *transform_class* failed.**

Explanation

Some print data requires transformation from one data format to another, such as from PCL to AFP, from PostScript to AFP or from PDF to AFP. For such data sets, Print Interface sends the print data to a transform process for conversion before writing the data to the JES spool. This error message indicates that communication with the transform process was either never established or failed before the transform completed.

In the message text, *transform_class* is the name of the transform (such as pcl2afp) concatenated with the class specified in the **-c** filter option (such as letter_240). For example, `pcl2afp_letter_240`.

System action

The transform request was not completed.

Operator response

Not applicable.

System programmer response

Make sure that a valid transform class is specified in the **-c** filter option in the printer definition. The transform class must be defined in the transform configuration file, `aopxfd.conf`. If you change the configuration file, stop and restart the Infoprint Server Transform Manager daemon to pick up the changes.

Also, make sure that you installed the requested transform and correctly specified the name of the transform daemon in the transform configuration file. The name of the transform is the first part of the class_name (for example, `afpxpcl`.) If the DLL for the transform daemon (for example, `afpxpcl.dll`) is not installed, you also receive message EDC5129I on the console.

View the `/var/Printsrv/xfd/`*transform_class*`.#.stderr` file for an indication of the cause of the transform failure.

If the problem persists, contact your IBM service representative.

User response

Submit the request with a valid **-c** filter option. If the **-c** option is valid, notify your administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP070E   **A timeout occurred in *resource_id*.**

Explanation

The request failed because it exceeded a time limit that is associated with the resource identified in the message.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Increase the time limit that is associated with the named resource.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP071E   **Expected operand *operand_id* is missing.**

Explanation

A request was submitted without a required operand, which is identified in the message.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Add the required operand to the printer definition.

User response

If you entered the command from the command line, submit the request with the required operand. If you did not enter the command that is missing the operand, notify your administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP072E   **Use of this product is not enabled.**

Explanation

This product is not enabled for use. It must be enabled in SYS1.PARMLIB.

System action

The program ends.

Operator response

Not applicable.

System programmer response

Enable the product in the IFAPRD*xx* member of SYS1.PARMLIB. For information, see *z/OS Planning for Installation*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP073E	*inventory*: function *function_number* failed with return code *retcode* reason code *reasoncode*.

Explanation

The Printer Inventory function *function_number* failed for the Printer Inventory indicated in *inventory*.

System action

The request ends.

Operator response

Not applicable.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP074E	Invalid API function call, *function call*. Job has not been created.

Explanation

This message involves the application programming interface (API) library that is included with Infoprint Server. With the API, customers can develop their own printing applications.

Message AOP074E is sent when a programmer uses an API function in error. For example, calling WritePrintFile() or ClosePrintFile() before calling CreatePrintFile(). A print file must be created before it can be written to or closed.

System action

The API does not run, and no print file is created.

Operator response

Not applicable.

System programmer response

Have the application developer rewrite the code that uses the API to eliminate the error.

User response

If you are the application programmer who is using the API, rewrite the code to eliminate the error. If you are

not the application programmer, notify your system programmer of this error.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP075I	Daemon *daemon* was started successfully.

Explanation

The daemon was started successfully.

In the message text, *daemon* is the name of the daemon.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP076E	The start of daemon *daemon* failed.

Explanation

The daemon cannot be started. In the message text, *daemon* is the name of the daemon.

If another error message indicates a RACF or SAF error, the file permissions might not be set correctly or the user ID that started Infoprint Server might not be a valid z/OS UNIX user ID.

System action

The request ends.

Operator response

Not applicable.

System programmer response

Look for other messages that indicate the reason for the failure on the terminal where Infoprint Server was started or in the console log.

If a message indicates a RACF or SAF error (such as, message EDC5164I):

- Make sure that the user ID that starts Infoprint Server is a valid z/OS UNIX user ID. The user ID must have an OMVS segment, the default group for the user ID must have an OMVS segment with a group identifier (GID), and the user ID must have a home directory.
- Make sure that the password for the user ID that starts Infoprint Server is not expired.
- Run the **aopsetup** shell script to set up the correct z/OS UNIX permissions for Infoprint Server directories and executable files.

For information about how to set up security for Infoprint Server and how to run the **aopsetup** shell script, see *z/OS Infoprint Server Customization*.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP077I   Daemon *daemon* is already started.

Explanation

The daemon is already active and cannot be started again.

In the message text, *daemon* is the name of the daemon.

System action

The request to start the daemon again has no effect on the system.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP078W   Daemon *daemon* is not running.

Explanation

An attempt was made to stop a daemon that is not running. For example, you see this message if you use the command when the **Operating mode** field is set to **z/OS 2.2** on the ISPF System Configuration panel.

In the message text, *daemon* is the name of the damon.

System action:
The request has no effect on the system.

Operator response:
Not applicable.

System programmer response:
None.

User response:
If the **Operating mode** field is set to **z/OS 2.2**, use the **aopsend** command to stop the daemon.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP079I	A shutdown of daemon *daemon* has been initiated.

Explanation

The system began to stop the daemon. The shutdown is not complete until message AOP044I, which indicates daemon shutdown, is displayed.

In the message text, *daemon* is the name of the daemon.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP080E	Unexpected signal *signal_number* received.

Explanation

A daemon received an unexpected signal that it cannot process.

System action

The daemon stops abnormally.

Operator response

Not applicable.

System programmer response

Restart the daemon.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP082E	You are not authorized to run this utility.

Explanation

The user does not have correct authority to run the Printer Inventory Definition Utility (PIDU).

System action

PIDU stops.

Operator response

Not applicable.

System programmer response

To authorize the user to run PIDU, give the user either READ or UPDATE access to the AOP.ADMINISTRATOR profile in the PRINTSRV class. The user must also be a member of the AOPADMIN group. For more information, see *z/OS Infoprint Server Customization*.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP083E   A *object_class* named *object_name* already exists.

Explanation

An attempt was made to create an inventory object that would conflict with an existing object.

System action

The new inventory object is not created.

Operator response

Not applicable.

System programmer response

None.

User response

If you need the new object, give it a class and name that do not conflict with an existing object.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP084E   A *object_class object_name* is already defined with *attribute_spec*.

Explanation

The object of class *object_class* named *object_name* exists in the inventory, and its *attribute_spec* prevents the definition of the current object.

System action

The new object is not created.

Operator response

Not applicable.

System programmer response

None.

User response

Choose values for the attribute that do not conflict with those values of the named *object_class object_name*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP085E	Inclusion of *object_class1* *object_name1* failed for *object_class2 object_name2*.

Explanation

While building the object of type *object_class2* named *object_name2* from the Printer Inventory, the object of type *object_class1* named *object_name1* was not found. The object is treated as not found until *object_class1 object_name1* is defined.

System action

The request that tried to process *object_class2* named *object_name2* fails.

Operator response

Not applicable.

System programmer response

None.

User response

If you want to create a new object that contains *object_class1 object_name1* in its definition, you must first create *object_class1 object_name1*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP086I	GTF tracing started.

Explanation

Printer Inventory interface GTF tracing was started.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP087I   GTF tracing stopped.

Explanation

Printer Inventory interface GTF tracing stopped.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP088I   *object_class object_name* was renamed to *new_name*.

Explanation

As requested, object *object_class object_name* was renamed as indicated.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP089E   *address*: The connection was lost.

Explanation

An active connection to the specified address was unexpectedly ended because of a network failure, a software error, or user action.

System action

Activity on the connection is ended.

Operator response

Not applicable.

System programmer response

Use network problem determination procedures to determine whether the failure is network-related or is caused by the machine at *address*. If the problem is not network-related and the software that is causing the message is IBM-supplied, or if the problem appears to be caused by the Infoprint Server component that is sending the message, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. Otherwise, contact the vendor of the software that is causing the message.

User response

Resubmit the request that caused the error. If errors persist, notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP090E   *attributename*: A value is required.

Explanation

A value is required for *attributename* to complete the request.

System action

The request is ended.

Operator response

Not applicable.

System programmer response

None.

User response

Supply a value for *attributename* and resend the request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP091I   Connected to *name*.

Explanation

The utility connected to the inventory or host *name*.

System action

None.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP092E   *userid* is not authorized to *access resource*

Explanation

The user (*userid*) does not have the required type of access to the resource.

In the message text:

userid
The z/OS user ID of the job submitter or ∗NONE∗. ∗NONE∗ means that either no z/OS user ID was associated with the print job or that the z/OS user ID cannot be authenticated.

access
The type of access to the resource: READ, WRITE, CONTROL, or ALTER.

resource
The name of the resource.

System action

The request is not completed.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

If *userid* is your user ID, ask the resource owner to grant you access to the resource.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP093E   The token *token* is invalid.

Explanation

The token that is passed to the API is incorrect.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

The token is dumped in hex. Look for a token that is being used before it is initialized (for example, with CreatePrintFile()) or after it is invalidated (for example, with AbortPrintFile()).

User response

Notify your application or system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP094E   *functionname:nnnnnnnnnn* bytes of buffer storage were required, *nnnnnnnnnn* were provided.

Explanation

The buffer that the caller provides to an API function is not large enough to satisfy the request.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

Use the BufferSizeRequired() function to determine the size of the buffer that is required and change the program that uses the API to supply a buffer at least that size. Consider modifying the program so that it checks for ErrorNumber() == AOP_BUFFER_OVERFLOW and dynamically allocates the buffer size required.

User response

Notify your application or system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP095E	API Initialization failed.

Explanation

The API cannot be initialized and there was not enough storage to describe the reason better.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

Increase the amount of storage available for the application.

User response

Increase the amount of storage available for the application or notify your application or system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP096E	The update of *component_type component_name* was not performed because it would cause the following error for *object_type object_name*: *message*

Explanation

You attempted to modify a component in the Infoprint Server Printer Inventory. This component is included in another object in the Printer Inventory. Infoprint Server cannot update the component because an error would result in the object that includes this component.

In the message text:

component_type
   Type of component that you attempted to modify.

component_name
   Name of the component that you attempted to modify.

object_type
   Type of object in the Printer Inventory that would have an error if the component were modified.

object_name
   Name of the object that would have an error if the component were modified.

message
    Message that describes the error that would result if the component were modified.

System action

The component was not modified in the Printer Inventory.

Operator response

Not applicable.

System programmer response

Correct the problem indicated in message *message*, and then modify the component. To correct the problem, you might need to modify the object that includes the component.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP097E   **The *component_type* object *component_name* is in use and may not be deleted.**

Explanation

You attempted to delete a component from the Infoprint Server Printer Inventory. This component is included in one or more objects in the Printer Inventory. Infoprint Server can delete a component only if no other objects include it.

In the message text:

component_type
    Type of component you attempted to delete.
component_name
    Name of the component you attempted to delete.

System action

The component was not deleted from the Printer Inventory.

Operator response

Not applicable.

System programmer response

Remove the component from the objects that include it, and then delete the component. To find the objects that include the component, use the Infoprint Server ISPF panels to list all components of the same component type and use the **P** action to show the other objects that include the component. As an alternative, you can use the **pidu** command to display objects that include the component. For more information about how to use the Infoprint Server ISPF panels and the **pidu** command, see *z/OS Infoprint Server Operation and Administration*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP098E   **The *object_type* object *object_name* requires *component_type component_name* and was not created or updated.**

Explanation

You attempted to create or modify an object in the Infoprint Server Printer Inventory. However, this object includes a component that does not exist in the Printer Inventory. You must create the component before you can include it in another object.

In the message text:

object_type
Type of object you attempted to create or modify.

object_name
Name of the object you attempted to create or modify.

component_type
Type of component that does not exist in the Printer Inventory.

component_name
Name of the component that does not exist in the Printer Inventory.

System action

The object was not created or modified in the Printer Inventory.

Operator response

Not applicable.

System programmer response

Verify the spelling of the component name. Because component names are case-sensitive, use the correct uppercase and lowercase letters. If the component name is spelled correctly, create the component that the object includes, and then create or modify the object that includes the component.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP099E   **The URI scheme *scheme* is not supported.**

Explanation

The Uniform Resource Identifier (URI) for the printer, which is specified in the printer definition for the target printer, is not valid. Start the URI with a valid scheme, for example `http:` or `ipp:`.

In the message text, *scheme* is the first part of the URI value as specified in the printer definition.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Not applicable.

System programmer response

Use the Infoprint Server ISPF panels to correct the value that is specified in the **URL** field of the printer definition for the target printer. The **URL** field is displayed on the IPP Protocol panel.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP100E   **The target *printer-uri* responded with *scheme* status *code*.**

Explanation

IP PrintWay used the Internet Printing Protocol (IPP) to send a data set to the target printer, and the printer reported an error.

In the message text, *printer-uri* is the Uniform Resource Identifier (URI) of the target printer as specified in the printer definition. *scheme* is either HTTP or IPP. *code* is either the message or code that is returned by the target printer.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Not applicable.

System programmer response

Look up the status codes in either RFC 2068 for HTTP or RFC 2566 for IPP.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP101E   **Internet Printing Protocol (IPP) server failed to establish server socket at port *portnumber* [*message*].**

Explanation

The Infoprint Server IPP server daemon (**aopippd**) encountered an error when it attempted to establish a server socket connection at the requested port.

In the message text, *portnumber* is the port number at which the IPP server attempted to establish a connection. This port number is specified in the **ipp-port-number** attribute. The default port is 631. *message* is a message that contains more error information.

System action

The IPP server cannot accept any print requests from remote IPP clients.

Operator response

Not applicable.

System programmer response

Verify that the port number in the message is correct and available to the IPP server. Look up *message* for more information about the error. If *message* indicates that the port number (that is, the address) is already in use, either stop the other process that is using the port number or specify another port for the IPP server in the **ipp-port-number** attribute in the system configuration definition. For information about the **ipp-port-number** attribute, see *z/OS Infoprint Server Customization*.

If you see message EDC5111I Permission denied, make sure that the port is not reserved for any other process in the TCP/IP profile data set. For example, if you see this line in the PORT or PORTRANGE statement, delete it or comment it out (the semicolon in the first column indicates that the line is a comment):

```
; 631 TCP process-name
```

After you correct the problem, stop and restart the IPP server so that the IPP server attempts to establish a server socket connection again. For information about how to start and stop the server, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP102E	The Infoprint Server LPD (AOPLPD) failed to read an LPD command.

Explanation

The Infoprint Server LPD (daemon **aoplpd**) failed when it attempted to read an LPD command.

System action

The Infoprint Server LPD did not allocate an output data set on the JES spool. Processing continues.

Operator response

Not applicable.

System programmer response

If this message occurs often, it might indicate a network problem between the submitting client and the Infoprint Server host system. Investigate and correct the source of the problem.

User response

Resubmit the print request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP103E	DEST, CLASS, and FORMS printer selection is not permitted in the printer named DLFTNTRY

Explanation

You must not select the **Use DEST, CLASS, and FORMS for IP PrintWay printer selection** option in the printer definition named DFLTNTRY. IP PrintWay uses the printer definition that is named DFLTNTRY to obtain default values for certain attributes when it prints a data set submitted with the DEST=IP: parameter and no FSSDATA=printer parameter on an OUTPUT JCL statement.

System action

Infoprint Server did not create the printer definition in its Printer Inventory.

Operator response

Not applicable.

System programmer response

None.

User response

If you used ISPF panels to create the printer definition, either clear the **Use DEST, CLASS, and FORMS for IP PrintWay printer selection** field in the printer definition or change the name of the printer definition, and save the printer definition again. If you used the **pidu** command to create the printer definition, either remove the **dcf-routing** attribute or change the name of the printer definition, and enter the command again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP104E   **Resubmit for filtering is not permitted in the printer named DLFTNTRY**

Explanation

You must not select the IP PrintWay basic mode **Resubmit for filtering** option in the printer definition named DFLTNTRY. IP PrintWay uses the printer definition that is named DFLTNTRY to obtain default values for certain attributes when it prints a data set submitted with the DEST=IP: parameter and no FSSDATA=printer parameter on an OUTPUT JCL statement. If you run IP PrintWay basic mode, you must set the **Resubmit for filtering** option in the printer definition for the printer, not in the default printer definition.

System action

Infoprint Server did not create the printer definition in its Printer Inventory.

Operator response

Not applicable.

System programmer response

None.

User response

If you used ISPF panels to create the printer definition, either clear the **Resubmit for filtering** field in the printer definition or change the name of the printer definition, and save the printer definition again. If you used the **pidu** command to create the printer definition, either remove the **resubmit-for-filtering** attribute or change the name of the printer definition, and enter the command again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP105E   *printer-uri* **The response-timeout was exceeded; the printer may require intervention.**

Explanation

The data set cannot be completely transmitted to the printer because the time specified in the **Response timeout** field of the printer definition in the Printer Inventory expired.

In the message text, *printer-uri* is the Uniform Resource Identifier (URI) for the printer.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Correct the problem at the printer.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP106E	Transform *transform_class* connection refused. [*errmsgno*] *errmsgtxt*

Explanation

The Infoprint Server Transform Manager attempted to connect to a transform daemon. The connection attempt failed, probably because of a failure that occurred during initialization of the transform daemon.

In the message text:

transform_class
>   The name of the transform that is concatenated with the transform class that was requested in the **-c** option.

errmsgno errmsgtext
>   The message number, if available, and the message text that is generated by a system program.

System action

The transform was not done.

Operator response

Not applicable.

System programmer response

View the `/var/Printsrv/xfd/`*transform_class*`.#.stderr` file for the cause of the failure to initialize the transform daemon. A probable error is that an AFP resource library is not specified correctly in the transform configuration file, `aopxfd.conf`. If you change the transform configuration file, stop and restart the Infoprint Server Transform Manager daemon to pick up the changes.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP107E	Subsystem *function* request failed - insufficient resources.

Explanation

The Print Interface subsystem did not have sufficient resources to process a data set that was submitted to Infoprint Server with the SUBSYS JCL parameter on a DD statement. One possible reason for this error is that the job step contained a large number of DD JCL statements.

In the message text:

function
>   The name of the function that the subsystem was doing when the error occurred. Possible values are: allocate, open, close, put, and unallocate.

System action

The Print Interface subsystem does not allocate output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

None.

User response

Reduce the number of resources that are required by the job step, and rerun the job. For example, decrease the number of DD JCL statements.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP108E **Subsystem *function* request failed - system error, reason = *reason code***

Explanation

A z/OS system error occurred while Infoprint Server was processing a data set that was submitted to Infoprint Server with the SUBSYS JCL parameter on the DD statement.

In the message text:

function
> The name of the function that Infoprint Server was doing when the error occurred. Possible values are: allocate, open, close, put, and unallocate.

reason code
> A code that indicates the reason for the error, in the format: 00*xxyyzz*.

System action

If the *function* is allocate, open, close, or put, the Print Interface subsystem does not allocate output data sets on the JES spool for any data sets in the job step. If the *function* is unallocate, the Print Interface subsystem might allocate an output data set on the JES spool for this data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

If the *function* is allocate, open, close, or unallocate, save the associated dump in case you need to contact your IBM service representative. Follow the system programmer response for the reason code in

User response

Resubmit the job after the error is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP109E **Subsystem disconnect request received - step cancelled.**

Explanation

Either the operator stopped the Print Interface subsystem or the Print Interface subsystem ended abnormally.

System action

The Print Interface subsystem does not allocate any output data sets on the JES spool for this job step.

Operator response

If you did not stop the Print Interface subsystem, notify your system programmer that this error occurred. Restart Infoprint Server daemons after the problem is corrected.

System programmer response

If the operator did not stop the Print Interface subsystem, the system log contains another message that indicates the error that caused the subsystem to end abnormally. Follow the system programmer response for that message.

User response

Notify the operator that this error occurred. Resubmit the job after the operator restarts the Print Interface subsystem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP110E	Cannot connect to subsystem *subsystem*.

Explanation

The Print Interface subsystem is not active.

In the message text:

subsystem
    Name of the Print Interface subsystem, which is specified in the **inventory** attribute in the Infoprint Server configuration file (aopd.conf).

System action

The print request is not completed.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Edit the **start-daemons** attribute in the Infoprint Server configuration file (aopd.conf) to specify the **subd** value. Then, start Infoprint Server so that the Print Interface subsystem starts. You do not need to stop Infoprint Server first. For information about how to start the server, see *z/OS Infoprint Server Operation and Administration*.

User response

Notify your system programmer that this error occurred. Resubmit the job after the Print Interface subsystem starts.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP111E	The inventory name *subsystem* is not valid as a subsystem name.

Explanation

The Print Interface subsystem is not active.

In the message text:

subsystem
    Name of the Print Interface subsystem that is specified in the **inventory** attribute.

System action

The Print Interface subsystem is not started.

Operator response

Notify your system programmer that this error occurred. After the problem is corrected, stop and restart all Infoprint Server daemons, IP PrintWay, and NetSpool. You might also need to stop and restart PSF.

For information about how to stop and start Infoprint Server daemons, IP PrintWay, and NetSpool, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

Change the value in the **inventory** attribute in the Infoprint Server configuration file (aopd.conf) to specify a valid subsystem name. Make sure that the

first character of the name is an uppercase letter. Because the subsystem name is also the name of the Printer Inventory, you also need to change the name of the inventory on the IP PrintWay and NetSpool startup procedures. If PSF uses the Printer Inventory, you also need to change the name on the PSF startup procedures. Do these steps:

1. Change the name in the configuration file and startup procedures.
2. Stop all Infoprint Server daemons, IP PrintWay, NetSpool, and (optional) PSF.
3. Restart the Infoprint Server daemons.
4. Restart IP PrintWay, NetSpool, and PSF.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP112W   **You are not authorized to write to the printer inventory.**

Explanation

You requested to write to the Infoprint Server Printer Inventory. However, you are not authorized to write to the Printer Inventory.

System action

The function is not done.

Operator response

Not applicable.

System programmer response

If you want this user to do the function, authorize the user to write to the Printer Inventory. For information about how to authorize users, see *z/OS Infoprint Server Customization*.

User response

Ask your administrator to give you RACF authorization to write to the Printer Inventory, or ask an Infoprint Server administrator to do the function.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP113E   **NetSpool is not active.**

Explanation

You selected an action on a NetSpool logical unit. This action requires that the NetSpool component of Infoprint Server is started. However, NetSpool is not started.

System action

The function is not done.

Operator response

Not applicable.

System programmer response

Start a NetSpool task. For information about how to start NetSpool, see *z/OS Infoprint Server Operation and Administration*.

User response

Ask your administrator to start a NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP114E	Search DB connection failed.

Explanation

The Infoprint Server search database threads running in **aopd** failed because of a serious problem. Infoprint Server cannot record information about printers and print jobs that Infoprint Central requires.

System action

Processing continues. However, Infoprint Central reports a logic error when the operator tries to find print jobs or printers.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Follow the procedure in *z/OS Infoprint Server Customization* to recover the search database.

User response

Contact the Infoprint Server operator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP115E	Historical Inventory connection failed.

Explanation

The Infoprint Server Historical Inventory threads running in **aopd** failed because of a serious problem. Infoprint Server cannot record information about historical print jobs, that is, print jobs that cannot be spooled or that completed and are no longer on the JES spool.

System action

Processing continues. However, Infoprint Central reports a logic error when the operator tries to find Infoprint Server print jobs.

Operator response

Stop and restart Infoprint Server daemons. See *z/OS Infoprint Server Operation and Administration*.

System programmer response

None.

User response

Contact the Infoprint Server operator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP116E   **The Printer Inventory does not contain printer pool definition *printer-pool-name*.**

Explanation

The printer pool definition that is associated with the LU name for the NetSpool print request is not defined in the Infoprint Server Printer Inventory.

In the message text, *printer-pool-name* is the name of the requested printer pool definition.

System action

Infoprint Server stops processing the print request.

Operator response

Notify your system programmer.

System programmer response

This error indicates a possible logic error. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

No response is necessary.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP117W   **Job *jobid* document *document-name* did not successfully complete spooling.**

Explanation

Infoprint Server did not finish writing all the data to the JES spool for this document because an unexpected error occurred. The data set on the JES spool, if any, is probably incomplete.

This situation can occur when:

- The document contains no data.
- The job submitter cancels a print request while Infoprint Server is writing the data to the JES spool.

In the message text:

jobid
    The ID of the print job.

document-name
    The name of the document in the print job that had the error.

System action

Processing continues, but the document is not printed. However, other documents in the same job might print.

Operator response

None.

System programmer response

None

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP118I	Job *jobid* document *document-name* started spooling to *printer-definition*.

Explanation

Infoprint Server is writing the document to the JES spool.

In the message text:

jobid
  The ID of the print job.

document-name
  The name of the document to be printed.

printer-definition
  The name of the printer definition for the printer.

System action

None.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP119I	Job *jobid* document *document-name* completed spooling with status *status*.

Explanation

Infoprint Server finished writing the document to the JES spool.

In the message text:

jobid
  The ID of the print job.

document-name
  The name of the document to be printed.

status
  The status of the print job. Possible values for status are:

  not-spooled
    An error prevented the document from being written to the JES spool.

  held
    The document was successfully written to the JES spool but is in the held state. Either the job submitter or the printer definition requested the hold.

  pending
    The document was successfully written to the JES spool and is ready to print.

System action

None.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP120I **Job *jobid* document *document-name* started spooling to *printer-definition* with transform *transform*.**

Explanation

Infoprint Server is writing the document to the JES spool. As the document is written to the spool, it is being transformed to another data stream format.

In the message text:

jobid
    The ID of the print job.

document-name
    The name of the document to be printed.

printer-definition
    The specified printer.

transform
    The path to the transform DLL (Dynamic Link Library). Examples are:

```
aopfiltr.so
/usr/lpp/Printsrv/lib/afpxpcl.dll
```

System action

None.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP121I **Historical Inventory has reached the size limit of *size-limit* MB with *objects* objects currently stored.**

Explanation

The Historical Inventory, which contains information about print jobs that are completed and are no longer on the JES spool, reached its maximum size. As a result, Infoprint Central cannot display information in the Infoprint Server Print Job History table for older print jobs.

Consider increasing the maximum size of the Historical Inventory so that it can hold historical information for the number of days that are specified in the **log-retention** attribute.

In the message text:

size-limit
    Maximum size, in megabytes, of the Historical Inventory specified in the **max-historical-inventory-size** attribute.

objects
    The number of objects that are currently stored in the Historical Inventory. Each object contains information about one or more documents (data sets) in a print job.

System action

Infoprint Server deletes information for the oldest print job from the Historical Inventory.

Operator response

None.

System programmer response

Consider increasing the maximum size of the Historical Inventory in the **max-historical-inventory-size** attribute. For information about this attribute, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP123I   **NetSpool might not be active.**

Explanation

You selected an action on a NetSpool logical unit. This action requires that the NetSpool component of Infoprint Server is started. However, Infoprint Central cannot determine whether NetSpool is started. This situation can occur when more than one NetSpool task is running on the same z/OS system.

System action

The function is not done.

Operator response

Not applicable.

System programmer response

If you want operators to use Infoprint Central to work with NetSpool logical units, run only one NetSpool task.

User response

If your installation runs more than one NetSpool task on the same system, use NetSpool operator commands instead of Infoprint Central to do actions on NetSpool logical units. For information about NetSpool commands, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP124E   **ICONV open failed for codesets: *to-code-page from-code-page* with an errno string of: *errno***

Explanation

Infoprint Server used the iconv utility to convert data between the code pages that are specified in the message text. The iconv utility detected an error. Typically an error occurs when either (1) the document code page or the printer code page that is specified in the printer definition or configuration file is incorrect or (2) a conversion table for the code pages does not exist.

In the message text:

to-code-page
    The name of the target code page.

from-code-page
    The name of the source code page.

errno
>   The error description.

System action

The print request is not completed.

Operator response

Notify your administrator that this error occurred. After the problem is fixed, you can use Infoprint Central to release the print job if it is retained on the JES spool. Otherwise, ask the job submitter to resubmit the job.

System programmer response

Make sure that the code page names are valid for your level of z/OS. For IBM-supplied code pages, see information about code set converters in *z/OS XL C/C++ Programming Guide*. If one of the code pages is a custom code page, make sure that a conversion table exists to convert between the code pages.

If the code page names are not correct, change them in the **Document code page** and **Printer code page** fields in the printer definition in the Printer Inventory. Or, change the **ascii-codepage** and **ebcdic-codepage** attributes in the system configuration definition. For information about how to create conversion tables, see information about code set conversion utilities in *z/OS XL C/C++ Programming Guide*.

User response

Resubmit the print job after the administrator corrects the problem.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP125E   The *attribute1* is too high. It must be lower than *attribute2*.

Explanation:
You issued a Printer Inventory Definition Utility (PIDU) command with conflicting attribute values. For example, this command:
```
> create job-selection-rule badrule
output-class-list = {A B} lower-record-
limit = 1000 upper-record-limit = 99;
```
would result in this message:
```
AOP125E The lower-record-limit is too
high. It must be lower than the upper-
record-limit.
```

System action:
The request fails.

User response:
Correct the values and reissue the command.

Problem determination

Not applicable.

Module

Not applicable.

Source

PIDU.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP126E   An inventory request exceeded the maximum size.

Explanation

An Infoprint Server internal processing limit was exceeded. This is probably because of an unusually large number of objects that are specified in a print request. For example, if one print job contains many documents, the Printer Inventory limit for a print job might be exceeded.

System action

The request fails.

Operator response

Not applicable.

System programmer response

This message can indicate a logic problem in Infoprint Server.

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Retry the request with fewer objects in the request. If you submitted an **lp** command with many documents, reduce the number of documents in the **lp** command. If a batch job contains many output data sets, print the output data sets in separate jobs if possible.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP127I	The number of objects found exceeds the limit that z/OS Infoprint Central can display. If necessary, narrow your search or ask your administrator to increase the limit.

Explanation

You specified search criteria to find objects such as print jobs or printers. However, the number of objects that meet the search criteria exceeds the limit of objects that Infoprint Central is allowed to display. The administrator can specify the maximum limit in the AOPLIMIT, AOPLIMIT_DOCS, and AOPLIMIT_JOBS environment variables.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Infoprint Central displays the maximum number of objects.

Operator response

Not applicable.

System programmer response

If this situation occurs repeatedly, increase the value in the AOPLIMIT, AOPLIMIT_DOCS, or AOPLIMIT_JOBS environment variable. If you increase the limit, you might also need to increase the timeout value in the OutputTimeout directive to prevent the HTTP server from timing out before Infoprint Central can display any objects. For information about how to set environment variables in the IBM HTTP Server - Powered by Apache environment variables file (`bin/envvars`) and the OutputTimeout directive in the HTTP server configuration file (`conf/httpd.conf`), see *z/OS Infoprint Server Customization*.

User response

If Infoprint Central does not return the object that you are looking for, narrow your search by specifying additional search values or more specific search values. If you need to see more objects than the maximum limit allows, ask your administrator to increase the limit.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP128I   **The current size of the Historical Inventory is larger than the maximum size you requested. The size of the Historical Inventory cannot be reduced.**

Explanation

You specified a maximum size for the Historical Inventory in the **max-historical-inventory-size** attribute. However, the Historical Inventory is already larger than the maximum size you specified. Infoprint Server cannot reduce the size of the Historical Inventory, but the Historical Inventory does not grow any larger than its current size. Message AOP121I indicates the current size of the Historical Inventory.

System action

The current size of the Historical Inventory is maintained.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP129I   **The document was not found on the JES spool. It completed processing or was deleted.**

Explanation

This document is no longer on the JES spool because it finished processing or was deleted. Infoprint Server cannot determine whether the document printed successfully. This situation can occur when a document is completed or is deleted while Infoprint Server is not running.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP130I   **The document was deleted.**

Explanation

This document was deleted from the JES spool.

If IP PrintWay extended mode is running on another system in a sysplex, IP PrintWay might delete the print job after it was processed on the other system.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP131I	The document was held.

Explanation

This document was held on the JES spool. For example, the operator or job owner might use Infoprint Central, SDSF, or a JES command to hold the document.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP132I	The document completed successfully.

Explanation

This document finished processing and was sent successfully to the printer. If the document was sent to an IBM AFP printer that Print Services Facility (PSF) controls, the document finished printing successfully. If the document was sent to a remote printer that IP PrintWay controls, the document might not be finished printing yet. Although the document was sent successfully to the printer, some errors might occur during formatting of the data.

System action

The document remains on the JES spool until all documents in the print job finish processing. IP PrintWay retains the document on the JES spool if a retention time is specified in the printer definition.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP133I   **The document completed with errors.**

Explanation

The document finished processing. However, errors prevented the document from printing successfully. The error might have occurred while the document was being sent to the printer. In this case, part of the document might have printed.

System action

The document remains on the JES spool until all documents in the print job finish processing. If IP PrintWay processed the document, it retains the document on the JES spool if a retention time is specified in the printer definition.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP135I   **An abrupt shutdown of daemon *daemon* has been initiated.**

Explanation

Infoprint Server started an "abrupt" shutdown of the specified daemon. When the shutdown is complete, you see message AOP044I.

In the message text, *daemon* is the name of the daemon.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP136I	A destructive shutdown of daemon *daemon* has been initiated.

Explanation

Infoprint Server started a potentially "destructive" shutdown of the specified daemon. The daemon stops immediately.

A "destructive" shutdown can cause inconsistent or corrupted Infoprint Server inventory files.

In the message text, *daemon* is the name of the daemon.

System action

Infoprint Server stops the specified daemon immediately.

Operator response

Notify your system programmer. Then, restart Infoprint Server daemons.

System programmer response

Before the operator starts the Infoprint Server daemons again, set the AOPVALIDATEDB=1 environment variable to request that Infoprint Server check databases for validity. For information about how to set environment variables, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP137E	Infoprint Server daemon *daemon* is not running.

Explanation

A required daemon is not running. In the message text, *daemon* is the name of the daemon.

System action

The functions that the specified daemon supports are not available. For example, if the daemon is **aopssid**, Infoprint Central cannot process any requests that require access to JES or the Printer Inventory.

Operator response

Start the specified Infoprint Server daemon.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP138E   **Database *filename* is corrupted. Take immediate recovery action. Diagnostic data: *data***

Explanation

While starting Infoprint Server daemons, Infoprint Server detected that one of its databases contains corrupted data. Before continuing to use Infoprint Server, you must recover this database.

In the message text:

filename
    Name of the database that contains corrupted data.
data
    Data that can help IBM solve the problem.

System action

Processing continues, but continued operation of Infoprint Server is likely to produce processing failures and other unexpected results.

Operator response

Notify your system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Save the file that contains corrupted data and the diagnostic information in this message. Follow the recovery procedures that are provided by your IBM service representative.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP139E   **Console name *console* is already in use. Change the console name and restart the aopssid daemon.**

Explanation

The name of the extended MCS console that Infoprint Central uses to send commands to JES is already in use by another program. The console name must be unique. In a sysplex environment, the console name must be unique on all systems in the sysplex.

In the message text, *console* is the name of the extended MCS console. This console name was specified in the **console-name** attribute, or Infoprint Server used a default console name.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

The Infoprint Server **aopssid** daemon did not start. Therefore, you cannot use Infoprint Central.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Specify a unique name in the **console-name** attribute in the system configuration definition. Then, start Infoprint Server again so that the **aopssid** daemon attempts to start again. You do not need to first stop any Infoprint Server daemons.

For information about the **console-name** attribute, how to edit the system configuration definition, and how to edit the aopd.conf file, see *z/OS Infoprint Server Customization*.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP140E   **When *attribute_name1* is *value1*, then *attribute_name2* must be *value2*.**

Explanation

The values in two ISPF fields or two attributes are not compatible. This error can occur when you create or update an object in the Printer Inventory by using either the Infoprint Server ISPF panels or the Printer Inventory Definition Utility (**pidu** command).

In the message text:

- *attribute_name1* is the name of the first attribute. The ISPF field has a similar name.
- *value1* is the value of the first attribute. If you did not specify the first attribute, this is the existing value or the default value of the attribute.
- *attribute_name2* is the name of the second attribute. The ISPF field has a similar name.
- *value2* is the value of the second attribute. If you did not specify the second attribute, this is the existing value or the default value of the attribute.

System action

This object is not created or updated in the Printer Inventory.

Operator response

None.

System programmer response

None.

User response

If you use the ISPF panels, change the value in one of the fields and save the definition. If you used the **pidu** command, change the value of one of the attributes and resubmit the **pidu** command to create or update this object.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP141I   **Traceroute did not complete. Try again using a greater number of seconds, or contact your network administrator.**

Explanation

You requested that Infoprint Central run the **traceroute** command to trace the connection from z/OS to a TCP/IP-connected printer, but the trace was not completed. You might not have specified enough time for the **traceroute** command to finish.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

Select a greater number of seconds for the **traceroute** command and resubmit it so that it has more time to run and you get the information that you need. If it still is not completed, contact your network administrator. There might be a problem with the network.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP142E   **Configuration file *filename* does not exist.**

Explanation

The required Infoprint Server configuration file was not found. In the message text, *filename* is the name of the configuration file.

System action

The data was not transformed.

Operator response

None.

System programmer response

Make sure that the configuration file exists. If the file exists, make sure the environment variable that indicates the file location is specified correctly. If you are using InfoPrint Transform Manager for Linux, see

Creating the remote transform configuration file (aoprxf.conf) in *z/OS Infoprint Server Customization*.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP143E   ***filename*: Attribute *attribute* is missing.**

Explanation

A configuration file does not contain the required attributes.

In the message text:

filename
    Name of the file that is missing the attribute
attribute
    Name of the missing attribute

System action

The data was not transformed.

Operator response

None.

System programmer response

Make sure that the configuration file contains the required attributes. For example, the IP address or the port number might be missing. If you are using InfoPrint Transform Manager for Linux, see Creating

the remote transform configuration file (aoprxf.conf) in *z/OS Infoprint Server Customization*.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP144E	You can specify only one input file to be transformed.

Explanation

You specified more than one file to be transformed, but only one is allowed.

System action

The data was not transformed.

Operator response

None.

System programmer response

None.

User response

Resubmit the request with only one input file.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP145E	The file system that contains directory *directory_path* is full. A total of *xxx* MB of free space is needed.

Explanation

To upgrade to the new release, Infoprint Server temporarily requires more free space in the file system to convert the data from the previous release format to the new release format. The message indicates the number of megabytes of free space that Infoprint Server needs to convert the data. In the message text, *directory_path* is the name of the directory in the file system that needs the additional free space. The data was not converted.

System action

Processing stops. Infoprint Server ends.

Operator response

Notify the system programmer.

System programmer response

Make the specified amount of free space available in the file system, and then restart Infoprint Server.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP146I Infoprint Server is not enabled. Therefore, only some functions will be allowed.

Explanation

The Infoprint Server optional feature is not enabled. Some of the daemons that you requested to start in the **start-daemons** attribute of the Infoprint Server configuration file (`aopd.conf`) can be started only if Infoprint Server is enabled.

When the Infoprint Server feature is not enabled, you can use only the Infoprint Server Printer Inventory for PSF function. For information about the Printer Inventory for PSF function, see *z/OS Infoprint Server Printer Inventory for PSF*.

System action

Infoprint Server starts only those Infoprint Server daemons that are part of the Infoprint Server Printer Inventory for PSF function.

Operator response

Notify your system programmer.

System programmer response

Do one of these:

- If your installation purchased an Infoprint Server license, enable Infoprint Server. Then, stop and restart Infoprint Server.
- If your installation did not purchase an Infoprint Server license, no action is required. However, to avoid this message in the future, delete the **start-daemons** attribute in the Infoprint Server configuration file (`aopd.conf`). The default location of this file is `/etc/Printsrv/aopd.conf`.

User response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP147E This function is not allowed because Infoprint Server is not enabled.

Explanation

The Infoprint Server optional feature is not enabled. Infoprint Server supports the function that you requested only when Infoprint Server is enabled

When the Infoprint Server feature is not enabled, you can use only the Infoprint Server Printer Inventory for PSF function. For information about the Printer Inventory for PSF function, see *z/OS Infoprint Server Printer Inventory for PSF*.

System action

The function is not performed.

Operator response

Notify your system programmer.

System programmer response

Do one of these:

- If your installation purchased an Infoprint Server license, enable Infoprint Server. Then, stop and restart Infoprint Server.
- If your installation did not purchase an Infoprint Server license, no action is required. However, to avoid this message in the future, do one of these:
  - If the **Operating mode** field on the ISPF System Configuration panel is set to **z/OS 2.1** (the default), delete the **start-daemons** attribute in

the Infoprint Server configuration file (`aopd.conf`). The default location of this file is `/etc/Printsrv/aopd.conf`.

– If the **Operating mode** field is set to **z/OS 2.2**, edit the AOPSTAR2 JCL procedure and comment out all the daemons except the **aopd** demon (type **AOP**).

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP154I	The document is no longer in this print job. The document is in output group *output-group*.

Explanation

The document is removed from this print job and is now associated with JES output group *output-group*. This situation occurs when the operator changes one or more of the JES output-group criteria (such as, class, destination, or forms) for the document while the print job is on the JES spool. JES removes the document from its original print job because all documents in a print job must have the same output-group criteria.

System action

Infoprint Server continues to print the other documents in the print job.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP155I	Another program is processing this document. IP PrintWay cannot select it until it becomes available.

Explanation

IP PrintWay tried to acquire the document (output data set) on the JES spool. However, another process already acquired it.

System action

IP PrintWay processes the print job again after the retry interval expires. When all the retransmissions are attempted, IP PrintWay retains the print job if retention for failed print jobs is requested for the print job. If no retention is requested, IP PrintWay extended mode deletes the print job.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP156W	The Historical Inventory is not large enough to contain print job *job-name*, *job-identifier*, and all documents in the print job. Consider increasing the maximum size of the Historical Inventory.

Explanation

Infoprint Server cannot store information about a print job and all its documents in the Historical Inventory because of insufficient space in the Historical Inventory. This situation can occur when a print job contains a large number of documents. As a result, Infoprint Central cannot display information for this print job in the Infoprint Server Print Job History table.

Consider increasing the maximum size of the Historical Inventory so that it can hold historical information for print jobs with a large number of documents.

In the message text:

job-name
    Name of the print job.

job-identifier
    Job ID of the print job.

System action

Infoprint Server deleted information about the print job from the Historical Inventory.

Operator response

None.

System programmer response

Consider increasing the maximum size of the Historical Inventory in the **max-historical-inventory-size** attribute. For information about this attribute, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP157E	The Printer Inventory *file-name* file is missing.

Explanation

A required Printer Inventory file is missing. In the message text:

file-name
    Name of the missing file.

System action

Infoprint Server does not start.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP159E	File *file-name* cannot be used. Its version, *version*, is incorrect.

Explanation

Infoprint Server does not support the file format of *file-name*. In the message text:

file-name
  Name of the unsupported file.

version
  Version of the unsupported file.

System action

Processing stops.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Provide a current version of *file-name*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP160I	An empty Printer Inventory *inventory-filename inventory-version* was created.

Explanation

Infoprint Server created an empty Printer Inventory. The Printer Inventory does not contain any printer definitions or other types of definitions. If this is the first time you started Infoprint Server, use the Infoprint Server ISPF panels or the Printer Inventory Definition Utility (PIDU) to create printer definitions and other definitions. Otherwise, you must restore a backup copy of the latest Printer Inventory.

In the message text:

inventory-filename
  The name of the Printer Inventory file that Infoprint Server created.

inventory-version
  The version of the Printer Inventory that Infoprint Server created.

System action

Infoprint Server continues processing.

Operator response

If this is not the first time you started Infoprint Server, ask your system programmer to restore a backup copy of the Printer Inventory.

System programmer response

Restore the latest backup copy of the Printer Inventory that you created with the **pidu** command. The backup copy can contain any version of the Printer Inventory. When you restore the backup copy, Infoprint Server creates definitions in the format that Infoprint Server supports.

For information about how to restore the Printer Inventory, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP161W	Infoprint Server could not add health checks to the Health Checker because *macro* failed with return code *retcode* and reason code *reasoncode*.

Explanation

An error occurred when Infoprint Server tried to add Infoprint Server health checks (IBMINFOPRINT) to the IBM Health Checker for z/OS.

In the message text:

macro
 The macro that failed.

retcode
 The return code from the macro.

reasoncode
 The reason code from the macro.

System action

Infoprint Server continues processing. The IBMINFOPRINT health checks might not run.

Operator response

Notify your system programmer.

System programmer response

If you do not use the IBM Health Checker, you can ignore this message.

If you use the IBM Health Checker, correct the problem. For information about the return code and reason code in the message text:

• For the HZSCHECK macro, see *IBM Health Checker for z/OS User's Guide*.
• For the CSVDYNEX macro, see *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*.

In addition, look for other messages in the console log that might indicate the reason for the failure.

After you correct the problem, restart Infoprint Server to add the health checks.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP162W	Infoprint Server could not add health checks because required modules are missing. Enter this command to refresh LNKLIST: F

LLA,REFRESH. Then restart Infoprint Server.

Explanation

Infoprint Server cannot add Infoprint Server health checks (IBMINFOPRINT) to the IBM Health Checker for z/OS because required Infoprint Server modules are missing.

System action

Infoprint Server continues processing. The IBMINFOPRINT health checks cannot run.

Operator response

Notify your system programmer.

System programmer response

If you do not use the IBM Health Checker, you can ignore this message.

If you use the IBM Health Checker, enter this command to refresh LNKLIST:

```
F LLA,REFRESH
```

After you refresh the LNKLIST, restart Infoprint Server to add the health checks.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP163I   Adding Infoprint Server health checks failed because the Health

Checker component is not active. Enter this command to start Health Checker: START HZSPROC.

Explanation

Infoprint Server cannot add Infoprint Server health checks (IBMINFOPRINT) to the IBM Health Checker for z/OS because the Health Checker is not running.

System action

Infoprint Server continues processing. The IBMINFOPRINT health checks cannot run until you start the Health Checker.

Operator response

Notify your system programmer.

System programmer response

If you do not use the Health Checker, you can ignore this message.

If you use the Health Checker, enter this console command to start it:

```
START HZSPROC
```

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP164I   Diagnostic information for JES SSI *nn*: return code *return-code* reason

code *reason-code* [*additional-information*].

Explanation

Infoprint Server sent a call to the JES subsystem interface (SSI), and the SSI returned an unexpected result. This message can occur during normal processing or because a problem exists. This message contains information that can help diagnose a problem if one exists. If a problem exists, the message log usually contains another error message.

In the message text:

nn
    The SSI call.

return-code
    The return code from the SSI call.

reason-code
    The reason code from the SSI call.

additional-information
    Additional information from the SSI call.

System action

Infoprint Server continues processing.

Operator response

Notify your system programmer.

System programmer response

If other messages in the message log indicate a problem, use the information in this message to help diagnose the problem. Otherwise, you can ignore this message.

For information about the return code and reason code in the message, see *z/OS MVS Using the Subsystem Interface*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP165E   **JES2 secondary subsystem** *jes-name* **is not defined to MVS. Correct the jes-name attribute in the aopd.conf configuration file, then restart Infoprint Server.**

Explanation

The JES2 secondary subsystem that is specified in the aopd.conf configuration file is not defined to MVS.

In the message text:

jes-name
    Is the name of the JES2 secondary subsystem.

System action

Infoprint Server ends.

Operator response

Notify your system programmer.

System programmer response

Correct the **jes-name** attribute in the aopd.conf configuration file. Then, restart Infoprint Server. For information about the **jes-name** attribute and how to edit the aopd.conf file, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP166E   **JES2 secondary subsystem *jes-name* is not active. Restart JES2 *jes-name*, then restart Infoprint Server.**

Explanation

The JES2 secondary subsystem that is specified in the `aopd.conf` configuration file is defined to MVS but is not active.

In the message text:

jes-name
    Is the name of the JES2 secondary subsystem.

System action

Infoprint Server ends.

Operator response

Notify your system programmer.

System programmer response

Restart the JES2 secondary subsystem that is specified in the message text. Then, restart Infoprint Server.

If the JES2 secondary subsystem is started, make sure that the **jes-name** attribute in the `aopd.conf` configuration file is correct. For information about the **jes-name** attribute and how to edit the `aopd.conf` file, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP167I   **Infoprint Server is processing jobs and output from JES secondary subsystem *jes-name*.**

Explanation

Infoprint Server successfully connected to the JES2 secondary subsystem specified in the **jes-name** attribute in the `aopd.conf` configuration file. This message is for information only.

In the message text:

jes-name
    Is the name of the JES2 secondary subsystem.

System action

Infoprint Server continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP168E　　**Infoprint Server is ending because JES2 secondary subsystem *jes-name* ended.**

Explanation

Infoprint Server is working with a JES2 secondary subsystem. However, the JES2 secondary subsystem is ending and Infoprint Server can no longer continue.

In the message text:

jes-name
　　Is the name of the JES2 secondary subsystem.

System action

Infoprint Server ends.

Operator response

Notify your system programmer.

System programmer response

Restart the JES2 secondary subsystem that is specified in the message text. Then, restart Infoprint Server.

If you want to work with the JES2 or JES3 primary subsystem, comment out the **jes-name** attribute in the `aopd.conf` configuration file before you restart Infoprint Server.

For information about the **jes-name** attribute and how to edit the `aopd.conf` file, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP169I　　**Infoprint Server is connecting to JES2 secondary subsystem *jes-name*.**

Explanation

Infoprint Server is connecting to the JES2 secondary subsystem specified in the **jes-name** attribute in the `aopd.conf` configuration file. This message is for information only.

In the message text:

jes-name
　　Is the name of the JES2 secondary subsystem.

System action

Infoprint Server continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP170I   The document was removed from this print job.

Explanation

The document was removed from the print job. The document might be moved to another print job or deleted from the JES spool.

System action

Infoprint Server continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP171I   *diagnostic-information*

Explanation

This message contains information that can help diagnose a problem if an error occurs later. It does not indicate that a problem exists.

In the message text:

diagnostic-information
     Diagnostic information

System action

Infoprint Server continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP172E   SAF access authorization check failed with SAF_RC=*saf-retcode* RACF_RC=*racf-retcode* RACF_RSN=*racf-reasoncode*.

Explanation

Infoprint Server issued the System Authorization Facility (SAF) RACROUTE REQUEST=FASTAUTH macro to verify that the program that is trying to access the Printer Inventory has access to the AOP.ADMINISTRATOR profile in the PRINTSRV class. The RACROUTE return code or reason code indicates a problem with RACF configuration.

In the message text:

saf-retcode
     SAF return code in hexadecimal format.

racf-retcode
     RACF return code in hexadecimal format.

racf-reasoncode
> RACF reason code in hexadecimal format.

System action

Infoprint Server does not allow access to the Printer Inventory.

Operator response

Notify the system programmer that this error occurred.

System programmer response

To fix the problem, look up the RACROUTE REQUEST=FASTAUTH return codes and reason codes in *z/OS Security Server RACROUTE Macro Reference*.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP173E	Inventory caller for request type *type* (*nn*) is not authorized to *access* Printer Inventory.

Explanation

A program requested to read or update the Printer Inventory. However, the user who started the program is not authorized to access the Printer Inventory. For example, the user might not have access to the Printer Inventory, or the user might have READ access to the Printer Inventory but is requesting to update the Printer Inventory.

In the message text:

type
> Type of request that is made to the Printer Inventory.

nn
> Request number.

access
> Type of access that is required: READ or UPDATE. READ is required to read the Printer Inventory. UPDATE is required to update the Printer Inventory.

System action

Infoprint Server does not allow the program to access the Printer Inventory.

Operator response

Notify the system programmer that this error occurred.

System programmer response

To allow the program to access the Printer Inventory, give the user who starts the program the required access to the AOP.ADMINISTRATOR profile in the PRINTSRV class. For information about the AOP.ADMINISTRATOR profile, see *z/OS Infoprint Server Customization*.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP174E	Inventory caller for request type *type* (*nn*) is not authorized to *access* system configuration.

Explanation

A program has requested to read or update the system configuration definition in the Printer Inventory. However, the user who started the program is not authorized to access the system configuration definition. For example, the user might not have access to the system configuration definition, or the user might have READ access to the system configuration definition but is requesting to update the system configuration definition.

In the message text:

type
Type of request made.

nn
Request number.

access
Type of access that is required: READ or UPDATE.

System action

Infoprint Server does not allow the program to access the system configuration definition.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Look for another message that indicates which program attempted to access the system configuration definition. To allow the program to access the system configuration definition, give the user who started the program the required access to the AOP.CONFIGURATION profile in the PRINTSRV class. If the AOP.CONFIGURATION profile does not exist, you can give the user the required access to the AOP.ADMINISTRATOR profile.

For information about the AOP.CONFIGURATION and AOP.ADMINISTRATOR profiles, see *z/OS Infoprint Server Customization*.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP175W　　　　**Internal error in *source*. Request=*request*, return code = *return-code*, reason code = *reason-code*.**

Explanation

An internal error occurred in an Infoprint Server module. If another error occurs, the information in this message can help IBM diagnose the problem.

In the message text:

source
Name of the module that detected the error.

request
Type of request that is being processed.

return-code
Internal return code.

reason-code
Internal reason code.

System action

Processing continues.

Operator response

None.

System programmer response

If another error occurs, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. Send this message and the subsequent error messages to IBM.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP176E   **RACROUTE LIST CLASS(*class*) failed with SAF_RC=*saf-retcode* RACF_RC=*racf-retcode* RACF_RSN=*racf-reasoncode*.**

Explanation

Infoprint Server issued the System Authorization Facility (SAF) RACROUTE LIST macro to verify that the program that is trying to access the Printer Inventory has access to the AOP.CONFIGURATION or AOP.ADMINISTRATOR profile in the PRINTSRV class. The RACROUTE return code or reason code indicates a problem with RACF configuration.

In the message text:

class
> RACF class name.

saf-retcode
> SAF return code in hexadecimal format.

racf-retcode
> RACF return code in hexadecimal format.

racf-reasoncode
> RACF reason code in hexadecimal format.

System action

Infoprint Server does not allow access to the Printer Inventory.

Operator response

Notify the system programmer that this error occurred.

System programmer response

To diagnose the problem, look up the RACROUTE LIST return code and reason code in *z/OS Security Server RACROUTE Macro Reference*. After you fix the problem, the user can try to access the Printer Inventory again.

User response

Notify the system programmer that this error occurred. After the problem is fixed, try to access the Printer Inventory again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP177W   **The system configuration cannot be created, renamed or deleted.**

Explanation

You issued a `pidu create`, `rename`, or `delete` command to create, rename, or delete the system configuration definition in the Printer Inventory. However, these `pidu` commands are not allowed for the system configuration definition.

You can use the `pidu modify` command (or the Infoprint Server ISPF panels) to modify attributes in the system configuration definition, and you can use the `pidu force-create` command to replace the system configuration definition.

System action

The `pidu` command was not accepted.

Operator response

None.

System programmer response

None.

User response

For information about:

- Editing the system configuration definition with the ISPF panels, see *z/OS Infoprint Server Customization*.
- The **pidu** command, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP178W   **You are not authorized to *access* the Printer Inventory.**

Explanation

You requested to read or update the Printer Inventory. However, you do not have the required RACF authorization.

In the message text:

access
     Type of access that is required: READ or UPDATE.

System action

The request to read or update the Printer Inventory was not accepted.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Give the user the required access to the AOP.ADMINISTRATOR profile in the PRINTSRV class. For information about the AOP.ADMINISTRATOR profile, see *z/OS Infoprint Server Customization*.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP179W   **You are not authorized to *access* the system configuration.**

Explanation

You requested to read or update the system configuration definition in the Printer Inventory. However, you do not have the required RACF authorization.

In the message text:

access
     Type of access that is required: READ or UPDATE.

System action

The request to read or update the system configuration definition was not accepted.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Give the user the required access to the AOP.CONFIGURATION profile in the PRINTSRV class. If the AOP.CONFIGURATION profile is not defined, you can give the user access to the AOP.ADMINISTRATOR profile instead. For information about the AOP.CONFIGURATION and AOP.ADMINISTRATOR profiles, see *z/OS Infoprint Server Customization*.

User response

Notify the system programmer that this error occurred. After the problem is corrected, try the request again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP180E   **Cross-system coupling facility (XCF) *macro* request failed with return code *return-code*, reason code *reason-code*, group *group*, member *member*, source *source-code*.**

Explanation

Infoprint Server issued an XCF macro that failed. If *macro* is:

- IXCJOIN: Infoprint Server requested to join an XCF group.
- IXCQUERY: Infoprint Server requested information about an XCF group.

In the message text:

macro
    XCF macro name.

return-code
    Return code from the XCF macro, in hexadecimal.

reason-code
    Reason code from the XCF macro, in hexadecimal.

group
    XCF group name.

member
    Usually, the XCF member name of the Infoprint Server daemon or command that is issuing the request. However, if *macro* is IXCQUERY, *return-*

code is 8, and *reason-code* is 10, *member* is instead the name of the daemon that Infoprint Server is requesting information about.

source-code
    A code that identifies where Infoprint Server detected the problem. This code can help IBM diagnose the problem

System action

If *macro* is:

- XCFJOIN: Infoprint Server ends or the Infoprint Server daemon ends.
- XCFQUERY: Processing continues.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Look up the return and reason codes for the XCF macro in *z/OS MVS Programming: Sysplex Services Reference*.

After the problem is corrected, if *macro* is "XCFJOIN", start Infoprint Server again.

If you cannot correct the problem, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP182W — Cross-system coupling facility (XCF) *macro* request unsuccessful (*return-code / reason-code*) group *group*, member *member*—continuing.

Explanation

Infoprint Server issued an XCF macro that failed.

In the message text:

macro
   The name of the XCF macro.

return-code
   The hexadecimal return code from the XCF macro.

reason-code
   The hexadecimal reason code from the XCF macro.

group
   The XCF group name.

member
   If *macro* is IXCQUERY, *return_code* is 8, and *reason_code* is 10, the name of the daemon that Infoprint Server requested information about. Otherwise, the XCF member name of the Infoprint Server daemon or command that issued the request.

System action

The issuing daemon or command continues processing.

Operator response

Notify your system programmer or administrator that the error occurred.

System programmer response

Look up the return and reason codes for the XCF macro in *z/OS MVS Programming: Sysplex Services Reference*.

If you cannot correct the problem, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP184I — A cross-system coupling facility (XCF) message is ignored: *message*

Explanation

The cross-system coupling facility (XCF) component of z/OS sent a signal or message that Infoprint Server cannot interpret. The message from XCF might be useful for diagnostic purposes if a subsequent error occurs.

In the message text:

message
   Message from XCF.

System action

Processing continues.

Operator response

None.

System programmer response

If another error occurs, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. Send this message and the subsequent error messages to IBM.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP185E	AOPLCMPL did not load. Load return code is *return-code* and reason code is *reason-code*.

Explanation

Infoprint Server cannot load the system logger exit AOPLCMPL. This error means that Infoprint Server was not installed correctly.

In the message text:

return-code
    Hexadecimal return code from the LOAD macro.

reason-code
    Hexadecimal reason code from the LOAD macro.

System action

Infoprint Server continues processing. However, if you set up a system logger log stream for Infoprint Server messages, Infoprint Server cannot write messages to the log stream.

Operator response

Notify the system programmer that this error occurred. Restart Infoprint Server after AOPLCMPL is available.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance. When AOPLCMPL is available, restart Infoprint Server.

Tip: If you set up a log stream for Infoprint Server messages, request that Infoprint Server write messages to the z/OS UNIX file system until you fix the problem. Use the Infoprint Server ISPF panels to edit the system configuration definition. Edit these fields and save the panel:

- Clear the log stream name in the **Log stream name** field.

- Specify a value greater than 0 in the **Log retention** field.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the z/OS UNIX file system. After the problem is fixed, edit these fields again and save the panel:

- Specify the log stream name in the **Log stream name** field.
- Set the **Log retention** field to its original value.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the log stream.

For information about the LOAD return code and reason code, see *z/OS MVS System Codes*.

User response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP186E	*user* is not authorized to *access* log stream *log-stream*.

Explanation

Infoprint Server tried to access the system logger log stream to read or write messages. However, the user did not have the required authorization to the RACF resource profile that protects the log stream:

- The user who starts Infoprint Server must have UPDATE access.

- The user who uses the **aoplogu** command to read messages must have READ access.

In the message text:

user
 ID of the user who is not authorized. If the type of required access is UPDATE, this is the ID of the user who started Infoprint Server.

access
 Type of access that is required to the RACF resource profile: READ or UPDATE.

log-stream
 Name of the log stream.

System action

Infoprint Server continues processing, but if the required access is UPDATE, messages are lost until the problem is corrected.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Look for another message from RACF (for example, message ICH408I) that includes the name of the log stream profile and give the user ID the required access to that profile. When the user has the required access, Infoprint Server automatically starts writing messages to the log stream.

For information about how to set up security for the Infoprint Server log stream, see *z/OS Infoprint Server Customization*.

Tip: To request that Infoprint Server write messages to the z/OS UNIX file system instead of to the system logger while you fix the problem, use the Infoprint Server ISPF panels to edit the system configuration definition. Edit these fields and save the panel:

1. Clear the log stream name in the **Log stream name** field.
2. Specify a value greater than 0 in the **Log retention** field.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the z/OS UNIX file system. After the problem is fixed, edit these fields again and save the panel:

1. Specify the log stream name in the **Log stream name** field.
2. Set the **Log retention** field to its original value.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server

automatically starts writing messages to the log stream.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP187E	*log-stream* **is not a valid log stream name.**

Explanation

The log stream for Infoprint Server messages that is specified in the system configuration definition is not defined to the system logger. You must define the log stream to the MVS system logger before you specify the log stream name in the system configuration definition.

In the message text:

log-stream
 Name of the log stream that is specified in the system configuration definition.

System action

Infoprint Server continues processing, but messages are lost until the problem is corrected.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Make sure that the log stream name is spelled correct in the Infoprint Server system configuration definition.

Use the Infoprint Server ISPF panels to view the system configuration definition and correct the name in the **Log stream name** field (**logstream-name** attribute) if necessary. When you correct the name and save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the specified log stream.

If the log stream name is correct in the message text, make sure that the log stream is defined correctly to the system logger. You can use the MVS DISPLAY LOGGER command to display the status of log stream. For information about the DISPLAY LOGGER command, see *z/OS MVS System Commands*.

For information about how to define the log stream to the logger, see *z/OS Infoprint Server Customization*.

When the log stream is defined correctly, Infoprint Server automatically starts writing messages to the log stream.

Tip: To request that Infoprint Server write messages to the z/OS UNIX file system instead of to the system logger while you fix the problem, use the Infoprint Server ISPF panels to edit the system configuration definition. Edit these fields and save the panel:

1. Clear the log stream name in the **Log stream name** field.
2. Specify a value greater than 0 in the **Log retention** field.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the z/OS UNIX file system. After the problem is fixed, edit these fields again and save the panel:

1. Specify the log stream name in the **Log stream name** field.
2. Set the **Log retention** field to its original value.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the log stream.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP188E	Log stream *log-stream* is in use on another system.

Explanation

Another system in the sysplex is using a system logger log stream with the same name. If a log stream is a DASD-only log stream, only one system in a sysplex can write to it.

In the message text:

log-stream
    Name of the log stream that is specified in the system configuration definition.

System action

Infoprint Server continues processing, but messages are lost until the problem is corrected.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Do one of these:

- Define a DASD-only log stream only for Infoprint Server messages on this system. Then, use the Infoprint Server ISPF panels to edit the system configuration definition. Specify the log stream name in the **Log stream name** and save the panel. When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically writes messages to the specified log stream.
- Convert the log stream to a CF-structure log stream.

When the problem is corrected, Infoprint Server automatically starts writing messages to the log stream.

For information about how to define a log stream for Infoprint Server messages, see *z/OS Infoprint Server Customization*.

For information about how to define log streams to the MVS system logger, see *z/OS MVS Setting Up a Sysplex*.

Tip: To request that Infoprint Server write messages to the z/OS UNIX file system instead of to the system logger while you fix the problem, use the Infoprint Server ISPF panels to edit the system configuration definition. Edit these fields and save the panel:

1. Clear the log stream name in the **Log stream name** field.
2. Specify a value greater than 0 in the **Log retention** field.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the z/OS UNIX file system. After the problem is fixed, edit these fields again and save the panel:

- Specify the log stream name in the **Log stream name** field.
- Set the **Log retention** field to its original value.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the log stream.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP189E	System logger *macro* request for log stream *log-stream* failed with return code *return-code*, reason code *reason-code*.

Explanation

The system logger macro to connect to, read, or write to the Infoprint Server log stream for messages failed.

In the message text:

macro
    System logger macro, for example:

- IXGBRWSE, which indicates a browse request
- IXGCONN REQUEST=CONNECT, which indicates a connect request
- IXGWRITE REQUEST=WRITE, which indicates a write request

log-stream
    Name of the log stream.

return-code
    Hexadecimal return code from the macro.

reason-code
    Hexadecimal reason code from the macro.

System action

Infoprint Server continues processing, but if the macro is IXGCONN or IXGWRITE, messages are lost until the problem is corrected.

Operator response

Notify the system programmer that this error occurred.

System programmer response

For an explanation of the return code and reason code for the macro, see *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* .

After you correct the problem, Infoprint Server automatically starts writing messages to the log stream.

Tip: To request that Infoprint Server write messages to the z/OS UNIX file system instead of to the system logger while you fix the problem, use the Infoprint Server ISPF panels to edit the system configuration definition. Edit these fields and save the panel:

1. Clear the log stream name in the **Log stream name** field.
2. Specify a value greater than 0 in the **Log retention** field.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the z/OS UNIX file system. After the problem is fixed, edit these fields again and save the panel:

1. Specify the log stream name in the **Log stream name** field.

2. Set the **Log retention** field to its original value.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the log stream.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP190W	**System logger *macro* request for log stream *log-stream* was successful, but with return code *return-code*, reason code *reason-code*.**

Explanation

The Infoprint Server request to the system logger was successful. However, the system logger macro returned a return code and reason code that might indicate a problem.

In the message text:

macro
  The system logger macro, for example:

  - IXGBRWSE, which indicates a browse request
  - IXGCONN REQUEST=CONNECT, which indicates a connect request
  - IXGWRITE REQUEST=WRITE, which indicates a write request

log-stream
  Name of the log stream.

return-code
  Hexadecimal return code from the system logger.

reason-code
  Hexadecimal reason code from the system logger.

System action

Infoprint Server continues processing.

Operator response

Notify the system programmer that this error occurred.

System programmer response

If the problem persists, use the return code and reason code in this message to help diagnose the problem. For an explanation of the return code and reason code for the macro, see *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* .

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP191I	**File *filename* contains one or more attributes that have been migrated to the Printer Inventory. The attributes in the file are ignored.**

Explanation

Infoprint Server no longer uses most or all of the attributes in the Infoprint Server configuration file *filename*. To change the migrated attributes, you must

now edit the attributes in the system configuration definition in the Printer Inventory.

In the message text:

filename
Name of the Infoprint Server configuration file.

If the file name is `aopmsg.conf`, all attributes are ignored.

If the file name is `aopd.conf`, all attributes are ignored except these:

- **base-directory**
- **inventory**
- **jes-name**
- **resolve-printway-printers**
- **start-daemons**
- **xcf-group-qualifier**

System action

Processing continues. Infoprint Server ignores all attributes in the configuration file except those listed in the Explanation.

Operator response

Notify the system programmer that this message was received.

System programmer response

To avoid confusion, comment out or delete the ignored attributes in the file.

Tips:

1. To comment out an attribute, type a pound sign (#) in the first column of the line with the attribute. Be careful to comment out or delete only the ignored attributes.

2. If the file is `aopmsg.conf`, you can delete the file because all attributes are ignored.

User response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP192E	The Configuration object is missing in the inventory.

Explanation

The required system configuration definition does not exist in the Printer Inventory.

System action

Infoprint Server does not start successfully. Infoprint Server waits until the system configuration definition is created and then starts.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Run this command:

```
loadprinterinventory pidu_export
```

where *pidu_export* is the name of the PIDU export file.

If you do not have a PIDU export file, use the ISPF System Configuration panel or the Printer Inventory Definition Utility (PIDU) to edit and save the system configuration definition. See *z/OS Infoprint Server Operation and Administration*. Otherwise, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP193E　　　**The system logger address space is not available.**

Explanation

You defined a system logger log stream for Infoprint Server messages. However, the system logger address space is not started.

System action

Infoprint Server continues processing, but messages are lost until the problem is corrected.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Start or restart the system logger address space. For information about how to start the system logger, see *z/OS MVS Setting Up a Sysplex*.

When the address space is started, Infoprint Server automatically starts writing messages to the log stream.

Tip: To request that Infoprint Server write messages to the z/OS UNIX file system instead of to the system logger while you fix the problem, use the Infoprint Server ISPF panels to edit the system configuration definition. Edit these fields and save the panel:

- Clear the log stream name in the **Log stream name** field.
- Specify a value greater than 0 in the **Log retention** field.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the z/OS UNIX file system. After the problem is fixed, edit these fields again and save the panel:

- Specify the log stream name in the **Log stream name** field.
- Set the **Log retention** field to its original value.

When you save the Infoprint Server System Configuration ISPF panel, Infoprint Server automatically starts writing messages to the log stream.

User response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP194I　　　**No members are active in cross-system coupling facility (XCF) group *group*.**

Explanation

The command that issued this message did not find the expected Infoprint Server daemons running in the named XCF group.

In the message text:

group
　　XCF group name in format: AOP*pppp*[*q*]:

　　AOP
　　　　Infoprint Server identifier.

　　pppp
　　　　Printer Inventory name.

　　q
　　　　Optional one-character XCF group qualifier that is specified in the **xcf-group-qualifier** attribute in the Infoprint Server configuration file, `aopd.conf`.

System action

Infoprint Server cannot complete the command.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Make sure that Infoprint Server is running. Then, verify that the correct XCF group name is specified.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Various commands, such as **aopsend** or **aopstat**.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP195E	Member *member* is already active in cross-system coupling facility (XCF) group *group*.

Explanation

An Infoprint Server process issued an IXCJOIN macro to join a cross-system coupling facility (XCF) group. The IXCJOIN macro failed with a return code of 8 and a reason code of 8, which indicates that a process named *member* is already active in the sysplex. This situation might occur when another instance of Infoprint Server is already running in the sysplex and is using the same XCF group name. The XCF group name must be unique in a sysplex, and each member name must be unique within its XCF group.

In the message text:

member
    XCF member name, which identifies the daemon that is trying to join the XCF group. AOPIBM00 is the member name for daemon **aopd**.

group
    XCF group name in format: AOP*pppp*[*q*]:

    AOP
        Infoprint Server identifier.

    pppp
        Printer Inventory name.

    q
        Optional one-character XCF group qualifier that is specified in the **xcf-group-qualifier** attribute in the Infoprint Server configuration file, aopd.conf.

System action

The Infoprint Server process that is named *member* does not start.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Specify a unique XCF group qualifier in the **xcf-group-qualifier** attribute in the Infoprint Server configuration file, aopd.conf. The qualifier must be unique for each Infoprint Server with the same Printer Inventory name in a sysplex. As an alternative, you can specify a unique Printer Inventory name in the **inventory** attribute in the aopd.conf file.

To list all currently defined XCF groups or to display the members of the group that is named in the message text, you can use the MVS DISPLAY XCF command or the AOPSTAT command. For example, to display the members of XCF group AOPAOP1, enter one of these commands:

```
DISPLAY XCF,GROUP,AOPAOP1
```

or

```
START AOPSTAT
```

For information about the DISPLAY XCF command, see *z/OS MVS System Commands*.

For more information about the **xcf-group-qualifier** and **inventory** attributes, see *z/OS Infoprint Server Customization*.

After the problem is corrected, start Infoprint Server again.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP196I	Attribute *attribute* is not supported. Processing continues.

Explanation:
You specified an attribute that is no longer supported.

System action

The unsupported attribute is ignored and processing continues.

Operator response

Do not specify the unsupported attribute.

System programmer response

Do not specify the unsupported attribute.

User response

Do not specify the unsupported attribute.

Problem determination

Not applicable.

Module

Not applicable.

Source

The **aopd** daemon at startup or the **pidu** command.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP197I	Request to *action target* has been sent to daemon *daemon* in XCF group *group*.

Explanation
The requested action is sent to the specified daemon for processing.

In the message text:

action
　The requested action, for example, **start**.

target
　The object of the requested action, for example, a printer name.

daemon
　The name of the XCF member daemon that does the action.

group
　The name of the XCF group.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

Not applicable.

User response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

The TSO/E AOPCMND command.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP198E	AOPCMND failed with *diagnostic_data*.

Explanation:
There was an error in processing the AOPCMND command, probably because another service routine failed. The *diagnostic_data* describes the cause of the failure.

System action:
The requested XCF signal is not sent to the XCF daemon.

Operator response

Notify the system programmer or administrator that this error occurred.

System programmer response:
If you cannot correct the problem, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

If *diagnostic_data* begins with IXC*xxxxx*, see *z/OS MVS Programming: Sysplex Services Reference* under the description of the named macro for an explanation of the return code and reason code.

If *diagnostic_data* begins with IKJSCAN or IKJPARS, see *z/OS TSO/E Programming Services* for an explanation of the return code and reason code.

Module

Not applicable.

Source

The TSO/E AOPCMND command.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP199E	The option *option1* is required when *option2* is specified.

Explanation:
A command specifies a parameter that requires another parameter, but the required parameter is missing. For example, the **aopstat** command specifies the **-lm** parameter, but not the **-m** *member* parameter.

System action:
The command is not run.

Operator response:
Reissue the command with all required parameters.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP998E	Could not retrieve message, cat=*catalog_name*, set=*setnum*, num=*msgnum*

Explanation

Message *msgnum* from set *setnum* cannot be retrieved from message catalog *catalog_name*. This problem might be caused by Print Interface trying to access a catalog that was edited and therefore changed information or is missing messages.

This problem might also occur if you export the _CEE_ENVFILE environment variable in your `/etc/profile` file. IBM suggests that you do not use this environment variable because it can supersede shell environment variables such as NLSPATH. For more information about the _CEE_ENVFILE environment variable, see *z/OS UNIX System Services Command Reference*.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Verify that the catalog name listed in the message is the catalog that was installed with the product and not one that was altered. If Print Interface is trying to access the correct message catalog, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2026W	The format of the input document might not be valid for the transform.

Explanation

The PostScript or PDF input data stream submitted to the PDF to AFP or PostScript to AFP transform might not conform to Adobe standards.

System action

Processing continues if possible.

System programmer response

Not applicable.

User response

If additional error information follows or the output is not correct, make sure your input datastream contains either PDF or PostScript data, and conforms to Adobe standards.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2028I	A transform message was generated: *message*

Explanation

The data stream transform sent a message.

In the message text:

message
    Message from the transform.

System action

The severity of the error determines whether Infoprint Server continues processing the document.

Operator response

Not applicable.

System programmer response

If the transform message indicates a transform problem, correct the problem and submit the transform or print request again.

User response

If the transform message indicates an error in the input data stream, correct the error and submit the transform or print request again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2029E   **The transform detected an error or degradation in the input datastream, or an error or degradation occurred while transforming the document. No output was produced.**

Explanation

A transform error occurred.

System action

The transform request was not completed. No output was produced.

Operator response

Not applicable.

System programmer response

For information about the transform problem, see any associated messages from the transform. After you correct the problem, you might need to restart the Infoprint Server Transform Manager.

To continue processing documents when this type of error occurs, do one of these:

- Set the AOP_FAIL_ON_ERROR -> no environment variable for the transform class in the transform configuration file, `aopxfd.conf`. For information about the environment variable, see the documentation for the transform.
- Set the **Fail on error** field to **No** in the printer definition.

User response

If there is an error in the input data stream, correct the error and submit the transform or print request again. If the input data stream is correct, notify the system programmer that this error occurred.

To continue processing the document when this error occurs, resubmit the print or transform request that specifies the **fail-on-transform-error=no** job attribute. For information about the **fail-on-transform-error** job attribute, see *z/OS Infoprint Server User's Guide*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2061E   **The document contains EBCDIC data. The SAP to AFP transform can only transform ASCII or Unicode SAP data.**

Explanation

The SAP to AFP transform detected EBCDIC data. The transform accepts only ASCII or Unicode data.

System action

The request is not completed.

System programmer response

Not applicable.

User response

In the SAP R/3 output device, select either SAPGOF (Generic Output Format) or SAPGOFU (Unicode encoded data).

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2201E   **The owner of the ps2afpd transform file must not have a UID of 0, and the set-user-ID flag must be turned on.**

Explanation

The Infoprint Server Transform Manager attempted to start the **ps2afpd** daemon. However, for security reasons, the Infoprint Server Transform Manager requires that (1) the owner of the executable file for the transform *not* have a UID of 0 and (2) the set-user-ID flag for the file is turned on. The message contains the name of the executable file.

System action

The Infoprint Server Transform Manager does not start the **ps2afpd** daemon. The Infoprint Server Transform Manager attempts to start other transform daemons configured in the transform configuration file, `aopxfd.conf`.

System programmer response

Use the **ls** command to list the owner of the file and to verify that the set-user-ID flag is on:

```
ls -l /usr/lpp/Printsrv/bin/ps2afpd
```

Output from the **ls** command should look like this, assuming that the owning user name is NOBODY and that the owning group name is NOGROUP:

```
-rws------  1  NOBODY NOGROUP ...
```

The lowercase letter *s* in the owner permissions section indicates that the set-user-ID flag is on and that the owner has permission to execute the file. Use the **id** command to determine the UID of the user.

If the user has a UID of 0, enter the z/OS UNIX **chown** command to change the owner of the file. For example, to change the owner of file ps2afpd to NOBODY, type:

```
chown NOBODY /usr/lpp/Printsrv/bin/ps2afpd
```

If the set-user-ID flag is off, or if you entered the **chown** command, use the **chmod** command to turn on the set-user-ID flag. For example, to turn the flag on for file ps2afpd, type:

```
chmod u+s /usr/lpp/Printsrv/bin/ps2afpd
```

For more information, see *IBM Infoprint Transforms to AFP for z/OS* .

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2500W   Font substitution information:
**   *date-time text***

Explanation

The PDF to AFP or PostScript to AFP transform did not find one or more fonts that a document requested, so it substituted similar fonts. To determine the substitute fonts, the transform used a font-substitution algorithm that you cannot modify.

In the message text, *date-time* is the date and time the message was written.

The text that follows this message identifies the fonts that the document requested and the fonts that the transform substituted.

The AOP_FONT_SUBSTITUTION_MESSAGES environment variable determines whether the transform writes this message when it substitutes fonts in a document if no other errors occurred.

System action

The document is transformed without error.

System programmer response

In most cases, the substitute font results in acceptable output and no response is necessary. However, if the output is not acceptable, you might be able to add the original font to the transform. For information, see *IBM Infoprint Transforms to AFP for z/OS* .

If you added a font to the transform and the transform still substitutes another font, make sure that you specified the correct name of the font directory in the AOP_RESOURCE_PATH environment variable in the transform configuration file, aopxfd.conf. For information, see *IBM Infoprint Transforms to AFP for z/OS* .

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2501E   The transform detected an error in
**   the input data stream, or an error**
**   occurred while transforming the**
**   document. No output was**
**   produced.**

Explanation

A transform error occurred.

System action

The transform request was not completed. No output was produced.

Operator response

None.

System programmer response

For information about the transform problem, see the accompanying messages from the transform. After you correct the problem, you might need to restart the Infoprint Server Transform Manager daemon.

If you do not want transform requests to fail when this type of error occurs, set the AOP_FAIL_ON_ERROR -> no environment variable for the transform instance in the transform configuration file, aopxfd.conf. If AOP_FAIL_ON_ERROR->no, the return code from the transform is 0. For information about how to edit the transform configuration file, see *IBM Infoprint Transforms to AFP for z/OS* .

User response

If there is an error in the input data stream to be transformed, correct the error. If the input data stream is correct, notify the system programmer that this error occurred. After the error is corrected, resubmit the transform request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2502I	The transform attempted to convert the document to AFP format. The input data stream might not be valid. Diagnostic information from transform *transform* follows.

Explanation

The information that follows this message is from the transform. You can use this information to diagnose the problem. In the message text, *transform* is the name of the transform in the format: *transform_class.#*.

System action

Processing continues if possible.

System programmer response

If no data stream error is found, contact an IBM service representative.

User response

Use the diagnostic information to correct any data stream errors.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2503I	The transform attempted to convert the document to AFP format. Trace information from transform *transform* follows.

Explanation

The diagnostic information that follows this message is from the transform. IBM can use this information to diagnose the transform problem. In the message text, *transform* is the name of the transform in the format: *transform_class.#*.

System action

Processing continues if possible.

System programmer response

If you cannot correct the error, contact an IBM service representative. Provide the diagnostic information to IBM.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2504E	The transform initialization failed. Diagnostic information from transform *transform* follows.

Explanation

The transform could not be initialized. In the message text, *transform* is the name of the transform in the format: *transform_class.#*.

System action

The transform request was not completed.

System programmer response

Contact an IBM service representative. Report the diagnostic information to IBM.

User response

Notify your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2505E	Not enough memory is available to transform the data stream. Make sure the region size is large enough and the -m option is not set in the transform configuration file.

Explanation

The transform could not obtain enough memory to convert the data stream. The data stream might be large or complex.

System action

The transform request is not completed. No output is produced.

System programmer response

Increase the amount of storage available to the transform:

- Increase the region size:
  - If you use the AOPSTART JCL procedure to start Infoprint Server, specify the region size in the REGION parameter of the EXEC statement.
  - If you issue the `aopstart` command from the z/OS UNIX command line during a TSO session, specify the region size in the SIZE option on the logon panel or logon procedure for the TSO user ID.
- Increase the maximum address space size for Infoprint Server:
  - Check the MAXASSIZE value in the BPXPRMxx member of SYS1.PARMLIB. MAXASSIZE sets the system-wide maximum address space size. You can set MAXASSIZE dynamically with the SETOMVS command. You can check MAXASSIZE from the operator console with this Display command: `d omvs,o`
  - Check the RACF ASSIZEMAX value for the user ID that starts Infoprint Server. ASSIZEMAX overrides the MAXASSIZE value. You can increase the ASSIZEMAX value on the RACF ALTUSER command.
- If you have IEFUSI exits that limit region sizes, make sure the limits in the IEFUSI exits do not apply to OMVS. Enter one of these commands:
  - If you do not want any exits to apply to OMVS:

    ```
    SETSMF SUBSYS(OMVS,NOEXITS)
    ```

  - If you need some exits to apply to OMVS:

    ```
    SETSMF SUBSYS(OMVS,EXITS(exits))
    ```

    In the EXITS parameter, specify the exits to apply to OMVS, but do not specify IEFUSI.

For more information about the IEFUSI exit, see *z/OS MVS Installation Exits*.

- Make sure that the **-m** option is not set in the entry for this transform in the Infoprint Server transform configuration file, `aopxfd.conf`.

User response

Notify your system programmer. After the problem is corrected, resubmit the transform or print request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2506W	The transform converted the first page of the input file to a page segment or overlay because no page number was specified in the -p option.

Explanation

The transform request specified the **-t** page segment or **-t** overlay option to convert the input file to an AFP page segment or overlay. The transform can create an AFP page segment or overlay for only one page in the input file. Because the transform request did not identify which page in the input file to use for the page segment or overlay, the transform used the first page.

System action

The transform completed successfully.

System programmer response

None.

User response

If the transform did not create a page segment of overlay of the correct page, resubmit the request and specify the page in the transform **-p** option.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2507E	This function is not allowed because the Infoprint Transforms to AFP product is not enabled.

Explanation

The product registration request failed.

System action

The transform creates no output.

System programmer response

Ensure that the product being used is listed and set to ENABLED on the system where it is being run. Check the enablement policy settings in SYS1.PARMLIB(IFAPRDxx) or contact an IBM representative. For more information, see *IBM Infoprint Transforms to AFP for z/OS* .

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Transforms to AFP for z/OS

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2801E	The remote transform returned an error: *error-message*

Explanation

InfoPrint Transform Manager for Linux detected an error. A transform option might not be valid, or the data stream might contain an error. In the message text, *error-message* is an error message from InfoPrint Transform Manager for Linux.

System action

The data was not transformed.

Operator response

None.

System programmer response

If the message contains message FUY04001E, which indicates that Infoprint Server cannot connect to InfoPrint Transform Manager for Linux, make sure that:

- The Infoprint Server remote transform configuration file, `aoprxf.conf`, contains the correct IP address (or host name) and port number for InfoPrint Transform Manager for Linux.
- The firewall lets the z/OS system communicate with InfoPrint Transform Manager for Linux with the TCP/IP protocol. For more information, see Customizing the TCP/IP firewall in *z/OS Infoprint Server Customization*.

User response

Correct the problem and resubmit the transform request. For information about the message in *error-message* and about the transform options, see *InfoPrint Transform Manager for Linux* in Ricoh Production Print Information Center (info.rpp.ricoh-usa.com/help/index.jsp).

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP2802E	No remote transform exists for *document-format* to *output-format*

Explanation

Infoprint Server cannot transform the document from the input document format to the requested output format because Infoprint Transform Manager for Linux does not provide a transform for these formats.

In the message text:

document-format
  The format of the input document. The user specified this format in the **document-format** job attribute, or Infoprint Server determined it by inspecting the input data stream.

output-format
  The format of the output document. The user or administrator specified this format in the **output-format** transform attribute, or Infoprint Server used the default of mo:dca-p.

System action

The data was not transformed.

Operator response

None.

System programmer response

Make sure that the transform filter specified in the printer definition for the printer is correct. If the output format in this message is not correct, and you specify the **aoprxf.so** filter in the printer definition, specify the **-xf output-format** attribute. For example, to transform an AFP document (MO:DCA-P) to PDF format, specify in the **Filter** field:

```
aoprxf.so -xf output-format=pdf
```

User response

If you specified the **remotexf** command:

- Make sure that Infoprint Transform Manager for Linux provides a transform for data format of your document.
- If the input format in the message is not correct, specify the **document-format** job attribute.
- If the output format in the message is not correct, specify the **output-format** transform attribute. For example, to transform an AFP document (MO:DCA-P) to PDF format, specify on one line:

```
remotexf -j "-xf 'output-format=pdf'"
-o  myfile.pdf myfile.afp
```

- If you did not specify the **remotexf** command, notify the system programmer that this error occurred

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3001E **IP PrintWay could not load the *exit-type* user exit *exit-name*. The load return code is *retcode*, and the reason code is *reasoncode*.**

Explanation

IP PrintWay extended mode cannot load the user exit.

In the message text:

exit-type
> The exit type. For example: BDS (Begin Data Set exit), EDS (End Data Set exit), Record (Record exit), SMF, Routing.

exit-name
> The exit name. If the exit type is BDS, EDS, or Record, this name was specified in the printer definition for the printer.

retcode
> The return code from the LOAD macro.

reason-code
> The reason code from the LOAD macro.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer.

System programmer response

If the exit is a BDS, EDS, or Record exit, make sure that the name of the exit is correct. If the name is incorrect, use the Infoprint Server ISPF panels to correct it in the printer definition.

Make sure that these requirements are met:

- The data set that contains the exit is APF-authorized.
- If the data set that contains the exit is not in the system LNKLST, the data set is named in the STEPLIB environment variable and is defined to the z/OS STEPLIBLIST facility:
  - Each data set in the STEPLIB environment variable must be separated by a colon.
  - The STEPLIBLIST statement must be specified in the BPXPRMxx member of SYS1.PARMLIB. STEPLIBLIST names an HFS or z/OS file system (zFS) file that lists sanctioned step libraries.

- The HFS or zFS file that STEPLIBLIST names must contain the name of the data set that contains the exit. Each data set name must be on a separate line without quotation marks.
- The HFS or zFS file that STEPLIBLIST names must have execute permission for **other**. IBM suggests that UID 0 owns the file with permissions 755 or 555.

For more information about:

- BPXPRMxx member, see *z/OS MVS Initialization and Tuning Reference*
- STEPLIBLIST facility, see *z/OS UNIX System Services Planning*
- Setting environment variables, see *z/OS Infoprint Server Customization*
- Return and reason codes in the message, see *z/OS MVS System Codes*
- zFS file systems, see *z/OS File System Administration*

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3002E	User exit *exit-name* returned a record length of *length*, which is too large.

Explanation

The IP PrintWay extended mode user exit returned a record length in field XTPPRLEN that is greater than 32 KB bytes.

In the message text:

exit-name
    The name of the exit.
length
    The length of the record.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues. The job failed on this attempt.

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Correct the user exit.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3003I	*message-text*

Explanation

You see the message from the user exit.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3004E   **The value for XTPERLEN *(length)* is not valid. The record exit is *exit-name*.**

Explanation

The IP PrintWay extended mode exit returned a length in field XTPERLEN that is not valid.

In the message text:

length
    Is the value for XTPERLEN.

exit-name
    The user exit name.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues. The job failed on this attempt.

Operator response

Notify your system programmer.

System programmer response

Correct the user exit. See *z/OS Infoprint Server Customization* for information about how to code the Record exit.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3006I   **IP PrintWay accepted the request to hold the print job.**

Explanation

IP PrintWay extended mode accepted the request. The print job is held.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages

in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3008I	IP PrintWay accepted the request to release the print job.

Explanation

IP PrintWay extended mode accepted the request. The print job is released.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3009I	IP PrintWay accepted the request to move the print job to printer *printer-uri*.

Explanation

IP PrintWay extended mode accepted the request. The print job is moved to printer *printer-uri*.

In the message text, *printer-uri* is the printer to which the print job is moved. The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

    direct_sockets://*hostname:port*
        The host name and port number of the printer.

    lpr://*hostname/queue*
        The host name and print queue name of the printer.

    vtam://*luname*
        The VTAM logical unit (LU) name of the printer.

uri

The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3010I	IP PrintWay accepted the request to delete the print job.

Explanation

IP PrintWay extended mode accepted the request. The print job is deleted.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3011I	IP PrintWay accepted the request to start the printer.

Explanation

IP PrintWay extended mode accepted the request. The printer is started.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3012I	IP PrintWay accepted the request to stop the printer.

Explanation

IP PrintWay extended mode accepted the request. The printer is stopped.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3013I	IP PrintWay accepted the request to redirect this printer to printer *printer-uri*.

Explanation

IP PrintWay extended mode accepted the request. The printer is redirected to *printer-uri*.

In the message text, *printer-uri* is the printer to which the print job was redirected. The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

    direct_sockets://*hostname:port*
        The host name and port number of the printer.

    lpr://*hostname/queue*
        The host name and print queue name of the printer.

    vtam://*luname*
        The VTAM logical unit (LU) name of the printer.

    uri
        The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3014I	IP PrintWay rejected the request to hold the print job.

Explanation

IP PrintWay extended mode rejected the request. The print job is not held. The possible reasons are that the print job is ready to be deleted, is already deleted, or another program acquired the document.

The **aoplogu** command provides more information in fields before the message text. For information about

the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

If the document is still on the spool and is not acquired by another program, resubmit the hold request.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3016I	IP PrintWay rejected the request to release the print job.

Explanation

IP PrintWay extended mode rejected the request. The print job is not released. The possible reasons are that the print job is processing, ready to be deleted, already deleted, or another program acquired the document.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

If the document is still on the spool and is not acquired by another program, resubmit the release request.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3017I   **IP PrintWay rejected the request to move the print job to printer *printer-uri*.**

Explanation

IP PrintWay extended mode rejected the request. The possible reasons are that the print job was rejected, ready to be deleted, or already deleted. If the print job was rejected, you cannot move it.

In the message text, *printer-uri* is the printer where the print job was requested to be moved. The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

    direct_sockets://*hostname*:*port*
        The host name and port number of the printer.

lpr://*hostname*/*queue*
    The host name and print queue name of the printer.

vtam://*luname*
    The VTAM logical unit (LU) name of the printer.

uri
    The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

If the print job was rejected because it was sent to a printer that is not defined in the Printer Inventory (see message AOP3208E), the administrator can create a printer definition and release the print job, or the user can delete the print job and then resubmit it with a correct printer definition.

If the print job was rejected because no PRTQUEUE or PORTNO parameter was specified (see message AOP3203E), delete the print job and resubmit it.

If the print job was rejected because the DEST, CLASS, or FORMS JCL parameters do not match the printer definition (see message AOP3201E), you can change these parameters to match the printer definition and release the print job.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3018I　　　**IP PrintWay rejected the request to delete the print job.**

Explanation

IP PrintWay extended mode rejected the request. The possible reason is the print job was already deleted.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3019I　　　**IP PrintWay rejected the request to start the printer.**

Explanation

IP PrintWay extended mode rejected the request. The printer is not started.

IP PrintWay extended mode has no record that this printer exists. This can happen if someone started the printer and it finished processing all print jobs, and no printer definition exists for the printer in the Printer Inventory.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

If you want to start this printer, ask your administrator to create a printer definition for the printer.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

AOP3020I   **IP PrintWay rejected the request to stop the printer.**

Explanation

IP PrintWay extended mode rejected the request. The printer is not stopped.

IP PrintWay no longer has a record of the printer. This can happen when a print job finishes and no printer definition exists for the printer in the Printer Inventory.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

If you want to stop this printer, ask your administrator to create a printer definition for the printer.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3021I   **IP PrintWay rejected the request to redirect this printer to printer *printer-uri*.**

Explanation

IP PrintWay extended mode rejected the request. Another printer or printers might already be redirected to this printer, the printer might be redirected to itself, the alternative printer to which you want to redirect this printer might be redirected to another printer, or IP PrintWay might not have a record for the printer.

In the message text, *printer-uri* is the printer where this printer was requested to be redirected. The *printer-uri* has this format:

printer-uri
> An identifier of the printer, in one of these formats:

> **direct_sockets://*hostname:port***
>> The host name and port number of the printer.

> **lpr://*hostname/queue***
>> The host name and print queue name of the printer.

> **vtam://*luname***
>> The VTAM logical unit (LU) name of the printer.

> *uri*
>> The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

>> ```
>> ipp://myprinter.xyz.com
>> http://myprinter.xyz.com:631
>> ```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

Make sure that you are not trying to redirect a printer to itself. If another printer or printers are already redirected to this printer, restore those printers first. If the alternative printer is redirected to another printer, restore that printer first. If none of these situations exist, refresh the Infoprint Central panel to see whether a record of the printer exists. If no record exists, ask your administrator to create a printer definition for the printer in the Printer Inventory so you can use the redirect action.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3024I   **IP PrintWay accepted the restore request to stop redirecting this printer to printer *printer-uri*.**

Explanation

IP PrintWay extended mode accepted the restore request. Print jobs that are submitted to this printer are no longer redirected to the alternative printer. Also, print jobs that were submitted to this printer and redirected to the alternative printer but not yet printed are moved back to this printer. For example, jobs submitted to printer "A" that were moved to printer "B" because "A" was redirected are moved back to printer "A".

In the message text, *printer-uri* is the alternative printer to which the printer was redirected. The *printer-uri* has this format:

printer-uri
An identifier of the printer, in one of these formats:

direct_sockets://*hostname*:*port*
The host name and port number of the printer.

lpr://*hostname*/*queue*
The host name and print queue name of the printer.

vtam://*luname*
The VTAM logical unit (LU) name of the printer.

uri
The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3025I   **IP PrintWay rejected the restore request to stop redirecting this printer to printer *printer-uri*.**

Explanation

IP PrintWay extended mode rejected the restore request. This printer is still redirected to the alternative printer.

IP PrintWay has no record that this printer exists. This can happen if someone restored the printer and it finished processing all print jobs, and no printer definition exists for the printer in the Printer Inventory.

In the message text, *printer-uri* is the alternative printer where the printer was redirected. The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

direct_sockets://*hostname*:*port*
    The host name and port number of the printer.

lpr://*hostname*/*queue*
    The host name and print queue name of the printer.

vtam://*luname*
    The VTAM logical unit (LU) name of the printer.

uri
    The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3200I	IP PrintWay started the job selection rule.

Explanation

The job selection rule was started by IP PrintWay extended mode.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3201E	The DEST, CLASS, and FORMS JCL keywords do not match a printer definition in the Printer Inventory.

Explanation

IP PrintWay extended mode cannot find a printer definition in the Printer Inventory that matches the DEST, CLASS, and FORMS JCL parameters for the print job. The job submitter might specify incorrect DEST, CLASS, and FORMS values on the OUTPUT JCL statement. Or the printer definition in the Printer Inventory might be missing or have incorrect values.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode rejected the print job and did not process it. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay extended mode does not attempt to process the print job again until the operator releases it.

Operator response

- Correct the DEST, CLASS, or FORMS values for the print job, if necessary, to match the same values in the printer definition for the printer. Then, release the print job for printing. Or, delete the print job from the JES spool and ask the job submitter to resubmit the job with correct JCL.

- If no printer definition exists for the printer, ask your administrator to create one. If a printer definition does exist with matching DEST, CLASS, and FORMS values, but the **Use DEST, CLASS, FORMS for IP PrintWay printer selection** field is not selected, ask your administrator to select this field.

System programmer response

Edit the printer definition, if necessary, to correct the DEST, CLASS, or FORMS values. Or, create a new printer definition with DEST, CLASS, and FORMS values that match the values that are specified in the JCL parameters. Make sure the **Use DEST, CLASS, FORMS for IP PrintWay printer selection** field in the printer definition is selected.

User response

If you specified incorrect DEST, CLASS, and FORMS values on the OUTPUT JCL statement for the print job, correct the JCL for the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3202W	The PORTNO and PRTQUEUE JCL keywords were both specified. IP PrintWay uses the PORTNO value.

Explanation

IP PrintWay extended mode uses the PORTNO value when both PORTNO and PRTQUEUE parameters are used on the OUTPUT JCL statement.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues with the PORTNO value.

Operator response

None.

System programmer response

None.

User response

Change your JCL to specify either the PORTNO or PRTQUEUE JCL parameters, but not both.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3203E	**The DEST=IP JCL keyword was specified, but neither the PRTQUEUE nor PORTNO JCL keywords were specified.**

Explanation

The DEST=IP: parameter was specified on the OUTPUT JCL statement for the data set. When the DEST=IP: parameter is specified, either the PRTQUEUE or PORTNO parameter is also required. However, neither parameter was specified.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode rejected the print job and did not process it. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay extended mode does not attempt to process the print job again until the operator releases it.

Operator response

None.

System programmer response

None.

User response

Delete the print job, submit the data set again, and specify either the PRTQUEUE or PORTNO parameter.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3204I	**IP PrintWay accepted the document from JES.**

Explanation

IP PrintWay extended mode verified that the printer definition that the print job requested is in the Printer Inventory, and it accepted the document from JES for processing. IP PrintWay added the print job to the printer's queue.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay processes the print job in the order that the print job was added to the printer's queue.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3205E   **The SAPI PUT/GET request returned return code *retcode* and reason code *reason-code*.**

Explanation

IP PrintWay extended mode received a nonzero return code from Sysout Application Programming Interface (SAPI).

In the message text:

retcode
    The return code.

reason-code
    The reason the request was returned.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

Check the return code and reason code for the appropriate action (see *z/OS MVS Using the Subsystem Interface*).

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3206I   **IP PrintWay stopped the job selection rule.**

Explanation

IP PrintWay stopped using the job selection rule to select print jobs from the JES spool because the administrator deleted the job selection rule from the Printer Inventory, the operator stopped the job selection rule, or the operator stopped IP PrintWay extended mode.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues. If the operator stopped IP PrintWay extended mode, IP PrintWay automatically

uses the job selection rule again when IP PrintWay is restarted.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3207E	**SAPI returned return code *retcode*.**

Explanation

IP PrintWay extended mode received a nonzero return code from Sysout Application Programming Interface (SAPI). No reason code is available for this type of return code from SAPI.

In the message text, *retcode* is the return code.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

Check the return code for the appropriate action (see *z/OS MVS Using the Subsystem Interface*).

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3208E	**The FSSDATA JCL keyword specified a printer definition, *printer-definition*, that is not defined in the Printer Inventory.**

Explanation

The printer definition that is listed is not in the Printer Inventory.

In the message text, *printer-definition* is the specified printer definition.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode rejected the print job. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay extended mode does

not attempt to process the print job again until the operator releases it.

Operator response

Tell the job submitter that this error occurred. Delete the print job from the JES spool if the job submitter resubmits it. Or release the print job after the administrator creates the printer definition.

System programmer response

Create a printer definition in the Infoprint Server Printer Inventory if requested.

User response

If the name of the printer definition is incorrect, correct the name in the FSSDATA parameter on the OUTPUT JCL statement and rerun the job. Or, ask your administrator to create a printer definition with this name and then ask the operator to release the print job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3209I	The IP PrintWay job selection rule definition was changed in the Printer Inventory.

Explanation

The administrator changed the job selection rule definition in the Printer Inventory. IP PrintWay extended mode uses the changed rule.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3210I	The IP PrintWay job selection rule manager started.

Explanation

The IP PrintWay extended mode job selection rule manager is active.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3212E	IP PrintWay stopped using the job selection rule due to a terminating error.

Explanation

The job selection rule is no longer active. Check for additional messages to determine the problem.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

Fix the error and restart the job selection rule. To restart the job selection rule, do one of these:

- Use Infoprint Central to stop the job selection rule. Then, use Infoprint Central to start the job selection rule.
- Use the ISPF panels to change any attribute in the job selection rule.
- Use the **pidu** command to change any attribute in the job selection rule.
- Run the JCL shutdown procedure. Then, run the JCL startup procedure.

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3213I	No record exists in the Printer Inventory for the print job to be processed.

Explanation

The print job does not exist in the Printer Inventory and cannot be processed. This situation might indicate that a logic error exists in IP PrintWay extended mode.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages

in the Infoprint Server common message log" on page [124](#).

System action

Processing ends for this print job.

Operator response

None.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

If the job still exists on the JES spool, use Infoprint Central to release the print job. IP PrintWay extended mode attempts to print the print job. If the problem occurs again, notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3215E	**The requested printer definition, *printer-definition*, is not an IP PrintWay printer definition. The printer type is *printer-type*.**

Explanation

The printer definition in the Printer Inventory is not an IP PrintWay definition.

In the message text:

printer-definition
>   The name of the printer definition that IP PrintWay extended mode selected to print the print job. The job submitter might specify this printer definition by name or might specify the DEST, CLASS, and FORMS JCL values associated with the printer definition.

printer-type
>   The type of the printer: PSF-MVS, GENERAL, or UNKNOWN.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page [124](#).

System action

IP PrintWay extended mode rejected the print job and did not process it. The print job remains on the JES spool with a status of "rejected" so that IP PrintWay extended mode does not attempt to process the print job again until the operator releases it.

Operator response

Tell the user that this error occurred.

- If the user specified the incorrect printer definition name on the OUTPUT JCL statement, delete the print job and ask the job submitter to rerun the job.
- If the user specified incorrect DEST, CLASS, and FORMS values on the OUTPUT JCL statement, change the DEST, CLASS, and FORMS values and release the print job.
- If the type of printer definition is incorrect, ask your administrator to correct the printer definition and then release the print job.

System programmer response

Inspect the DEST, CLASS, and FORMS values of the output data set to determine which printer definition IP PrintWay extended mode selected to print the data set.

If the DEST, CLASS, and FORMS values on the JCL are incorrect and caused IP PrintWay extended mode to select the wrong printer definition, change the DEST, CLASS, and FORMS values of the output data set.

User response

Correct the OUTPUT JCL statement. Either specify the correct printer definition name in the FSSDATA parameter, or specify the correct values in the DEST, CLASS, and FORMS parameters. Then, resubmit the

print job. Or ask your administrator to change the type of the printer definition to IP PrintWay.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3216E	No document was found on the JES spool for the print job. In a sysplex, the document might have been deleted after it was processed on another system.

Explanation

IP PrintWay extended mode was processing a document that exists in Infoprint Server but no longer is on the JES spool. The job might be deleted from the spool.

If IP PrintWay extended mode is running on another system in a sysplex, IP PrintWay might delete the print job after it was processed on the other system.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing of this print job ends.

Operator response

Check the message log for the print job to determine what caused the problem. In a sysplex, also look at the messages for the print job on the other systems where IP PrintWay extended mode is running.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3217E	IP PrintWay could not obtain the SWB from JES because the SJFREQ macro failed. The data set name is *datasetname*. The return code is 0x*returncode*. The reason code is 0x*reasoncode*.

Explanation

IP PrintWay extended mode requested that JES return the Scheduler Work Block (SWB) associated with the data set, but an error occurred when JES started the SJFREQ macro. The SWB contains information about the data set, such as information that the job submitter specified in an OUTPUT JCL statement.

In the message text:

- *datasetname* is the name of the data set
- *returncode* is the SWB processing return code (field SSS2WRTN)
- *reasoncode* is the SWB processing reason code (field SSS2WRSN)

System action

IP PrintWay extended mode returns the print job to JES and does not attempt to process the print job again unless the operator releases it.

Operator response

Notify your system programmer that this error occurred. After the problem is corrected, delete or release the print job.

System programmer response

The SWB processing reason code (field SSS2WRSN) identifies the SJF service that JES started with the SFJREQ macro and contains the return code and reason code from that service. For information about the return code and reason code from the SJFREQ macro for each SJF service, see *z/OS MVS Programming: Authorized Assembler Services Reference SET-WTO*.

If you use JES exits to assign default values to data sets or to override values that a user specifies in an OUTPUT JCL statement, make sure that the values assigned by the JES exits are correct.

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

If necessary, resubmit the print job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3218I	Load of module ANFFHC failed. The return code is *return-code*. The reason code is *reason-code*.

Explanation

Check (IBMINFOPRINT, INFOPRINT_PRINTWAY_MODE) was unable to determine which mode of IP PrintWay is running because the load of module ANFFHC failed.

In the message text:

- *return-code* is the hexadecimal return code from the LOAD macro.
- *reason-code* is the hexadecimal reason code from the LOAD macro.

System action

Processing continues.

Operator response

Notify the system programmer that this error occurred.

System programmer response

Check that module ANFFHC is in SYS1.LINKLIB. If not, apply the PTF for APAR OA26577. For information about the LOAD return code and reason code, see *z/OS MVS System Codes*. If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

AOPWSMD

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3219I	Call of module ANFFHC failed. The return code is *return-code*.

Explanation

Check (IBMINFOPRINT, INFOPRINT_PRINTWAY_MODE) was unable to determine which mode of IP PrintWay is running because the call to module ANFFHC failed

In the message text, *return-code* is the hexadecimal return code from the call to ANFFHC. 0 indicates that ANFFHC did not return a code.

System action

Processing continues.

Operator response

Notify the system programmer that this error occurred.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

AOPWSMD

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3220I   **The document cannot be printed because it has been removed from the print job.**

Explanation

IP PrintWay extended mode processed a document, but that document is no longer on the JES spool. IP PrintWay extended mode cannot send the document

to the printer. The operator might delete the document from the JES spool after IP PrintWay extended mode processed it but before it was sent to the printer.

System action

Processing continues. IP PrintWay extended mode sends other documents in the print job to the printer.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3401I   **IP PrintWay deleted the document from the JES spool.**

Explanation

IP PrintWay extended mode deleted the document after it finished processing the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3402I	IP PrintWay added the print job to the printer's queue.

Explanation

The print job was added to the printer's queue.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3403I	IP PrintWay removed the print job from the printer's queue.

Explanation

IP PrintWay extended mode removed the print job from the printer's queue. See other messages for the reason the print job was removed.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3406I	IP PrintWay deleted the print job and did not retain it on the JES spool.

Explanation

The print job was deleted from the JES spool.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3407I	IP PrintWay held the print job on the printer's queue.

Explanation

IP PrintWay extended mode held the print job because the operator requested that the print job be held.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3408I	IP PrintWay cannot hold the print job.

Explanation

IP PrintWay extended mode cannot hold the print job on the JES spool. The print job might complete before IP PrintWay extended mode can hold it, or another program acquires the data set.

If IP PrintWay extended mode is running on another system in a sysplex, IP PrintWay might be processing the print job on the other system. To hold a print job that IP PrintWay is processing, you must select the Hold action from the system where IP PrintWay is processing the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues. IP PrintWay does not hold the print job.

Operator response

If the print job is still on the JES spool, select the Hold action again. In a sysplex, select the Hold action from the system where IP PrintWay is processing the print job.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3409I	IP PrintWay reordered the print job on the printer's queue because the priority of the print job changed.

Explanation

The print job was reordered on the printer queue because the operator changed the priority.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3410I   **IP PrintWay stopped processing the print job on the printer.**

Explanation

IP PrintWay extended mode stopped processing the print job because the operator held or deleted the print job or the operator moved the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3411I   **IP PrintWay released the print job on the printer.**

Explanation

IP PrintWay extended mode released the print job because the operator did the release action. The print job is ready to print.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3413I   **IP PrintWay is retaining the print job on the JES spool for *retain-time* seconds until *retention-expiration-date*.**

Explanation

IP PrintWay extended mode retained the print job on the JES spool after completion because retention was requested in the printer definition or on the OUTPUT JCL statement.

In the message text:

retain-time
> The number of seconds that IP PrintWay extended mode retains the print job.

retention-expiration-date
> The date and time when the retention time expires.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode deletes the print job from the JES spool when the retention time expires.

Operator response

If the print job is retained on the JES spool, you can use Infoprint Central to:

- Release the print job to print on the same printer. Release the print job after you correct the problem with the document or printer.
- Move the print job to another printer and release it.
- Hold the print job if you do not want IP PrintWay to delete the print job when its retention time expires.
- Delete the print job.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3414I　　　**IP PrintWay is no longer retaining the job.**

Explanation

The print job is no longer retained on the JES spool. The operator might have held or deleted the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3415I **The print job is no longer retained because the retention period expired.**

Explanation

The print job is no longer retained on the JES spool because the retention period expired.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode deleted the print job from the JES spool. Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3416I **IP PrintWay will retain the print job until you delete it.**

Explanation

IP PrintWay extended mode retained the print job on the JES spool after it completed. IP PrintWay extended mode does not automatically delete the print job from the JES spool because the administrator or job submitter specified a retention period of FOREVER.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

Delete the print job from the JES spool when it is no longer needed.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3417I **IP PrintWay rejected the print job. The print job remains on the JES spool.**

Explanation

IP PrintWay extended mode cannot process the print job because of an error.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

The print job remains on the JES spool in the rejected state.

Operator response

See other messages for the print job to determine the error and the appropriate response. If the job submitter resubmits the print job, use Infoprint Central to delete the print job from the JES spool. Otherwise, release the print job after the problem is corrected.

System programmer response

None.

User response

See the other messages for the print job to determine the error and the appropriate response.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3418I **IP PrintWay cannot hold the document on the JES spool.**

Explanation

IP PrintWay extended mode cannot hold the document on the JES spool as requested. Another process might have selected the print job, or the print job was deleted.

If IP PrintWay extended mode is running on another system in a sysplex, IP PrintWay might be processing the print job on the other system. To hold a print job that IP PrintWay is processing, you must select the Hold action from the system where IP PrintWay is processing the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

Try to hold the print job again if it is still on the JES spool. In a sysplex, select the Hold action from the system where IP PrintWay is processing the print job.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3419I IP PrintWay held the document on the JES spool.

Explanation

IP PrintWay extended mode held the document on the JES spool as requested.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3420I IP PrintWay cannot delete the print job because another program is processing it. Delete the print job from the system where it is being processed, or try again later.

Explanation

IP PrintWay cannot delete the print job as requested because another program is processing the print job.

If IP PrintWay extended mode is running on more than one system in a sysplex, IP PrintWay might be processing the print job on the other system. To delete a print job that IP PrintWay is processing, you must select the Delete action from the system where IP PrintWay is processing the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

The print job is not deleted.

Operator response

If the print job is still on the JES spool, try selecting the Delete action again. In a sysplex, select the Delete action from the system where IP PrintWay is processing the print job.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

**AOP3500I   IP PrintWay deleted the printer
                  from the Printer Inventory.**

Explanation

IP PrintWay extended mode deleted an internal record
for this printer in the Printer Inventory. Typically this
occurs because no printer definition exists for the
printer and the print job that was printing on the
printer finished processing. As a result, Infoprint
Central can no longer find this printer and display
information about it. IP PrintWay extended mode
keeps an internal record for a printer only if a printer
definition exists for the printer, a print job is processing
on the printer, the printer is stopped, the printer is
redirected to another printer, or another printer is
redirected to it.

The **aoplogu** command provides more information in
fields before the message text. For information about
the contents of these fields, see "Format of messages
in the Infoprint Server common message log" on page
124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

**AOP3501I   IP PrintWay created the printer in
                  the Printer Inventory.**

Explanation

IP PrintWay extended mode created an internal record
for this printer in the Printer Inventory. Typically this
occurs because the administrator created a printer
definition for the printer or a print job started printing
on the printer. As a result, Infoprint Central is able to
find this printer and display information about it. IP
PrintWay extended mode keeps an internal record for
a printer only if a printer definition exists for the
printer, a print job is processing on the printer, the
printer is stopped, the printer is redirected to another
printer, or another printer is redirected to it.

The **aoplogu** command provides more information in
fields before the message text. For information about
the contents of these fields, see "Format of messages
in the Infoprint Server common message log" on page
124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3502I   **The administrator added printer definition** *printer-definition* **for this printer.**

Explanation

The administrator created a printer definition in the Printer Inventory for this printer.

In the message text, *printer-definition* is the definition for the added printer.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3503I   **Printer definition** *printer-definition* **is no longer a printer definition for this printer.**

Explanation

The administrator deleted or modified the printer definition. For example, the administrator might have changed the host name.

In the message text, *printer-definition* is the deleted or modified printer definition.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3504I   **IP PrintWay started the printer as requested by** *user_ID*.

Explanation

IP PrintWay extended mode started the printer.

In the message text:

user_ID
    The user who requested the action.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3505I	IP PrintWay stopped the printer as requested by *user_ID*.

Explanation

IP PrintWay extended mode stopped the printer as requested.

In the message text:

user_ID
    The user who requested the action.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3506I	The printer was already started.

Explanation

The operator selected the Start action to start the printer, but the printer is already started.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3507I	The printer was already stopped.

Explanation

The operator selected the Stop action to stop the printer, but the printer is already stopped.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3508I	IP PrintWay redirected this printer to printer *printer-uri*.

Explanation

IP PrintWay extended mode redirected the printer to an alternative printer because the operator selected the Redirect action. IP PrintWay extended mode moved all print jobs on the printer's queue, except for the currently processing print job, to the queue of the alternative printer. IP PrintWay extended mode will redirect all print jobs that are submitted to this printer to the alternative printer until the operator selects the Restore action.

In the message text, *printer-uri* is the printer to which the print jobs were redirected. The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

    direct_sockets://*hostname*:*port*
        The host name and port number of the printer.

    lpr://*hostname*/*queue*
        The host name and print queue name of the printer.

    vtam://*luname*
        The VTAM logical unit (LU) name of the printer.

    uri
        The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

When this printer is fixed, select the Restore action on Infoprint Central to restore printing on this printer.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3509I   **IP PrintWay redirected printer** *printer-uri* **to this printer.**

Explanation

IP PrintWay extended mode redirected another printer to this printer because the operator selected the Redirect action. IP PrintWay extended mode moved all print jobs on the other printer's queue, except for the currently processing print job, to the queue of this printer.

In the message text, *printer-uri* is the printer from which the print jobs were redirected. The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

    direct_sockets://*hostname***:***port*
        The host name and port number of the printer.

lpr://*hostname*/*queue*
    The host name and print queue name of the printer.

vtam://*luname*
    The VTAM logical unit (LU) name of the printer.

uri
    The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

When the other printer is fixed, select the Restore action on Infoprint Central to restore printing on the other printer.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3510I   IP PrintWay restored this printer. Print jobs are no longer redirected to printer *printer-uri*.

Explanation

IP PrintWay extended mode removed the redirection that was in effect for this printer because the operator selected the Restore action. IP PrintWay extended mode moved all print jobs that were originally submitted to this printer, except for the currently printing job, back to this printer's queue.

In the message text, *printer-uri* is the name of the printer to which print jobs are redirected. The *printer-uri* has this format:

printer-uri
> An identifier of the printer, in one of these formats:

> **direct_sockets://***hostname***:***port***
>> The host name and port number of the printer.

> **lpr://***hostname***/***queue***
>> The host name and print queue name of the printer.

> **vtam://***luname***
>> The VTAM logical unit (LU) name of the printer.

> *uri*
>> The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3511I   IP PrintWay restored printer *printer-uri*. Its print jobs are no longer redirected to this printer.

Explanation

IP PrintWay extended mode removed the redirection that was in effect for another printer because the operator selected the Restore action. IP PrintWay extended mode moved all print jobs that were originally submitted to the other printer, except for the currently printing job, from this printer's queue back to the other printer's queue.

In the message text, *printer-uri* is the other printer that was restored. The *printer-uri* has this format:

printer-uri
> An identifier of the printer, in one of these formats:

> **direct_sockets://***hostname***:***port***
>> The host name and port number of the printer.

> **lpr://***hostname***/***queue***
>> The host name and print queue name of the printer.

> **vtam://***luname***
>> The VTAM logical unit (LU) name of the printer.

> *uri*
>> The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3600E	**IP PrintWay cannot load FCB** *forms-control-buffer*, **return code is** *return-code*, **reason code is** *reason-code*.

Explanation

IP PrintWay extended mode cannot load the forms control buffer (FCB) that is required to format the document. Some possible reasons for this error are:

- The FCB name is incorrect on the OUTPUT JCL statement or in the printer definition.
- The SYS1.IMAGELIB data set is not in the system LNKLST and is not a sanctioned step library.
- The SYS1.IMAGELIB data set is not APF-authorized.

In the message text:

forms-control-buffer
> The name of the forms control buffer (FCB). The FCB was specified on the OUTPUT JCL statement or in the printer definition.

return-code
> The hexadecimal return code from the LOAD macro.

reason-code
> The hexadecimal reason code from the LOAD macro.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

The document was not printed. IP PrintWay extended mode retains the failed print job on the JES spool if retention is requested in the printer definition.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Check these items:

- The name of the FCB is specified correctly on the OUTPUT JCL statement or in the printer definition.
- SYS1.IMAGELIB is in the system LNKLST or is a sanctioned step library. Specify SYS1.IMAGELIB in the STEPLIB environment variable and also in the STEPLIBLIST sanction list in the BPXPRM*xx* PARMLIB member.
- SYS1.IMAGELIB is APF-authorized.

For information about:

- Return and reason codes in the message text, see *z/OS MVS System Codes*.
- The STEPLIB environment variable and how to specify it, see *z/OS Infoprint Server Customization*.
- The STEPLIBLIST facility, see *z/OS UNIX System Services Planning*.
- How to AFP-authorize SYS1.IMAGELIB, see *z/OS Infoprint Server Customization*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3601I	The carriage control *character* is not defined. The line will be printed with a single carriage return and with line feed.

Explanation

IP PrintWay extended mode detected a carriage control value that is not supported. The line is printed with a carriage return and a line feed. IP PrintWay extended mode cannot determine what formatting is required.

In the message text, *character* is the unsupported carriage control character.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

Modify the carriage control value and resubmit the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3602I	The end of the document contains an incomplete transparent data record.

Explanation

IP PrintWay extended mode detected end of file before the end of a transparent data segment. Either there was an I/O error, or the length that is specified in the transparent data is incorrect.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

Determine the cause of the I/O error if an I/O error is indicated.

User response

Modify either the transparent data or the length of transparent data and resubmit the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3603E　　　**The document contains an incorrect transparent data record.**

Explanation

IP PrintWay extended mode detected an error in a transparent data record.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

The print request was not completed

Operator response

Not applicable.

System programmer response

None.

User response

Correct the transparent data record, and resubmit the print request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3604E　　　**The document contains an incorrect transparent data length.**

Explanation

A transparent data record contains a length that is less than 0 or greater than 255.

System action

The print request was not completed

Operator response

Not applicable.

System programmer response

None.

User response

Correct the transparent data record, and resubmit the print request.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3605E   The iconv utility did not open. The document code page is *document-code-page*. The printer code page is *printer-code-page*.

Explanation

The iconv utility did not open. Typically this error means that either the document code page or the printer code page that is specified in the printer definition is incorrect.

In the message text:

document-code-page
    The name of the document code page.

printer-code-page
    The name of the printer code page.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode retains the print job on the JES spool if retention was requested in the printer definition.

Operator response

Notify your administrator that this error occurred. After the administrator corrects the code pages in the printer definition, use Infoprint Central to release the print job if it is retained on the JES spool. If the print job is not retained on the JES spool, ask the job submitter to resubmit the job.

System programmer response

Make sure that the code page names are valid for your level of z/OS. For valid names, see *z/OS XL C/C++ Programming Guide*, sections "Code Set Converters Supplied" and "Universal Coded Character Set Converters". Use the Infoprint Server ISPF panels to correct the code page names in the **Document code page** or **Printer code page** fields in the printer definition in the Printer Inventory.

User response

Resubmit the print job, if necessary, after the administrator corrects the code pages in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3606E   The iconv utility did not complete the conversion. The return code is *return-code*.

Explanation

The iconv utility did not finish converting the data stream between EBCDIC and ASCII representation. In the message text, *return-code* is the return code.

System action

The print request was not completed.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3607E	The Printer Inventory does not contain an entry for the component name specified in the PRTOPTNS JCL parameter or in the routing exit. The entry name is *component-name*.

Explanation

No component was found in the Infoprint Server Printer Inventory with the requested component name. A Processing, IP PrintWay Options, or Protocol component with the requested name must exist in the Printer Inventory.

In the message text, *component-name* is the name of the component that was requested either in the PRTOPTNS JCL parameter of the OUTPUT statement or in the IP PrintWay Routing exit.

System action

The job is failed on this attempt.

Operator response

Notify your system programmer that this error occurred. After the administrator adds the missing components in the Printer Inventory or corrects the routing exit, use Infoprint Central to release the print job if it is retained on the JES spool. If the print job is not retained on the JES spool, ask the job submitter to resubmit the job.

System programmer response

Make sure the component name that is specified in the IP PrintWay Routing exit is correct. If the component name is correct, create a Processing, IP PrintWay Options, or Protocol component with that name in the Infoprint Server Printer Inventory. For information about how to create components for use with the PRTOPTNS JCL parameter, see *z/OS Infoprint Server Operation and Administration*.

User response

Make sure the component name that is specified in the PRTOPTNS JCL parameter is correct. After you correct it, resubmit the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3608E	IP PrintWay could not write an SMF record for the document because the __smf_record function failed with return code *return-code* and errno *errno*.

Explanation

The SMF type 6 record is not recorded. This error can occur when Infoprint Server does not have RACF authorization to write SMF records.

In the message text:

return-code
   The return code.
errno
   The error number.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode does not write an SMF type 6 record.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Look up the return code and errno in *z/OS UNIX System Services Messages and Codes* to determine the problem. Also, make sure that the AOPOPER group (or the group your installation defined for Infoprint Server operators) has READ access to the BPX.SMF profile in the RACF FACILITY class. For more information, see *z/OS Infoprint Server Customization*. If you do not want SMF type 6 records to be recorded, specify the **smf-recording=no** attribute in the system configuration definition.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3609I	IP PrintWay has started to process the print job.

Explanation

The print job is processing.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3610E	The print job will not be processed because it is not in the pending state.

Explanation

The print job must be in the Pending state for the print job to print.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode does not process the print job.

Operator response

None.

System programmer response

The print job was possibly held or finished processing. Look at other messages for the print job to determine why the print job is not in the Pending state.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3611E　　　**The print job will not be processed because the target printer is *printer-uri1* but the print job is on printer *printer-uri2*.**

Explanation

The print job is in the current printer queue and is ready to print but the job was moved to another printer. The job is printing or scheduled to print on the other printer and cannot be printed on this printer.

In the message text:

printer-uri1
    The printer where the print job is now to be printed.

printer-uri2
    The printer where the print job was originally scheduled to print.

The *printer-uri* has this format:

printer-uri
    An identifier of the printer, in one of these formats:

    direct_sockets://*hostname*:*port*
        The host name and port number of the printer.

    lpr://*hostname*/*queue*
        The host name and print queue name of the printer.

    vtam://*luname*
        The VTAM logical unit (LU) name of the printer.

uri
    The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

    ```
    ipp://myprinter.xyz.com
    http://myprinter.xyz.com:631
    ```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing stops.

Operator response

The job must be moved if the current queued printer is incorrect and must print on the new target printer.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3612I　　　**IP PrintWay has started to process the document.**

Explanation

IP PrintWay extended mode started to process the document.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3613I	The print job was completed successfully.

Explanation

All pages in the print job were successfully sent to the printer. If you also receive message AOP3852I, the printer reported that all pages in the print job finished printing.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3614I	The print job was completed but contained errors.

Explanation

IP PrintWay extended mode completed processing the print job but an error prevented one or more documents in the print job from printing.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

Look at the other messages for the print job to determine the error and response. If the print job was retained on the JES spool, try to correct the error and then use Infoprint Central to release the print job. If the print job was not retained, or if you cannot correct the error, ask the job submitter to resubmit the job.

System programmer response

Look at the other messages for the print job to determine the error and response.

User response

Correct the error if possible and resubmit the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3615I	IP PrintWay will process the document when the retry interval ends.

Explanation

An error occurred that prevented the document from printing, and retransmission is requested for the print job.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode processes the print job again after the retry interval expires. When all the retransmissions are attempted, IP PrintWay extended mode retains the print job if retention for failed print jobs is requested for the print job. If no retention is requested, IP PrintWay extended mode deletes the print job.

Operator response

Look at the other messages for the print job to determine what error occurred. Fix the error if possible. After the error is fixed, you can use Infoprint Central to release the print job so that IP PrintWay extended mode processes it again immediately, before the retry interval expires. If you cannot fix the error, you can either delete the print job or hold the print job on the JES spool until you can fix the error.

For information about how many transmissions have been tried and the retry interval, use Infoprint Central to view properties of the print job. Retransmission information is in the Status section on the Infoprint Server Print Job Properties panel.

System programmer response

None.

User response

See the operator response.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3616I	The print job was moved to printer *new-printer-uri* from printer

original-printer-uri. **It is no longer
on this printer. The print job was
not processed.**

Explanation

The print job was moved from one printer to another.
IP PrintWay extended mode prints the print job on the
new printer instead of on the original printer.

In the message text:

new-printer-uri
> The printer to which the print job is moved.

original-printer-uri
> The printer from which the print job is moved.

The *printer-uri* has this format:

printer-uri
> An identifier of the printer, in one of these formats:
>
> **direct_sockets://*hostname:port***
>> The host name and port number of the printer.
>
> **lpr://*hostname/queue***
>> The host name and print queue name of the
>> printer.
>
> **vtam://*luname***
>> The VTAM logical unit (LU) name of the printer.
>
> *uri*
>> The Uniform Resource Identifier (URI) of the
>> Internet Printing Protocol (IPP) server that is
>> running in the printer. Examples are:
>>
>> ```
>> ipp://myprinter.xyz.com
>> http://myprinter.xyz.com:631
>> ```

The **aoplogu** command provides more information in
fields before the message text. For information about
the contents of these fields, see "Format of messages
in the Infoprint Server common message log" on page
124.

System action

Processing stops.

Operator response

To find the printer where the print job is to print or has
printed, select the printer image in the **Printer** column
on the Infoprint Server Print Jobs panel.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3617E	**The administrator made changes in the DNS, so the print job is no longer routed to this printer. The original printer was *original-printer-uri*. The new printer is *new-printer-uri*. The print job was not processed.**

Explanation

A change to the host name for the original printer in
the Domain Name Server occurred after the print job
was submitted. This change caused the print job to be
removed from the current printer. This print job does
not print on the original printer.

In the message text:

original-printer-uri
> The original printer in the DNS.

new-printer-uri
> The new printer in the DNS.

The *printer-uri* has this format:

printer-uri
> An identifier of the printer, in one of these formats:
>
> **direct_sockets://*hostname:port***
>> The host name and port number of the printer.
>
> **lpr://*hostname/queue***
>> The host name and print queue name of the
>> printer.
>
> **vtam://*luname***
>> The VTAM logical unit (LU) name of the printer.

uri

The Uniform Resource Identifier (URI) of the Internet Printing Protocol (IPP) server that is running in the printer. Examples are:

```
ipp://myprinter.xyz.com
http://myprinter.xyz.com:631
```

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode does not print the print job on the new printer. The current job fails on the current printer.

Operator response

Resubmit the print job.

System programmer response

None.

User response

Resubmit the print job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3618I   **The transform *transform-name* started.**

Explanation

IP PrintWay extended mode started a data stream transform to convert the data stream from one format to another.

In the message text, *transform-name* is the transform that was started. This transform is specified in the printer definition.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3621I   ***job* is printed on backup printer *printer_definition***

Explanation

The print job that is specified in the message is moved to the backup IP PrintWay printer.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3622W	*job_id* cannot use backup printer *printer_definition* because it is not defined in the Printer Inventory.

Explanation

The backup printer definition name that is specified in the message does not exist in the Printer Inventory. Therefore, the specified print job is not moved to the backup printer.

System action

Processing continues as if no backup printer is specified.

Operator response

Ask the system programmer to define the backup printer definition name.

System programmer response

Define a printer definition in the Printer Inventory for the backup printer.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3800E	The LPR/LPD processing received a failure acknowledgement while it was processing the print job.

Explanation

The possible reason can be a connection failure or a disconnection.

System action

The job failed on this attempt.

Operator response

Check that the printer is turned on. Ping the printer to make sure that the network connection is working.

System programmer response

None.

User response

Notify the operator that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3801E **The LPR/LPD processing could not bind any local ports between 721 and 731 on host** *host-name* **for the print job.**

Explanation

The TCP/IP BIND call failed for the target address for the well-known port range 721 - 731.

In the message text, *host-name* is the name of the host.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

If the printer can accept print requests that are submitted from z/OS ports outside the port range 721 - 731, clear the **Restrict ports** field in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3802I *original-value* **was truncated to** *new-value* **for command** *command-code* **in the LPR control file for the print job.**

Explanation

The value is truncated because it is too long to fit in the LPR control file in the command file.

In the message text:

original-value
    The original value.

new-value
    The new, truncated value.

command-code
    The name of the command in the LPR control file.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3803E   **The LPR RECEIVE A PRINT JOB command did not work because a print queue that is not valid was specified, or the LPD accepts print jobs only on ports 721 to 731, or a connection failed.**

Explanation

IP PrintWay received an error when it sent the LPR RECEIVE A PRINT JOB command to the LPD. Some possible reasons for the error are:

- The print queue that is specified in the printer definition or in JCL is not correct.
- The network connection is not working.
- The LPD accepts print jobs only from ports in the well-known port ranges 721 - 731.
- IP PrintWay is sending the print job to InfoPrint Manager for AIX, but the InfoPrint Manager LPD is not authorized to receive print jobs from the z/OS host.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

None.

System programmer response

See the message log for the possible related error messages and correct the error based on the messages.

Check these items:

- Verify that the print queue name is correct. If the print queue name is not correct, edit the printer definition or the JCL to specify the correct queue name.
- Check that the printer is turned on.
- Ping the printer to make sure that the network connection is working.
- If the LPD requires that the z/OS port is in the range 721 - 731, select the **Restrict ports** LPR option in the printer definition.
- If the target host is InfoPrint Manager for AIX, make sure that the host name or IP address of the z/OS system is specified in file `etc/hosts.lpd` on the AIX system. You can use this AIX command to add the z/OS system to the `etc/hosts.lpd` file:

```
smit mkhostslpd nnn.nnn.nnn.nnn
```

where *nnn.nnn.nnn.nnn* is the host name or IP address of the z/OS system.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3804E   **The LPR/LPD processing did not work for the print job to the target host.**

Explanation

The final status indicator message for an LPR/LPD protocol job.

System action

The print job was not printed successfully.

Operator response

None.

System programmer response

None.

User response

Check the associated messages for the print job and printer to determine the cause.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3805I   **Queue name *queue1* overrides print queue name *queue2*.**

Explanation

The administrator specified an alternative queue name for the printer or print server in the **Queue name override** field in the printer definition. IP PrintWay sent the print job to line printer daemon (LPD) with the alternative queue name.

In the message text:

- *queue1* is the queue name to which IP PrintWay sent the print job. This queue name was specified in the **Queue name override** field in the printer definition.

- *queue2* is the print queue name for the printer. This queue name was specified in the **Print queue name** field of the printer definition, in the PRTQUEUE parameter of the OUTPUT JCL statement, or in the **print-queue-name** job attribute. Infoprint Central displays this queue name in the **Print queue name** field for the printer.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3850W   **IP PrintWay is waiting for a printer problem to be corrected. The printer reported this error: *message*.**

Explanation

The printer reported an error condition. For example, the printer might be out of paper or have a paper jam. IP PrintWay waits for the printer problem to be corrected before it sends data to the printer again.

In the message text, *message* contains the message that the printer returned. Typically, the message contains the PJL status code and an explanation of the code. For information about status codes, see *Printer Job Language Technical Reference Manual* that is published by Hewlett Packard.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode waits for a response from the printer for the time that is specified in the **Response timeout** field in the printer definition. When it receives a response, it resumes sending data to the printer and no duplicate pages are printed.

If the response timeout value specified in the printer definition expires before the printer responds, IP PrintWay tries the print job again (if retransmissions are requested) and duplicate pages might be printed.

Operator response

Look at the error message from the printer and fix the printer problem. Restart the print job from the printer console if the printer does not start printing.

If you cannot fix the printer problem, cancel the print job from the printer console. After the printer problem is corrected, start the print job from Infoprint Central if the print job was retained on the JES spool, or ask the job submitter to resubmit the print job.

System programmer response

If the response timeout interval expires before the operator can fix the printer problem, consider specifying a higher value in the **Response timeout** field in the printer definition. A high response timeout value (for example, 3 days) can prevent duplicate pages from being printed.

User response

After the printer problem is corrected, resubmit the print job if necessary.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3851E   **The print job was canceled at the printer. The printer reported this message:** *message.*

Explanation

IP PrintWay extended mode stopped printing the print job because someone canceled the print job from the printer console.

In the message text, *message* contains the message that the printer returned. Typically, the message contains the PJL status code and an explanation of the code. For information about status codes, see *Printer Job Language Technical Reference Manual* that is published by Hewlett Packard.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay does not try the print job again. It retains the print job on the JES spool if retention is requested in the printer definition.

Operator response

If the print job was canceled because of an error and it is retained on the JES spool, you can start the print job again from Infoprint Central after the problem is corrected. The print job resumes printing from the last page that printed successfully, if requested in the printer definition. If the print job is not retained, ask the job submitter to resubmit the print job.

System programmer response

None.

User response

After the problem is corrected, resubmit the print job if necessary.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3852I *number* **pages in the print job printed successfully.**

Explanation

The number of pages in the print job that the printer reported printed successfully. If the print job was moved to another printer, some of these pages might be printed on the original printer.

In the message text, *number* is the total number of pages that the printer reported were printed. It includes pages in all documents in the print job and pages that were successfully printed in previous failed attempts.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

None.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3853I **The print job will start printing after page *number*.**

Explanation

The print job resumes printing in the middle of the print job because an error occurred or because someone canceled the print job at the printer console and the operator restarted the print job.

In the message text, *number* is the last page that printed successfully.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

None.

Operator response

None.

System programmer response

None.

User response

Look for duplicate pages near the page where the print job resumed printing. If you want IP PrintWay to resume printing at the beginning of the print job when an error occurs, ask your administrator to clear the **Restart printing after last successful page** field in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3854W   **The printer does not support the PJL USTATUS PAGE command.**

Explanation

IP PrintWay extended mode sent the Printer Job Language (PJL) USTATUS PAGE=ON command to the printer, but the printer did not set it. The printer might not support the PJL USTATUS PAGE command.

If an error occurs during printing, IP PrintWay extended mode cannot determine the number of pages that printed successfully. Therefore:

- The print job is restarted from the beginning of the print job instead of from the last page that printed.
- The SMF type 6 record does not contain the correct number of printed pages.

However, if no error occurs, IP PrintWay can determine how many pages printed successfully.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing of the print job continues.

Operator response

Ask your administrator to contact the printer vendor.

System programmer response

Contact the printer vendor to correct the error.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3855W   **The printer does not support the PJL USTATUS DEVICE command.**

Explanation

IP PrintWay extended mode sent the Printer Job Language (PJL) USTATUS DEVICE=ON command to the printer, but the printer did not set it. The printer might not support the PJL USTATUS DEVICE command.

If an error occurs during printing, IP PrintWay extended mode cannot obtain information about the printer. Therefore:

- If the printer needs intervention, IP PrintWay does not write a message. It waits for the response timeout interval and tries the print job again.
- If someone cancels the print job from the console, IP PrintWay considers the print job to be successful.

The **aoplogu** command provides more information in fields before the message text. For information about

the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing of the print job continues.

Operator response

Ask your administrator to contact the printer vendor.

System programmer response

Contact the printer vendor to correct the error.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3856E	The printer does not support the PJL USTATUS JOB command.

Explanation

IP PrintWay extended mode sent the Printer Job Language (PJL) USTATUS JOB command to the printer, but the printer did not set it. The printer might not support the PJL USTATUS JOB command.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode tries the print job again. When all retransmissions are completed, IP PrintWay retains the print job on the JES spool if retention is requested.

Operator response

Ask your administrator to check that the printer supports the USTATUS JOB command. After the problem is corrected, the print job starts automatically when IP PrintWay tries the print job again. However, you can start the print job immediately from Infoprint Central. If IP PrintWay completed the print job and retained it on the JES spool, start the print job from Infoprint Central. If the print job is no longer on the JES spool, ask the job submitter to resubmit the print job.

System programmer response

If the printer does not support the PJL USTATUS JOB command, clear the **Record pages for accounting** and **Restart printing after last successful page** fields in the printer definition. These fields require that the printer support the PJL USTATUS JOB command.

User response

After the problem is corrected, restart the print job if necessary.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3857W	The printer does not return information after each page prints.

Explanation

The printer accepted the Printer Job Language (PJL) USTATUS PAGE command, but it did not produce a page-by-page report.

If an error occurs during printing, IP PrintWay extended mode cannot determine the number of pages that printed successfully. Therefore:

- The print job is restarted from the beginning of the print job instead of from the last page that printed.
- The SMF type 6 record does not contain the correct number of printed pages.

However, if no error occurs, IP PrintWay can determine how many pages printed successfully.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

Processing of the print job continues.

Operator response

Ask your administrator to contact the printer vendor.

System programmer response

Contact the printer vendor to correct the error.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3858E   **The printer requires intervention or does not support PJL.**

Explanation

IP PrintWay extended mode attempted to send a print job to the printer, but either the printer timed out or the response timeout value that is specified in the printer definition expired before IP PrintWay received a response from the printer. In most cases, the printer times out first because most printers have a timeout value of just a few minutes.

The problem might be one of these:

- The printer requires intervention. For example, the printer might be out of paper or have a paper jam.
- The printer does not support HP's Printer Job Language (PJL).

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

If retransmissions are requested, IP PrintWay extended mode waits for the retry time that is specified in the printer definition and tries the print job again. When all retransmissions are completed, IP PrintWay retains the print job on the JES spool if retention is requested.

Operator response

Check the printer. After you correct the printer problem, the print job starts automatically when IP PrintWay tries the print job again. However, you can start the print job immediately from Infoprint Central. If IP PrintWay completed the print job and retained it on the JES spool, start the print job from Infoprint Central. If the print job is no longer on the JES spool, ask the job submitter to resubmit the print job.

If the printer does not need intervention, ask your print administrator to check whether the printer supports PJL. After the printer definition is corrected, start the print job from Infoprint Central, or ask the job submitter to resubmit the print job.

System programmer response

Check the printer documentation to see whether the printer supports PJL. If it does not support PJL, clear the **Record pages for accounting** and **Restart printing**

after last successful page fields in the printer definition. These fields require that the printer support PJL.

If you want to give the operator more time to correct a printer problem before IP PrintWay completes processing the print job, consider specifying a higher retry time (for example, 30 minutes) in the printer definition. Or, you can try to set a higher print timeout value from the printer's web page. However, with most printers, you cannot specify a high timeout value.

User response

After the problem is corrected, resubmit the print job if necessary.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3859E	The document must not contain a PJL JOB command when an IP PrintWay PJL option is selected.

Explanation

The document to be printed contains a PJL JOB command, but a PJL JOB command is not allowed when you select an IP PrintWay PJL option in the printer definition. The AFP to PCL transform or another application, such as a printer driver, might have added the PJL JOB command.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay extended mode tries the print job again. When all retransmissions are completed, IP PrintWay retains the print job on the JES spool if retention is requested.

Operator response

Notify the system programmer that this error occurred. After the problem is corrected, restart the print job if necessary.

System programmer response

Do one or more of these:

- If the AFP to PCL transform created the document (filter `afpxpcl.dll` is specified in the printer definition), ask the administrator to set AOP_PJL->no in the Infoprint transform configuration (`aopxfd.conf`) so that the transform does not add a PJL JOB command. Then, restart the Infoprint Server Transform Manager to pick up the changes, and ask the job submitter to resubmit the print job. For information about the transform configuration file, see *IBM Print Transforms from AFP for Infoprint Server for z/OS*.

- Update the printer definition so that these IP PrintWay PJL options are not selected: **Record pages for accounting** and **Restart printing after last successful page**. Then, ask the operator to restart the print job with Infoprint Central. If the print job is no longer on the JES spool, ask the job submitter to resubmit the print job. For information about the PJL options, see *z/OS Infoprint Server Operation and Administration*.

- Update the application so that the PJL JOB command is not added in the original document. Then, ask the job submitter to resubmit the print job.

User response

Notify the system programmer that this error occurred. After the problem is corrected, resubmit the print job if necessary.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3900E **The protocol *protocol* is not supported.**

Explanation

IP PrintWay does not support the protocol that is listed.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

The job failed on this attempt.

Operator response

None.

System programmer response

Examine the printer definition to determine what protocol is configured in the Protocol section. Verify that the protocol is correct for IP PrintWay and that the printer definition is an IP PrintWay printer definition.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3901E **The AOXVTM module could not get storage.**

Explanation

An error occurred when IP PrintWay tried to send a data set to a VTAM controlled printer.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

This message indicates a possible logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3902E   **No pointer to the VTAM parameter list was supplied.**

Explanation

An error occurred when IP PrintWay tried to send a data set to a VTAM controlled printer.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

This message indicates a possible logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3903E   **An unknown error has occurred. The return code is 0x*code*. The reason code is 0x*code*.**

Explanation

An error occurred when IP PrintWay tried to send a data set to a VTAM controlled printer.

In the message text, *code* is the hexadecimal return code or reason code.

The problem might be one of these:

- The APPL ID that you specified to Infoprint Server is spelled incorrectly.
- The APPL ID is not defined in VTAM.
- Another application is using the same APPL ID.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Make sure that the APPL ID is spelled correctly, is defined to VTAM, and is not used by another application. The APPL ID is specified in the **applid** attribute in the system configuration definition. If you run IP PrintWay in a sysplex, also make sure that the APPL ID is unique for IP PrintWay on each system. For information about the AOP_APPLID environment variable and the **applid** attribute, see *z/OS Infoprint Server Customization*. For information about the VTAM code and VTAM state, see *z/OS Communications Server: IP and SNA Codes*.

If the APPL ID is correct and is not used by another application, this message might indicate a logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3905E	AOXVTM did not load. The return code is 0x*code*. The reason code is 0x*code*.

Explanation

An error occurred when IP PrintWay tried to send a data set to a VTAM controlled printer.

In the message text, *code* is the hexadecimal return code or reason code from the LOAD macro.

The problem might be one of these:

- Data can only be sent to a VTAM controlled printer if Infoprint Coaxial Printer Support for z/OS is installed. However, Infoprint Coaxial Printer Support cannot be installed because it is no longer supported.
- You moved module AOXVTM from SYS1.LINKLIB to a library that is not specified in the STEPLIB environment variable or is not defined to the STEPLIBLIST facility.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

If AOXVTM is not in SYS1.LINKLIB, specify the library that contains AOXVTM in the STEPLIB environment variable and define the library to the STEPLIBLIST facility.

For information about the STEPLIB environment variable and the STEPLIBLIST facility, see *z/OS Infoprint Server Customization*. For information about the codes, see *z/OS MVS System Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3906E	No APPLID for IP PrintWay was found when the VTAM protocol was requested.

Explanation

An error occurred when IP PrintWay tried to send a data set to a VTAM controlled printer.

The **applid** attribute is not specified. To print on VTAM controlled printers, you must create a VTAM APPL statement for IP PrintWay and specify the APPL ID in the **applid** configuration attribute.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES

spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Specify the APPL ID in the **applid** attribute in the system configuration definition. For information about the **applid** attribute, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3907E	Specify a printer LU name for the VTAM protocol.

Explanation

The printer LU name is missing or incorrect in the Protocol section of the printer definition, or the name is not defined in VTAM.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Specify a printer LU name in the printer definition, and make sure that the printer LU name is defined in VTAM. If you use the Printer Inventory Definition Utility (PIDU) to modify printer definitions, specify the **printer-luname** attribute on the **pidu** command.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3909E	**A VTAM error has occurred. The VTAM request code is 0x**_code_**. The VTAM feedback code is 0x**_code_**. The VTAM system sense code is 0x**_code_**. The VTAM RPL return code is 0x**_code_**. The VTAM LU name is** _luname_**. The VTAM logmode name is** _logmode_**.**

Explanation

An error occurred while IP PrintWay was sending a data set to a VTAM controlled printer.

In the message text:

- *code* is the hexadecimal code from VTAM.
- *luname* is the logical unit name of the VTAM controlled printer, which is specified in the printer definition in the Printer Inventory.
- *logmode* is the name of the entry in the VTAM logon-mode table that the printer uses. The logmode name can be specified in the printer definition. If it is not specified in the printer definition, it is the name

specified in the DLOGMOD parameter of the VTAM resource definition statement for the printer LU.

The problem might be one of these:

- The IP PrintWay connection timeout value expired before IP PrintWay was able to connect to the printer.
- The printer might be turned off.
- The printer LU name might be incorrect in the printer definition.
- The printer LU name might not be defined in VTAM.
- The printer logmode name might not be an entry in the VTAM logon-mode table. The logon-mode table is specified in the MODETAB parameter of the VTAM resource definition statement for the printer LU.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

If the connection timeout value expires repeatedly when the printer is turned on, increase the value in the **Connection timeout** field in the printer definition. Make sure that the printer is turned on, the printer LU and logmode names are correct in the printer definition, and that the printer LU and logmode names are defined in VTAM. For information about the VTAM codes, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3910E　　　**A VTAM STATE error has occurred. The return code is 0x*code*. The state is 0x*state*.**

Explanation

An error occurred while IP PrintWay was sending a data set to a VTAM controlled printer.

In the message text, *code* is the hexadecimal return code from VTAM and *state* is the state from VTAM.

The problem might be one of these:

- The APPL ID that you specified to Infoprint Server is spelled incorrectly.
- The APPL ID is not defined in VTAM.
- Another application is using the same APPL ID.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

Make sure that the APPL ID is spelled correctly, is defined to VTAM, and is not used by another application. The APPL ID is specified in the **applid** attribute in the system configuration definition. If you run IP PrintWay in a sysplex, also make sure that the

APPL ID is unique for IP PrintWay on each system. For information about the **applid** attribute, see *z/OS Infoprint Server Customization*. For information about the VTAM code and VTAM state, see *z/OS Communications Server: IP and SNA Codes*.

If the APPL ID is correct and is not used by another application, this message might indicate a logic problem. Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3911E   **A VTAM OPEN error has occurred. The return code is 0x*code*. The reason code is 0x*code*.**

Explanation

A VTAM error occurred while IP PrintWay was trying to send a data set to a VTAM controlled printer.

In the message text, *code* is the hexadecimal return code or reason code from VTAM.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the

retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Notify your system programmer that this error occurred.

System programmer response

For information about the VTAM codes, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3912I   **The transmission was successful but was canceled at the printer.**

Explanation

The operator canceled the print job at the printer after all data was transmitted.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3913E   **AOPITX did not load. The return code is 0x*code*. The reason code is 0x*code*.**

Explanation

An error occurred when IP PrintWay tried to send a data set to a VTAM controlled printer. You might have moved module AOPITX from SYS1.LINKLIB to a library that is not specified in the STEPLIB environment variable or is not defined to the STEPLIBLIST facility.

In the message text, *code* is the hexadecimal return code or reason code from the LOAD macro.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay tries to retransmit the data set. If this is the final retransmission, or if no retransmissions are requested, IP PrintWay retains the data set on the JES spool for the amount of time that is specified for failed transmissions and then deletes the data set.

Operator response

Notify your system programmer that this error occurred.

System programmer response

If AOPITX is not in SYS1.LINKLIB, specify the library that contains AOPITX in the STEPLIB environment variable and define the library to the STEPLIBLIST facility. For information about the STEPLIB environment variable and the STEPLIBLIST facility, see *z/OS Infoprint Server Customization*. For information about the VTAM codes, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3914E   **The response timeout expired. Intervention might be needed at the printer. The function code is 0x*code*.**

Explanation

The data set cannot be completely transmitted to the printer because the time specified in the **Response timeout** field of the printer definition in the Printer Inventory expired. This message can occur if the printer requires intervention, such as when the printer is out of paper, or if the printer is offline.

In the message text, *code* is the hexadecimal VTAM function code.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages in the Infoprint Server common message log" on page 124.

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Correct the problem at the printer.

System programmer response

If the response timeout value expires repeatedly when the printer is turned on, increase the value in the **Response timeout** field in the printer definition. For information about the VTAM codes, see *z/OS Communications Server: IP and SNA Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3915E	The connection timeout expired. Intervention might be needed at the printer.

Explanation

The data set cannot be transmitted to the printer because the time specified in the **Connection timeout** field of the printer definition in the Printer Inventory expired. This message can occur if another job is printing or if the printer is turned off.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages

System action

IP PrintWay attempts to retransmit the document to the printer. If this is the last retransmission attempt, IP PrintWay either deletes the print job from the JES spool or retains it on the JES spool. When the retention time expires, IP PrintWay automatically deletes the print job from the JES spool.

Operator response

Correct the problem at the printer.

System programmer response

If the connection timeout value expires repeatedly when the printer is turned on, increase the value in the **Connection timeout** field in the printer definition.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3949E	IP PrintWay extended mode does not support the VTAM protocol.

Explanation

You are using a version of IP PrintWay extended mode that does not support the VTAM protocol.

The **aoplogu** command provides more information in fields before the message text. For information about the contents of these fields, see "Format of messages

System action

The job failed on this attempt.

Operator response

None.

System programmer response

Change your JCL or the fields on the Allocation panel of the printer definition to direct the print job to IP PrintWay basic mode instead of IP PrintWay extended mode. Or, apply PTF UA15500 for the VTAM protocol.

User response

Contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3950E	Print job *job-name* does not contain the mail-to-addresses attribute.

Explanation

The print job is detected to be an email job and the mail-to-addresses cannot be determined.

In the message text, *job-name* is the name of the print job.

System action

The print job did not complete.

Operator response

None.

System programmer response

This message indicates a possible logic error.

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP3951I	IP PrintWay is sending the files in an e-mail with the following information: From: *from-address* To: *to-addresses* [Cc: *cc-addresses*] [Bcc: *bcc-addresses*] [Reply-To: *reply-address*] Subject: *subject*.

Explanation

IP PrintWay uses the sendmail to Communications Server SMTP (CSSMTP) bridge to send the files as attachments in an email.

In the message text:

bcc-addresses
    Email addresses of the blind copy recipients (other recipients cannot see a blind copy recipient).

cc-addresses
    Email addresses of the copy recipients.

from-address
    An optional descriptive name, followed by the email address of the sender.

reply-address
Email address that recipients can reply to.

subject
Subject of the email.

to-addresses
Email addresses of the recipients.

An email address can be an alias name that is defined to the sendmail bridge. An alias name represents one or more real email addresses.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4001I	Infoprint Central accepted a request from *userid* to delete the print job.

Explanation

From Infoprint Central, a user asked to delete the specified print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user

who made the request. Another message follows with the outcome of the request.

System action

Infoprint Central tries to delete the print job.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4002I	Infoprint Central accepted a request from *userid* to hold the print job.

Explanation

From Infoprint Central, a user asked to hold the specified print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request. Another message follows with the outcome of the request.

System action

Infoprint Central tries to hold the print job.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4003I	Infoprint Central accepted a request from *userid* to release the print job.

Explanation

From Infoprint Central, a user asked to release the specified print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request. Another message follows with the outcome of the request.

System action

Infoprint Central tries to release the print job.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4004I	Infoprint Central accepted a request from *userid* to set *attributes*.

Explanation

From Infoprint Central, a user asked to set one or more attributes. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request and *attributes* are the specified attributes. For example: `destination=foreign, jes-priority=52, process-mode=page`. For print jobs, another message follows with the outcome of the request.

System action

Infoprint Central tries to set the attributes.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4005I　　　**Infoprint Central deleted the document.**

Explanation

Infoprint Central deleted the document as a user requested.

System action

The document is deleted.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4006I　　　**Infoprint Central held the document.**

Explanation

Infoprint Central held the document as a user requested.

System action

The document is held.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4007I　　　**Infoprint Central released the document.**

Explanation

Infoprint Central released the document as a user requested.

System action

The document is released.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4008I	Infoprint Central modified the document.

Explanation

Infoprint Central modified the document as a user requested.

System action

The document is modified.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4009I	Infoprint Central accepted a request from *userid* to start the printer.

Explanation

From Infoprint Central, a user asked to start the printer. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to start the printer.

Operator response

Make sure that the printer starts. If the printer does not start, contact your system programmer.

System programmer response

For PSF printers, check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4011I	Infoprint Central accepted a request from *userid* to pause the printer.

Explanation

From Infoprint Central, a user asked to pause the printer. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to pause the printer.

Operator response

Make sure that the printer is paused. If the printer is not paused, contact your system programmer.

System programmer response

For PSF printers, check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4012I	Infoprint Central accepted a request from *userid* to interrupt the printer.

Explanation

From Infoprint Central, a user asked to interrupt the printer. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to interrupt the printer.

Operator response

Make sure that the printer is interrupted. If the printer is not interrupted, contact your system programmer.

System programmer response

For PSF printers, check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4013I   **Infoprint Central accepted a request from *userid* to repeat the printer.**

Explanation

From Infoprint Central, a user asked to repeat the printer. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to repeat the printer.

Operator response

Make sure that the printer repeats. If the printer does not repeat, contact your system programmer.

System programmer response

For PSF printers, check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4014I   **Infoprint Central accepted a request from *userid* to redirect the printer to *printer*.**

Explanation

From Infoprint Central, a user asked to redirect the printer. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *printer* is the printer where print jobs are to be sent. Another message follows with the outcome of the request.

System action

Infoprint Central tries to redirect the printer.

Operator response

Make sure that the printer is redirected. If the printer is not redirected, contact your system programmer.

System programmer response

If the printer is not redirected, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4015I Infoprint Central accepted a request from *userid* to restore the printer.

Explanation

From Infoprint Central, a user asked to restore the printer. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request. Another message follows with the outcome of the request.

System action

Infoprint Central tries to restore the printer.

Operator response

Make sure that the printer is restored. If the printer is not restored, contact your system programmer.

System programmer response

If the printer is not restored, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4016I Infoprint Central accepted a request from *userid* to start the LU.

Explanation

From Infoprint Central, a user asked to start the logical unit (LU). Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to start the LU.

Operator response

Make sure that the LU starts. If the LU does not start, contact your system programmer.

System programmer response

Check the MVS system log for NetSpool or VTAM messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4017I Infoprint Central accepted a request from *userid* to stop the LU.

Explanation

From Infoprint Central, a user asked to stop the logical unit (LU). Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to stop the LU.

Operator response

Make sure that the LU stops. If the LU does not stop, contact your system programmer.

System programmer response

Check the MVS system log for NetSpool or VTAM messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4018I   **Infoprint Central did not delete the document due to an error.**

Explanation

Infoprint Central did not delete the document as a user requested.

System action

Processing continues.

Operator response

None.

System programmer response

For IP PrintWay jobs, check the Infoprint Server print job log for IP PrintWay messages. For JES jobs, check the MVS system log for JES messages.

User response

Try to delete the document again. If the problem persists, contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4019I   **Infoprint Central did not hold the document due to an error.**

Explanation

Infoprint Central did not hold the document as a user requested.

System action

Processing continues.

Operator response

None.

System programmer response

For IP PrintWay jobs, check the Infoprint Server print job log for IP PrintWay messages. For JES jobs, check the MVS system log for JES messages.

User response

Try to hold the document again. If the problem persists, contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4020I　　　**Infoprint Central did not release the document due to an error.**

Explanation

Infoprint Central did not release the document as a user requested.

System action

Processing continues.

Operator response

None.

System programmer response

Check the MVS system log for JES messages.

User response

Try to release the document again. If the problem persists, contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4021I　　　**Infoprint Central did not modify the document due to an error.**

Explanation

Infoprint Central did not modify the document as a user requested.

System action

Processing continues.

Operator response

None.

System programmer response

Check the MVS system log for JES messages.

User response

Try to modify the document again. If the problem persists, contact your system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4022I   Infoprint Central accepted a request from *userid* to move the print job to *printer*.

Explanation

From Infoprint Central, a user asked to move the specified print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *printer* is the printer where the print job is to be sent. Another message follows with the outcome of the request.

System action

Infoprint Central tries to move the print job.

Operator response

Make sure that the print job moves. If the print job does not move, contact your system programmer.

System programmer response

Check the Infoprint Server print job log for IP PrintWay messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4023I   The release failed because no documents are held.

Explanation

From Infoprint Central, a user released a print job. Because the configuration attribute is **use-output-disposition=yes**, Infoprint Server issues $OJ; however, JES2 responds with: $HASP003 RC=(52),O J(…) - NO SELECTABLE ENTRIES FOUND MATCHING SPECIFICATION.

System action

None.

Operator response

If this job does not print when a printer is available, make sure that a job-level hold is not in effect ($HJ).

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Central.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4026I   Infoprint Central accepted a request from *userid* to space the printer forward *number* pages from the start of the data set.

Explanation

From Infoprint Central, a user asked to space the printer forward from the start of the data set. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and

number is the number of pages to space the printer forward from the start of the data set.

System action

Infoprint Central tries to space the printer forward the correct number of pages from the start of the data set.

Operator response

Make sure that the printer spaces forward the correct number of pages from the start of the data set. If the printer does not space forward the correct number of pages from the start of the data set, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4027I	**Infoprint Central accepted a request from *userid* to space the printer forward *number* pages from the end of the data set.**

Explanation

From Infoprint Central, a user asked to space the printer forward from the end of the data set. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer forward from the end of the data set.

System action

Infoprint Central tries to space the printer forward the correct number of pages from the end of the data set.

Operator response

Make sure that the printer spaces forward the correct number of pages from the end of the data set. If the printer does not space forward the correct number of pages from the end of the data set, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4028I	**Infoprint Central accepted a request from *userid* to space the printer forward *number* pages from the last checkpoint.**

Explanation

From Infoprint Central, a user asked to space the printer forward from the last checkpoint. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer forward from the last checkpoint.

System action

Infoprint Central tries to space the printer forward the correct number of pages from the last checkpoint.

Operator response

Make sure that the printer spaces forward the correct number of pages from the last checkpoint. If the printer does not space forward the correct number of pages from the last checkpoint, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4029I	Infoprint Central accepted a request from *userid* to space the printer forward *number* pages from the current page.

Explanation

From Infoprint Central, a user asked to space the printer forward from the current page. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer forward from the current page.

System action

Infoprint Central tries to space the printer forward the correct number of pages from the current page.

Operator response

Make sure that the printer spaces forward the correct number of pages from the current page. If the printer does not space forward the correct number of pages from the current page, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4030I	Infoprint Central accepted a request from *userid* to space the printer backward *number* pages from the start of the data set.

Explanation

From Infoprint Central, a user asked to space the printer backward from the start of the data set. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer backward from the start of the data set.

System action

Infoprint Central tries to space the printer backward the correct number of pages from the start of the data set.

Operator response

Make sure that the printer spaces backward the correct number of pages from the start of the data set. If the printer does not space backward the correct number of pages from the start of the data set, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4031I   **Infoprint Central accepted a request from *userid* to space the printer backward *number* pages from the end of the data set.**

Explanation

From Infoprint Central, a user asked to space the printer backward from the end of the data set. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer backward from the end of the data set.

System action

Infoprint Central tries to space the printer backward the correct number of pages from the end of the data set.

Operator response

Make sure that the printer spaces backward the correct number of pages from the end of the data set. If the printer does not space backward the correct number of pages from the end of the data set, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4032I   **Infoprint Central accepted a request from *userid* to space the printer backward *number* pages from the last checkpoint.**

Explanation

From Infoprint Central, a user asked to space the printer backward from the last checkpoint. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer backward from the last checkpoint.

System action

Infoprint Central tries to space the printer backward the correct number of pages from the last checkpoint.

Operator response

Make sure that the printer spaces backward the correct number of pages from the last checkpoint. If the printer does not space backward the correct number of pages from the last checkpoint, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4033I	Infoprint Central accepted a request from *userid* to space the printer backward *number* pages from the current page.

Explanation

From Infoprint Central, a user asked to space the printer backward from the current page. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request, and *number* is the number of pages to space the printer backward from the current page.

System action

Infoprint Central tries to space the printer backward the correct number of pages from the current page.

Operator response

Make sure that the printer spaces backward the correct number of pages from the current page. If the printer does not space backward the correct number of pages from the current page, contact your system programmer.

System programmer response

Check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4035I	Infoprint Central accepted a request from *userid* to stop the printer and complete the current print job.

Explanation

From Infoprint Central, a user asked to stop the printer and complete the current print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request. Another message follows with the outcome of the request.

System action

Infoprint Central tries to stop the printer and complete the current print job.

Operator response

Make sure that the printer stops and the current print job is completed. If the printer does not stop or the current print job is not completed, contact your system programmer.

System programmer response

For IP PrintWay printers, check the IP PrintWay printer log for IP PrintWay messages. For PSF printers, check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4036I	Infoprint Central accepted a request from *userid* to stop the printer and delete the current print job.

Explanation

From Infoprint Central, a user asked to stop the printer and delete the current print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request. Another message follows with the outcome of the request.

System action

Infoprint Central tries to stop the printer and delete the current print job.

Operator response

Make sure that the printer stops and the current print job is deleted. If the printer does not stop or the current print job is not deleted, contact your system programmer.

System programmer response

For IP PrintWay printers, check the IP PrintWay printer log for IP PrintWay messages. For PSF printers, check the MVS system log for JES or PSF messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4037I	Infoprint Central accepted a request from *userid* to stop the printer and hold the current print job.

Explanation

From Infoprint Central, a user asked to stop the printer and hold the current print job. Infoprint Central is acknowledging the user's request. In the message, *userid* is the user who made the request.

System action

Infoprint Central tries to stop the printer and hold the current print job.

Operator response

Make sure that the printer stops and the current print job is held. If the printer does not stop or the current print job is not held, contact your system programmer.

System programmer response

Check the IP PrintWay printer log for IP PrintWay messages.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP4040E	You do not have permission to communicate with Infoprint Server.

Explanation

The user who is logged in to Infoprint Central is not authorized to access Infoprint Server files or directories.

System action

Infoprint Central continues, but most Infoprint Central actions fail.

Operator response

Notify the system programmer that this error occurred.

System programmer response

To fix this problem try restarting the Infoprint Central daemon, **aopssid**.

If the problem persists after you restart the **aopssid** daemon, run the **aopsetup** shell script to set the correct permissions for Infoprint Server directories. For information about how to run **aopsetup**, see *z/OS Infoprint Server Customization*.

If the problem continues to persist, contact your service representative at the IBM Support Center, or use your electronic link with IBM for assistance.

User response

Notify the system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5000E	The OpenPrinter function failed.

Explanation

The Infoprint Server Port Monitor tried to use the Windows OpenPrinter function, but the OpenPrinter function failed.

System action

The Infoprint Server Port Monitor stops processing the request.

Operator response

None.

System programmer response

None.

User response

Try the request again. If the problem persists, contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5001I   Enter a name for the Infoprint port.

Explanation

The user did not enter a name for the new Infoprint Port Monitor port. A port name is required.

System action

The Infoprint Server Port Monitor waits.

Operator response

None.

System programmer response

None.

User response

Try the request again. If the problem persists, contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5002I   The port has been deleted.

Explanation

The user added an Infoprint Port Monitor port but did not configure it.

System action

The Infoprint Port Monitor for Windows deletes the new Infoprint port.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5003E   **The ClosePrinter function failed.**

Explanation

The Infoprint Server Port Monitor tried to use the Windows ClosePrinter function, but the ClosePrinter function failed.

System action

The Infoprint Port Monitor for Windows stops processing the request.

Operator response

None.

System programmer response

None.

User response

Try the request again. If the problem persists, contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5004I   **Enter the host name of the z/OS system in Host Name**

Explanation

On the Infoprint Port Monitor Configuration window, the user did not enter the host name or IP address of the z/OS system. The host name is required.

System action

The Infoprint Port Monitor for Windows waits.

Operator response

None.

System programmer response

None.

User response

Enter the host name or IP address of the z/OS system in the Host Name field.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5005I   **Enter the port number of the Infoprint Server LPD in Host Port.**

Explanation

On the Infoprint Port Monitor Configuration window, the user did not enter the port number of the Infoprint Server line printer daemon (LPD). The port number is required.

System action

The Infoprint Port Monitor for Windows waits.

Operator response

None.

System programmer response

None.

User response

Enter the port number where the LPD is listening in the **Host Port** field. The usual port number is 515.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5006I	Click Get Printer List. Then select the printer you want to use from the Printer Selection list.

Explanation

On the Infoprint Port Monitor Configuration window, the user clicked OK without selecting a z/OS printer.

System action

The Infoprint Port Monitor for Windows waits.

Operator response

None.

System programmer response

None.

User response

Follow the instructions in the message text.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5007I	Port *name* already exists.

Explanation

The user entered a port name that another Windows port uses. The port name must be unique in the Windows system.

In the message text, *name* is the name of the port that the user entered.

System action

The Infoprint Port Monitor for Windows waits.

Operator response

None.

System programmer response

None.

User response

Enter a different port name and click OK.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5008I **The port number must be an integer.**

Explanation

On the Infoprint Port Monitor Configuration window, the user entered an alphabetic port number in the **Host Port** field. The port number must be an integer.

System action

The Infoprint Port Monitor for Windows waits.

Operator response

None.

System programmer response

None.

User response

Enter the port number where the Infoprint Server line printer daemon (LPD) is listening. The usual port number is 515.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5050E **Registry error: *registry-function* failed.**

Explanation

The Infoprint Server Port Monitor for Windows tried to update the Windows registry, but the Windows registry function failed.

In the message text, *registry-function* is the name of the Windows registry function that failed.

System action

The Infoprint Port Monitor for Windows stops processing the request.

Operator response

None.

System programmer response

None.

User response

Try the request again. If the problem persists, contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5051E **Communication protocol error.**

Explanation

The Infoprint Server Port Monitor for Windows cannot connect to the z/OS system where Infoprint Server is running. The network might be experiencing problems, the z/OS host name in the **Host Name** field might be incorrect, or the port number in the **Host Port** field might be incorrect.

System action

The Infoprint Port Monitor for Windows stops processing the request. If the Port Monitor is configuring a port, the port is not configured. If the Port Monitor is sending a print job to the z/OS system, the file is not sent.

Operator response

None.

System programmer response

None.

User response

If you are adding a Windows printer, make sure that the host name and port number for the z/OS system are correct on the Infoprint Port Monitor Configuration page. Then, select **Get Printer List**. If the problem persists, look at the other messages in the Windows event log to determine the problem, or contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5052E   The Infoprint Server LPD prematurely closed the connection.

Explanation

The Infoprint Server line printer daemon (LPD) unexpectedly closed the network connection with the Infoprint Port Monitor.

System action

The Infoprint Port Monitor for Windows stops processing the request. If the Port Monitor is configuring a port, the port is not configured. If the Port Monitor is sending a print job to the z/OS system, the file is not sent.

Operator response

None.

System programmer response

Make sure that the Infoprint Server LPD is running.

User response

Try the request again. If the problem persists, contact your z/OS administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5053E   Communication error: *TCP-function* failed.

Explanation

The Infoprint Server Port Monitor for Windows cannot connect to the z/OS system where Infoprint Server is running. The network might be experiencing problems.

In the message text, *TCP-function* is the name of the Windows TCP/IP function that failed.

System action

The Infoprint Port Monitor for Windows stops processing the request. If the Port Monitor is configuring a port, the port is not configured. If the Port Monitor is sending a print job to the z/OS system, the file is not sent.

Operator response

None.

System programmer response

None.

User response

If the problem persists, look at the other messages in the Windows event log to determine the problem, or contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOP5054E **Port list error.**

Explanation

The Infoprint Server Port Monitor for Windows cannot get a list of Windows ports. This message indicates a Windows problem.

System action

The Infoprint Port Monitor for Windows stops processing the request.

Operator response

None.

System programmer response

None.

User response

Try the request again. If the problem persists, contact your Windows administrator.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server Port Monitor for Windows.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1501E **The Infoprint Server base directory contains Version 2 Printer Inventory files.**

Explanation

File `master.v2db` was found in the Infoprint Server base directory. This file indicates that Infoprint Server reformatted the Version 1 Printer Inventory and created a Version 2 Printer Inventory on z/OS V1R12 (or later). The Version 1 Printer Inventory and the Version 2 Printer Inventory both exist in the Infoprint Server base directory. However, Infoprint Server on z/OS releases before z/OS V1R12 use only the Version 1 Printer Inventory.

Before you start Infoprint Server on z/OS V1R12 (or later) again, IBM suggests that you remove file `master.v2db` so that Infoprint Server creates a new

Version 2 Printer Inventory. Any changes that the administrator made in the Version 1 Printer Inventory after falling back to a release before z/OS V1R12 are included in the new Version 2 Printer Inventory. However, if you want to keep any changes that the administrator made in the Version 2 Printer Inventory before falling back, do not remove file `master.v2db`. If file `master.v2db` exists, Infoprint Server on z/OS V1R12 (and later) does not create a new Version 2 Printer Inventory.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Examine the report that this check produced. An "E" in the "S" (Status) column indicates that the `master.v2db` file exists in the indicated base directory. If wanted, remove file `master.v2db` from the base directory. To remove `master.v2db`, you must have an effective UID of 0 or be a member of the RACF AOPADMIN group.

For more information, see *z/OS Upgrade Workflow*.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1502I	The Infoprint Server base directory does not contain Version 2 Printer Inventory files.

Explanation

No Version 2 Printer Inventory files were found in the Infoprint Server base directory. Either you did not yet start Infoprint Server on z/OS V1R12 (or later), or you removed the Version 2 Printer Inventory files.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1503I	ENV/NA

Explanation

The Printer Inventory is not available. This indicates that Infoprint Server was not started on this system.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Start Infoprint Server before running this check.

For information about more migration actions, see *z/OS Upgrade Workflow*.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1504E   Health Check was unable to complete.

Explanation

An error prevented the health check from completing.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Check the system log and the Infoprint Server log for messages to determine why the health check was unable to complete. Correct the problem and run the health check again.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1511E   The Infoprint Server file system has insufficient space to reformat the Printer Inventory when you migrate to z/OS V1R12.

Explanation

The Infoprint Server file system does not have enough available space for the Version 2 Printer Inventory. The first time that you start Infoprint Server on z/OS V1R12 (or later), Infoprint Server attempts to reformat the Version 1 Printer Inventory and create a Version 2 Printer Inventory. If insufficient space exists, Infoprint Server does not start.

The minimum available space that is required is 2 times the space that the Version 1 Printer Inventory files currently use. (Version 1 Printer Inventory files have extension .db.)

The health check produced a report that identifies the Infoprint Server file system with its total available space and used space plus the minimum available space that is required to create the Version 2 Printer Inventory. An "N" in the "S" (Status) column indicates that the Version 2 Printer Inventory exists.

System action

Processing continues. However, if you do not increase the available space, Infoprint Server cannot start on z/OS V1R12 (or later).

Operator response

Report this problem to the system programmer.

System programmer response

Examine the report that the health check produced.

- An "E" in the "S" (Status) column indicates that the file system does not have enough available space.
- An "N" in the "S" (Status) column indicates that file `master.v2db` exists. The amount of available space was not checked because Version 2 Printer Inventory files exist.

After you increase the space in the file system, run this check again to verify that enough available space exists.

For more information, see Infoprint Server information in *z/OS Upgrade Workflow*.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1512I **The Infoprint Server file system has sufficient space to reformat the Printer Inventory when you migrate to z/OS V1R12. The health check produced a report that identifies the Infoprint Server file system with its total available space and used space plus the minimum available space that is required to create the Version 2 Printer Inventory. An "N" in the "S"(Status) column indicates that**

the Version 2 Printer Inventory exists.

Explanation

The Infoprint Server file system has enough space for the Version 2 Printer Inventory. The first time that you start Infoprint Server on z/OS V1R12 (or later), Infoprint Server attempts to reformat the Version 1 Printer Inventory and create the Version 2 Printer Inventory. If insufficient space exists, Infoprint Server does not start.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1513I **ENV/NA**

Explanation

File `master.v2db` was found in the Infoprint Server base directory. This file indicates that Infoprint Server created the Version 2 Printer Inventory on z/OS V1R12 (or later). Therefore, there is no need to check that

available space exists for the Version 2 Printer Inventory.

The health check produced a report that identifies the Infoprint Server base directory. An "N" in the "S" (Status) column indicates that the base directory contains file `master.v2db`.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1514I	**File `master.v2db` was found in the Infoprint Server base directory. This file indicates that Infoprint Server created the Version 2 Printer Inventory on z/OS V1R12 (or later). Therefore, there is no need to check that available space exists for the Version 2 Printer Inventory. The health check produced a report that identifies the Infoprint Server base directory. An "N" in the "S" (Status) column indicates that the**

base directory contains file master.v2db.

Explanation

The Infoprint Server file system has enough space for the Version 2 Printer Inventory. The first time you start Infoprint Server on z/OS V1R12, Infoprint Server attempts to reformat the Version 1 Printer Inventory and create the Version 2 Printer Inventory. If insufficient space exists, Infoprint Server does not start.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1515I	**The Printer Inventory is not available. This indicates that Infoprint Server has not been started on this system.**

Explanation

The Printer Inventory is not available. This indicates that Infoprint Server is not started on this system.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Start Infoprint Server before running this check.

For information about more migration actions, see *z/OS Upgrade Workflow*.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1803I   ENV/NA

Explanation

The Printer Inventory is not available. This indicates that Infoprint Server has not been started on this system.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Start Infoprint Server before running this check.

Problem determination

Not applicable.

Module

AOPHCK.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1804E   Health Check was unable to complete.

Explanation:
An error prevented the health check from completing.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Check the system log and the Infoprint Server log for messages to determine why the health check was unable to complete. Correct the problem and run the health check again.

Problem determination

Not applicable.

Module

AOPHCK.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1805I   **The Printer Inventory is not available. This indicates that Infoprint Server has not been started on this system.**

Explanation

Infoprint Server must be started before you can run a health check.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Start Infoprint Server before running this check.

For information about more migration actions, see *z/OS Upgrade Workflow*.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1806I   **The aopssid daemon has not been started. This indicates that Infoprint Central daemon has not been started on this system.**

Explanation

The Infoprint Central (**aopssid**) daemon must be started before you can run a health check.

System action

Processing continues.

Operator response

None.

System programmer response

Start the **aopssid** daemon before running this check.

Problem determination

Not applicable.

Module

AOPHCK.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1902E   **Infoprint Server: Enable Dynamic Configuration to prepare for migration to a release after V2R3.**

Explanation

Infoprint Server has started without dynamic configuration enabled. IBM strongly encourages

running with dynamic configuration enabled. Starting with V2R4, dynamic configuration is mandatory. When Infoprint Server is started the first time after enabling dynamic configuration in aopd.conf, you might see message AOP192E if Infoprint Server cannot find a valid system configuration definition in the Printer Inventory. You must supply a system configuration definition before Infoprint Server can complete startup. See *z/OS Infoprint Server Customization*.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Enable dynamic configuration and restart Infoprint Server.

Problem determination

Not applicable.

Module

Not applicable.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1903R	Active Infoprint Server inventory name *msgtext*

Explanation

Infoprint Server has started without dynamic configuration enabled. IBM strongly encourages running with dynamic configuration enabled. Starting with V2R4, dynamic configuration is mandatory. When Infoprint Server is started the first time after enabling dynamic configuration in aopd.conf, you might see message AOP192E if Infoprint Server cannot find a

valid system configuration definition in the Printer Inventory. You must supply a system configuration definition before Infoprint Server can complete startup. See *z/OS Infoprint Server Customization*.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

Enable dynamic configuration and restart Infoprint Server.

Problem determination

Not applicable.

Module

Not applicable.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1905I	Infoprint Central: SSL is enabled for Infoprint Central, no action required.

Explanation

Infoprint Central has started with the Secure Sockets Layer (SSL) enabled

System action

Processing continues.

Operator response

Not applicable.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1906E **Infoprint Central: Enable SSL to prepare for migration to a release after V2R3.**

Explanation

Infoprint Central has started without the Secure Sockets Layer (SSL) enabled. IBM strongly encourages running with SSL enabled. Starting with V2R4, SSL connections are required by default.

System action

Processing continues.

Operator response

Not applicable.

System programmer response

Enable SSL and restart Infoprint Central.

Problem determination

Not applicable.

Module

Not applicable.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1907R **Active Infoprint Server port number** *msgtext*

Explanation

Not applicable.

System action

Not applicable.

Operator response

Not applicable.

System programmer response

Not applicable.

Problem determination

Not applicable.

Module

Not applicable.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1908I **Infoprint Central: SSL Configuration is enabled for Infoprint Central, no action required.**

Explanation

Check (IBMINFOPRINT, INFOPRINT_CENTRAL_SECURE_MODE) detected that Infoprint Central has started with SSL configuration enabled. No further action is required.

System action

The system continues to function.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

APOPHCK.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPH1909E   **Infoprint Central: Enable SSL Configuration to prevent security exposures.**

Explanation

Infoprint Central has started without SSL configuration enabled. IBM strongly encourages running with SSL enabled.

System action

Processing continues.

Operator response

Report this problem to the system programmer.

System programmer response

Enable SSL configuration and restart Infoprint Central.

Problem determination

Not applicable.

Module

APOPHCK.

Source

Not applicable.

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM000– AOPIM999

Explanation

These messages are displayed by the Infoprint Server ISPF panels. For an explanation of the messages, press the ISPF HELP function key when the message is displayed on the ISPF panel. Not all of the ISPF messages are listed here; the ones listed are those that need more explanation than what the online help gives.

AOPIM010   *module_name* **RC=***return_code***.**

Explanation

An unexpected error with an ISPF *return_code* occurred during processing.

System action

The request was not completed.

Operator response

None.

System programmer response

Correct the error that corresponds to *return_code*. See *z/OS ISPF Messages and Codes*. If the error persists, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM011   **An incorrect call to AOPICDMN was issued, indicating a panel error.**

Explanation

A panel script error occurred when you selected an option to display an ISPF panel. The panel script is either changed or corrupted.

System action

Processing stops.

Operator response

None.

System programmer response

If the panel script was changed, check the script for an error. Otherwise, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Report this problem to the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM016   **A system call during initialization encountered an error.**

Explanation

You entered an option to display an ISPF panel. However, the panel setup received a nonzero return code when trying to initialize an environment variable.

System action

The request was not completed.

Operator response

None.

System programmer response

None.

User response

Contact the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM017   Check IKJTSOxx.

Explanation

Infoprint Server is not customized correctly so that you can use the dynamic tracing fields on the ISPF System Configuration panel. The IKJTSOxx member of SYS1.PARMLIB does not include the AOPICXCF program in the correct lists.

System action

The request was not completed.

Operator response

None.

System programmer response

To authorize dynamic tracing, edit the IKJTSOxx member of SYS1.PARMLIB and add program AOPICXCF to the AUTHPGM and AUTHTSF lists.

For more information about authorizing dynamic tracing, see *z/OS Infoprint Server Customization*.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM019   Not authorized

Explanation

You selected the ISPF panel option to view or edit the system configuration definition in the Printer Inventory. However, you do not have the required authorization to view or edit the system configuration definition.

System action

Processing continues.

Operator response

None.

System programmer response

For information about the required authorization, see *z/OS Infoprint Server Customization*.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM021   You are not authorized to read the Printer Inventory.

Explanation

You selected the ISPF panel option to view the Infoprint Server Printer Inventory. However, you do not have the required authorization to view the Printer Inventory.

System action

The request was not completed.

Operator response

Not applicable.

System programmer response

Give the user read access to the Printer Inventory. For information about how to authorize users, see *z/OS Infoprint Server Customization*.

User response

Ask your administrator to give you read access to the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM022   **System error** *errmsg*

Explanation

A system error occurred while processing the request. *errmsg* is a message that gives more information about the system error.

System action

The request was not completed.

Operator response

None.

System programmer response

See the description for message *errmsg*.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM023   **The Printer Inventory is not started or is inaccessible.** *errmsg*

Explanation

An error was encountered because the Printer Inventory is not started or is not accessible. *errmsg* is a message that gives more information about the error.

System action

The request was not completed.

Operator response

None.

System programmer response

See the description for message *errmsg*.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPIM033 **The list was not displayed because an ISPF table allocation error occurred with a return code of *return_code*.**

Explanation

You selected an ISPF panel option to display a list. However, the list cannot be displayed because an error occurred with an ISPF *return_code*.

System action

The request was not completed.

Operator response

None.

System programmer response

Correct the error that corresponds to *return_code*. See *z/OS ISPF Messages and Codes*. If the error persists, contact the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS002I **Subsystem established successfully.**

Explanation

The Print Interface subsystem was defined and activated.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS004S   Subsystem create failed, undefined reason code.

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem returned an undefined reason code.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for information about IEFSSVT reason codes.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS005I   Subsystem already active.

Explanation

The Print Interface subsystem was already active when the start command or JCL startup procedure was run.

System action

Processing continues.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS006E   Subsystem query failed.

Explanation

The IEFSSI REQUEST=QUERY macro to query the Print Interface subsystem failed.

System action

The state of the Print Interface subsystem is not known. Job submitters might not be able to submit data sets to the Print Interface subsystem.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS007E	Subsystem exchange failed, no vector table.

Explanation

The IEFSSVT REQUEST=EXCHANGE macro failed because no vector table exists.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS008E	Subsystem activate failed, unknown subsystem.

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the subsystem that Infoprint Server added no longer exists.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS009E   **Subsystem activate failed, not dynamic.**

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the subsystem was not dynamic.

System action

The Print Interface subsystem is not activated.

AOPS010E   **Subsystem activate failed, bad token.**

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the token returned by the IEFFSSI REQUEST=QUERY macro was not a valid token.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS011E	Subsystem activate failed, invalid name.

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the Print Interface subsystem name contains characters that the subsystem interface (SSI) does not allow.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS012E	Subsystem activate failed, parameter string too long.

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the parameter string was too long.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS013S	Subsystem activate failed, undefined reason code.

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed and returned an undefined reason code.

System action

The subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS014E	Subsystem activate failed, no vector table.

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the vector table was undefined.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS015S	Subsystem activate failed, system error.

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the subsystem interface (SSI) returned a system error.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS016E	Subsystem activate failed, SSI not available.

Explanation

The IEFSSI REQUEST=ACTIVATE macro failed because the subsystem interface (SSI) is not yet initialized.

System action

The Print Interface subsystem is not activated.

Operator response

Wait for the SSI to be initialized. Then, restart the Print Interface subsystem.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS017S   **Subsystem activate failed, undefined return code.**

Explanation

The IEFSSI REQUEST=ACTIVATE macro to activate the Print Interface subsystem failed because the subsystem interface (SSI) returned an undefined return code.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSI macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS019E   **Subsystem create failed, unknown subsystem.**

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because the subsystem was not known.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS020E   **Subsystem create failed, maximum vector tables exist.**

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because there were too many vector table entries.

System action

The Print Interface subsystem is not activated.

Operator response

None.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS021E   **Subsystem create failed, storage unavailable.**

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because not enough storage was available.

System action

The Print Interface subsystem is not activated.

Operator response

Restart the Print Interface subsystem after the problem is corrected. If the problem recurs, notify your system programmer that this error occurred.

System programmer response

For information, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS022E   **Subsystem create failed, input table too large.**

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because

the MAXENTRIES value was smaller than the number of routines specified.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS023E	Subsystem create failed, MAXENTRIES value too big.

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because the MAXENTRIES value was larger than the maximum allowed.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS024E	Subsystem create failed, load error.

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because one or more of the functions was not found.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This message indicates an installation error. Make sure that the Print Interface subsystem routines are in LPALIB.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS025S	Subsystem create failed, system error.

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed with a system error.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS026E	Subsystem create failed, SSI not available.

Explanation

The IEFSSVT REQUEST=CREATE macro to create the Print Interface subsystem vector table failed because the subsystem interface (SSI) was not yet ready.

System action

The Print Interface subsystem is not activated.

Operator response

Wait until the SSI is initialized. Then, restart the Print Interface subsystem.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS027S   Subsystem create failed, undefined return code.

Explanation

The IEFSSVT REQUEST=CREATE macro failed with an undefined return code.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS028E   Subsystem exchange failed, vector table full.

Explanation

The IEFSSVT REQUEST=EXCHANGE macro failed because the maximum number of routines was already loaded, and no more can be loaded.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS029S   **Subsystem exchange failed, undefined reason code.**

Explanation

The IEFSSVT REQUEST=EXCHANGE macro failed with an undefined reason code.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for more information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS030S   **Subsystem exchange failed, undefined return code.**

Explanation

The IEFSSVT REQUEST=EXCHANGE macro failed with an undefined return code.

System action

The Print Interface subsystem is not activated.

Operator response

Notify your system programmer that this error occurred. Restart the Print Interface subsystem after the problem is corrected.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Also, see the description of the IEFSSVT macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for information.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS101E   **Invalid DSNAME format, use &&NAME**

Explanation

The data set name that is coded in the DSNAME parameter on the DD JCL statement is in a format that the Print Interface subsystem does not support.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

None.

User response

Code the DSNAME parameter in the format DSNAME=&&*name*. Then, resubmit the job.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS203S   **Allocation connect failed.**

Explanation

The Print Interface subsystem allocation client cannot connect to the Print Interface subsystem server. The subsystem server might be stopped.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

Restart the Print Interface subsystem.

System programmer response

None.

User response

Notify the operator that this problem occurred. Resubmit the job after the Print Interface subsystem is started.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS204E   **Subsystem server is not started.**

Explanation

The connection to the Print Interface subsystem cannot be completed because the server is stopped.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

Restart the Print Interface subsystem.

System programmer response

None.

User response

Notify the operator that this problem occurred. Resubmit the job after the Print Interface subsystem is started.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS205E   **Subsystem server token not available.**

Explanation

The connection to the Print Interface subsystem is lost because the Infoprint Server subsystem server stopped.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

Restart the Print Interface subsystem.

System programmer response

None.

User response

Notify the operator that this problem occurred. Resubmit the job after the Print Interface subsystem is started.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS206E   **OUTPUT SWB not found.**

Explanation

The OUTPUT parameter was specified on the DD JCL statement, but the output statement was not found.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS207E   OUTPUT GETSWB failed.

Explanation

The SWB for the OUTPUT JCL statement was found, but the GETSWB macro failed.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS208E   DD GETSWB failed.

Explanation

The SWB for the DD JCL statement was found, but the GETSWB macro failed.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS209E   Invalid SUBSYS parameters.

Explanation

You coded too many subparameters on the SUBSYS parameter.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

None.

User response

Correct the SUBSYS parameter and resubmit the job. For information about how to code the SUBSYS parameter, see *z/OS Infoprint Server User's Guide*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS211I   Allocation was cancelled.

Explanation

The CANCEL command was sent while the Print Interface subsystem was allocating the data set on the JES spool.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

None.

User response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS212S   Allocation connect failed, no
**   connection available.**

Explanation

The internal connection table for Print Interface was full because the maximum number of data sets was already being processed.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

None.

User response

Resubmit the job when the system is less busy.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS301E   **OPEN failed. result =** *reason code*

Explanation

The Print Interface subsystem cannot process the OPEN request from the subsystem interface (SSI) for the data set.

In the message text:

reason code
   A code that indicates the reason for the error, in the format: 00*xxyyzz*.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Follow the system programmer response for the reason code in "Infoprint Server system completion codes and reason codes" on page 348.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS401E   **PUT failed. result =** *reason code*

Explanation

The Print Interface subsystem cannot process the PUT request from the subsystem interface (SSI) for the data set.

In the message text:

reason code
   A code that indicates the reason for the error, in the format: 00*xxyyzz*.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Follow the system programmer response for the reason code in "Infoprint Server system completion codes and reason codes" on page 348.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS501E   CLOSE failed. result = *reason code*

Explanation

The Print Interface subsystem cannot process the CLOSE request from the subsystem interface (SSI) for the data set.

In the message text:

reason code
    A code that indicates the reason for the error, in the format: 00*xxyyzz*.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Follow the system programmer response for the reason code in "Infoprint Server system completion codes and reason codes" on page 348.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS701E   Disconnect failed. result = *reason code*

Explanation

The Print Interface subsystem cannot process the disconnect request from the subsystem interface (SSI) for the data set.

In the message text:

reason code
    A code that indicates the reason for the error, in the format: 00*xxyyzz*.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

Follow the system programmer response for the reason code in "Infoprint Server system completion codes and reason codes" on page 348.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS702S   **Subsystem server has terminated. result = *reason code***

Explanation

The Print Interface subsystem server ended.

In the message text:

reason code
    A code that indicates the reason for the error, in the format: 00*xxyyzz*.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

Restart the Print Interface subsystem after the problem is corrected.

System programmer response

Follow the system programmer response for the reason code in "Infoprint Server system completion codes and reason codes" on page 348.

User response

Notify your system programmer that this error occurred. Resubmit the job after the Print Interface subsystem is restarted.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

AOPS999T   **Invalid message request.**

Explanation

A Print Interface function made an incorrect message request.

System action

The Print Interface subsystem does not create output data sets on the JES spool for any data sets in the job step.

Operator response

None.

System programmer response

This error indicates a possible logic error. Save the associated dump. Then, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify your system programmer that this error occurred. Resubmit the job after the problem is corrected.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

Infoprint Server system completion codes and reason codes

09B completion code

The system completion code for abends that Infoprint Server issues is **09B**. The reason code indicates the component that issued the abend:

00000000 – 00000EA1
> Indicates that IP PrintWay basic mode issued the abend. See "IP PrintWay basic mode system completion code and abend reason codes" on page 93 for an explanation of these codes.

0000FFFF – 00FFFFFF
> Indicates that another Infoprint Server component issued the abend. These codes are explained here.

Table 5 on page 349 describes the reason codes that are displayed in a message or as an abend reason code. These codes can help you determine why an error or abend occurred. The format of the reason code is:

00*xxyyzz*

xx
> Specifies the type or error:
>
> **X'08'**
> > Warning
>
> **X'0C'**
> > Environmental error
>
> **X'10'**
> > System error
>
> **X'14'**
> > Logic error

yy* and *zz
> Describes the reason for the error. See the hexadecimal values in Table 5 on page 349.

Table 5. Infoprint Server reason codes

Reason code yy (hex)	Reason code zz (hex)	Explanation	User or system programmer response
07	01, 02, 03, 04	Another message indicates the cause of the problem.	Read the other messages to see what action is necessary.
08	01, 02, 03, 04	Another message indicates the cause of the problem.	Read the other messages to see what action is necessary.
09	01, 02, 03, 04	Another message indicates the cause of the problem.	Read the other messages to see what action is necessary.
0A	01, 02, 03, 04	Another message indicates the cause of the problem.	Read the other messages to see what action is necessary.
0B	01, 02, 03, 04	Another message indicates the cause of the problem.	Read the other messages to see what action is necessary.
11	01	The Print Interface subsystem had an internal error. The Print Interface subsystem server stopped and restarted.	Resubmit the print job. If the problem recurs, notify your system programmer or IBM service representative.
11	08	The Print Interface subsystem server is busy.	Resubmit the print job later.
12	07, 08	The Print Interface subsystem was not running.	Start the **aopsubd** daemon and resubmit the print job.
14	04	The Print Interface subsystem had an internal error. The Print Interface subsystem server stopped and restarted.	Resubmit the print job. If the problem recurs, notify your system programmer or IBM service representative.
16	01	The region size is too small.	Increase the region size for the print job and resubmit it.
17	01	The application that created the output data used either an unsupported access method or access method function.	Change your application to use either the QSAM or BSAM access method. Use only the OPEN, CLOSE, and PUT functions. Resubmit the print job after the application is changed.
17	07, 08	The Print Interface subsystem was not running.	Restart the Print Interface subsystem and resubmit the print job.
19	04	An error occurred on the application side.	Read the other messages to see what action is necessary.
1C	02	Another message indicates the cause of the problem.	Correct the error and resubmit the print job.
Other codes	Any	A possible logic error exists.	Contact your service representative at the IBM Support Center, or use your electronic link with IBM for assistance.

09C completion code

The system completion code for abends that the AOPCMND command issues when the MVS Message Services macros fail is **09C**. The reason code indicates information about the MVS macro:

- The high-order byte indicates which MVS macro failed:

  01
  > BLDMPB

  02
  > UPDTMPB

  03
  > TRANMSG

  04
  > PUTLINE

  For information about the BLDMPB, UPDTMPB, and TRANMSG macros, see *z/OS MVS Programming: Authorized Assembler Services Guide*. For information about the PUTLINE macro, see *z/OS TSO/E Programming Services*.

- The second byte is the reason code that the macro returned.
- The remaining halfword is the return code from the macro.

Contact your service representative at the IBM Support Center, or use your electronic link with IBM for assistance.

Chapter 3. NetSpool (API) messages and codes

The messages, return codes, and sense codes that the NetSpool started task displays are described here. The NetSpool daemon **aopnetd** issues messages with the AOP prefix. These messages are described in Chapter 2, "Infoprint Server (AOP) messages and codes," on page 123.

API message format

The message identifier is 8-characters followed by *jobname.identifier* and message text:

API*nnnnt jobname.identifier message_text*

API
Identifies NetSpool messages.

nnnn
The message number.

t

Severity code:

A

Operator action is required.

E

An error occurred.

I

Information message.

S

A severe error occurred.

W

A warning situation occurred.

jobname
NetSpool job name or procedure name.

identifier
Identifier for the NetSpool procedure name.

Note: The *jobname.identifier* is not displayed as part of the message in this document. Only the message identifier and message text are shown.

Infoprint Server administrators can use the **aoplogu** command to select messages from the Infoprint Server common message log in a particular time range and copy them to a file or view them on the terminal. For information about the **aoplogu** command, see *z/OS Infoprint Server Operation and Administration*. For information about the information that is returned by **aoplogu**, see "Format of messages in the Infoprint Server common message log" on page 124.

Messages

API0800I   STARTING NETSPOOL

Explanation

NetSpool is started.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0801I   **TERMINATING NETSPOOL**

Explanation

NetSpool is stopping.

System action

NetSpool stops.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0804E   **The timer is not working.**

Explanation

A timer that is used by NetSpool is not working. This might indicate a programming error.

System action

Processing continues.

Operator response

Notify the system programmer.

System programmer response

If this error results in system problems, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0805I   *tcb_id* **TASK ABNORMALLY TERMINATED**

Explanation

A NetSpool ESTAE routine detected that a NetSpool task ended abnormally.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Save the SDUMP if one was taken, and contact your service representative in the IBM Support Center.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0806E   NO PARM FIELD IS SPECIFIED IN THE EXEC STATEMENT.

Explanation

The EXEC statement for NetSpool does not contain the required PARM field.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Correct the EXEC statement and restart the NetSpool task. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0807E   THE PARM LIST IN THE EXEC STATEMENT ENDED ABNORMALLY

Explanation

The operating system was unable to create a parameter list for use by NetSpool. The PARM parameter on the EXEC statement in the NetSpool startup procedure might contain a coding error.

System action

NetSpool processing ends.

Operator response

Notify the system programmer.

System programmer response

Correct any coding errors in the PARM parameter of the EXEC statement in the NetSpool startup procedure. Restart the NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0808E **NO KEYWORD IS SPECIFIED IN THE PARM FIELD IN THE EXEC STATEMENT.**

Explanation

The EXEC statement for NetSpool does not contain a required keyword before the equal sign in the PARM list.

System action

NetSpool processing ends abnormally.

Operator response

None.

System programmer response

Correct the PARM field on the EXEC statement and restart the NetSpool task. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0809E **THE KEYWORD IS TOO LONG: *keyword*.**

Explanation

The EXEC statement for NetSpool contains a keyword in the PARM field that is greater than 8 characters.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Correct the PARM field on the EXEC statement and restart the NetSpool task. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0810E **THE KEYWORD IS NOT VALID: *keyword*.**

Explanation

The EXEC statement for NetSpool contains an incorrect keyword in the PARM field.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Correct the PARM field on the EXEC statement and restart the NetSpool task. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0811I	ERROR WHILE TAKING SDUMP. REASON CODE = *reasoncode*

Explanation

A NetSpool ESTAE routine attempted to take an SDUMP. The reason code indicates the reason for the failure.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

If possible, correct the problem indicated in the reason code.

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0812E	The parameter specified for the keyword is not valid: *keyword*

Explanation

The EXEC statement for the NetSpool task contains a keyword with an incorrect or missing value. This message might be displayed in English even when other messages are translated into a language other than English.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Correct the PARM field on the EXEC statement and restart the NetSpool task. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0814E	No LUCLASS parameter is specified.

Explanation

The PARM field on the EXEC statement does not specify an LUCLASS parameter. This parameter is required.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Correct the PARM field on the EXEC statement and restart the NetSpool task. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0817E	NetSpool is unable to load *module*.

Explanation

An error occurred while the NetSpool program was loading the specified module.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Make sure that the module is a member of a partitioned data set that was specified in the NetSpool startup procedure or that it is in the standard z/OS search order. Also, make sure that sufficient storage is available to load the module.

Problem determination

Not applicable.

Module

Not applicable.

Source:

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0823E	*lu-name* — An undetermined OPEN error occurred for LU, RC = *rc*.

Explanation

An attempt to open a VTAM LU failed for an unknown reason. The value that is returned in the ERROR field of the ACB is displayed in the *rc* portion of this message.

System action

NetSpool does not attempt to reopen the ACB for the VTAM LU.

Operator response

To determine the type of error that occurred, see the description of the OPEN macro, Completion Information section, in *z/OS Communications Server: SNA Programming*. Then, contact the system programmer.

System programmer response

For error code 36 (24 hexadecimal), correct the specified APPL definition. For all other error codes, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0824E	*lu-name* — VTAM does not recognize the LU.

Explanation

The indicated LU name is not recognized by VTAM.

System action

NetSpool periodically (every 60 seconds) attempts to open the VTAM LU.

Operator response

Make sure that the specified LU is defined to VTAM and activated.

System programmer response

Make sure that the LUCLASS parameter on the EXEC statement specifies the correct set of classes. Also, make sure that the LUNAME in the Printer Inventory is correct and that an APPL statement exists for the LU name.

For information about the EXEC statement, see *z/OS Infoprint Server Customization*. For information about the Printer Inventory, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0825E	*lu-name* — LU is in the process of being opened or closed.

Explanation

The specified VTAM LU is being opened or closed.

System action

NetSpool periodically (every 60 seconds) attempts to open the LU.

Operator response

Make sure that the LU is not already being used by another application.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0826E *lu-name* **— LU is already in use by another application.**

Explanation

NetSpool cannot open the requested VTAM LU because the LU is already open, indicating it is being used by another instance of NetSpool.

System action

NetSpool periodically (every 60 seconds) attempts to open the VTAM LU.

Operator response

To delete the LU from the list of LUs selected by this instance of NetSpool, type the LUNAME DEL command. This command prevents NetSpool from periodically attempting to open the LU. For a description of the LUNAME DEL command, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

Make sure that the LUCLASS parameter on the EXEC statement is correct and that the LUCLASS parameter for the LU is correct in the Printer Inventory. Also, make sure that the specified LU is not already being used by another application. For information about the EXEC statement, see *z/OS Infoprint Server Customization*. For information about the Printer Inventory, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0827E *lu-name* **— LU was improperly defined in VTAM definition decks.**

Explanation

A VTAM error occurred while the ACB for this LU was being opened. The error indicates that the VTAM definition statement is not an APPL statement or that the APPL statement contains an inconsistent parameter. For more information, see the explanation of error codes 86 and 104 for the OPEN macro in *z/OS Communications Server: SNA Programming*.

System action

NetSpool ignores the printer LU and does not make additional attempts to open the ACB for the printer LU.

Operator response

Notify the system programmer. Use the LUNAME ADD command to start the printer LU when the problem is corrected. For a description of the LUNAME ADD command, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

Make sure that the LU name parameter in the Printer Inventory is correct and that an APPL statement exists for that LU name. For information about creating an APPL statement for an LU, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0828E   *number* **LUs are not recognized by VTAM**

Explanation

The indicated number of LUs are not recognized by VTAM.

System action

NetSpool periodically (every 60 seconds) attempts to open the LUs.

Operator response

Make sure the LUs are defined to VTAM and activated.

System programmer response

Make sure the LUCLASS parameter on the EXEC statement for NetSpool specifies the correct set of classes. Make sure that the LU names are correct and that APPL statements exist for the LU names.

For information about the EXEC statement, see *z/OS Infoprint Server Customization*. For information about the Printer Inventory, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0829E   *number* **LUs are in the process of being opened or closed.**

Explanation

The indicated number of LUs are being opened or closed.

System action

NetSpool periodically (every 60 seconds) attempts to open the LUs.

Operator response

Make sure the LUs are not already being used by another application.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0830E   *number* **LUs are already in use by another application.**

Explanation

A connection request was received for the indicated number of LUs, which are already active.

System action

NetSpool periodically (every 60 seconds) attempts to open the LUs.

Operator response

Notify the system programmer.

System programmer response

Make sure that the LUCLASS parameter on the EXEC statement specifies the correct classes. Also, make sure the LUs are not already in use by another application. For more information about the EXEC statement, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0831E   *number* **LUs are improperly defined in VTAM definition deck.**

Explanation

NetSpool attempted to start the indicated number of LUs, but a VTAM error occurred when NetSpool attempted to open the ACBs. The VTAM error indicates that the VTAM definition statement is not an APPL statement or that the APPL statement contains an inconsistent parameter. For more information, see the explanation of error codes 86 and 104 for the OPEN macro in *z/OS Communications Server: SNA Programming*.

System action

NetSpool ignores the LUs.

Operator response

After you correct the problem, use the LUNAME ADD command to start the LUs.

System programmer response

Make sure that the LU names in the Printer Inventory are correct and that valid APPL statements exist for these LU names. For information about creating APPL

statements for printer LUs, see *z/OS Infoprint Server Operation and Administration*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0832E   **SETLOGON failed for** *name*

Explanation

An attempt was made to display a SETLOGON START command for an open ACB.

System action

NetSpool closes the ACB and periodically (every 60 seconds) tries the OPEN ACB and SETLOGON commands again.

Operator response

Notify the system programmer.

System programmer response

Make sure that enough storage is available for VTAM.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0833E **VTAM is currently inactive.**

Explanation

The VTAM support on the system is not active.

System action

NetSpool continues to run and periodically (every 60 seconds) tries the VTAM OPEN ACB command again.

Operator response

Make sure that VTAM is active before starting NetSpool.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0834E **VTAM is shutting down**

Explanation

The VTAM support on the system is being shut down.

System action

NetSpool continues to run and periodically (every 60 seconds) tries the VTAM OPEN ACB command again.

Operator response

Reactivate VTAM or stop the NetSpool task.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0835E **No VTAM exists on the system.**

Explanation

The system contains no VTAM support.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Make sure that VTAM is installed before running NetSpool.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0836E   **An error in allocating storage occurred when opening a VTAM LU.**

Explanation

NetSpool encountered a storage allocation error when opening a VTAM printer LU.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Increase the storage allocation for NetSpool on the startup procedure. For more information, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0838E   **NetSpool command specified is not valid.**

Explanation

The MODIFY NetSpool operator command that is entered is not valid.

System action

NetSpool waits for another command.

Operator response

Type a valid NetSpool operator command.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0842I   *lu-name* **ADD succeeded.**

Explanation

The LU that uses the *lu-name* was added to the list of selected printer LUs, and the VTAM ACB was successfully opened.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0843I   *lu-name* **PURGE succeeded.**

Explanation

The printer LU named *lu-name* was purged from the list of printer LUs, and the VTAM ACB was successfully closed.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0850I   **Command accepted**

Explanation

The operator entered a valid operator command, and NetSpool does the requested function.

System action

NetSpool ends processing if the operator entered the QUIT or KILL command.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0900E   **Load of module CEEPIPI failed. Abend code =** *code* **Abend reason code =** *reason code*

Explanation

The NetSpool LOAD of the module CEEPIPI failed.

System action

NetSpool ends processing abnormally.

Operator response

None.

System programmer response

Look up the system abend code that is given in the message. Determine the reason that the LOAD failed and correct the problem. A STEPLIB to the SCEERUN library that contains CEEPIPI might need to be added to the NetSpool startup procedure. For information about the abend code, see *z/OS MVS System Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0901E   **CEEPIPI Init-Sub call failed. Return code =** *return code*

Explanation

The NetSpool call to CEEPIPI to preinitialize the Language Environment® failed.

System action

NetSpool ends processing abnormally.

Operator response

None.

System programmer response

Verify that modules APIIOPN, APIICNV, and APIICLS exist in SYS1.LINKLIB. For information about the return codes for CEEPIPI init_sub, see *z/OS Language Environment Programming Guide*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0902E   **BPX1SDD set_dub_default failed. Return value =** *return value* **Return Code =** *return code* **Reason Code =** *reason code*

Explanation

The NetSpool call to set_dub_default (BPX1SDD) to set the dub default for the Language Environment failed.

System action

NetSpool ends processing abnormally.

Operator response

None.

System programmer response

For information about the return value, return code, and reason code, see *z/OS UNIX System Services Messages and Codes*. For information about set_dub_default, see *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0903E	ICONV open failed for luname = *lu-name*. Document codepage = *codepage* Printer codepage = *codepage* R15 = *callrc*

Explanation

The NetSpool call to open an iconv code conversion session failed. The data cannot be converted into PCL data and sent to the printer.

System action

NetSpool returns negative response 081C0002 and ends the job. NetSpool continues processing jobs for other printers.

Operator response

None.

System programmer response

Verify that the document code page and the printer code page in the message text are correct and valid iconv code pages for this installation. For information about iconv and valid code pages, see *z/OS XL C/C++ Runtime Library Reference*. More information about valid code sets is included in *z/OS XL C/C++ Programming Guide*.

For information about the R15 and CEEPIPI call_sub return codes, see *z/OS Language Environment Programming Guide*.

Message API904E is also displayed and gives any Language Environment error codes. There might also be relevant error messages in the Language

Environment stdout file, usually SYSPRINT in the NetSpool startup procedure. Message API908E might appear.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0904E	CEEPIPI Language Environment error information: Return code = *return code* Reason code = *reason code* Feedback code = *feedback code*

Explanation

The C Language Environment returned an error through CEEPIPI. This message is additional information for message API0903E, API0905E, or API0906E.

System action

See message API0903E, API0905E, or API0906E.

Operator response

None.

System programmer response

For information about the return code and reason code, see *z/OS UNIX System Services Messages and Codes*. Sometimes the enclave return code is a C errno. There might also be relevant error messages in the Language Environment stdout file, usually SYSPRINT in the NetSpool startup procedure, which decodes the error. Message API0908E might appear. For information about the feedback code, see *z/OS*

Language Environment Debugging Guide and *z/OS Language Environment Runtime Messages*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0905E   **ICONV text conversion failed for luname = *printerlu*. Document codepage = *document cp* Printer codepage = *printer cp* R15 = *callrc***

Explanation

The NetSpool call to convert data by using iconv failed. Data cannot be converted into PCL data.

System action

NetSpool returns negative response 081C0002 and ends the job. NetSpool continues processing jobs for other printers.

Operator response

None.

System programmer response

Verify that the document and printer code pages in the message are correct and that they are valid iconv code pages for this installation.

For information about the R15 and CEEPIPI call_sub return codes, see *z/OS Language Environment Programming Guide*. Message API0904E is also displayed and gives any Language Environment error codes. There might also be relevant error messages in the Language Environment stdout file, usually SYSPRINT in the NetSpool startup procedure, which decodes the error. Message API0908E might appear

there. For information about iconv and valid code pages, see *z/OS XL C/C++ Runtime Library Reference*. More information about valid code sets is included in *z/OS XL C/C++ Programming Guide*. Message API0907E might also be displayed to give the code point that failed.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0906E   **ICONV close failed for luname = *printerlu*. R15 = *callrc***

Explanation

The NetSpool call to close the iconv code conversion session failed. The data cannot be converted into PCL data and sent to the printer.

System action

NetSpool continues processing jobs for other printers.

Operator response

None.

System programmer response

For information about the R15 and CEEPIPI call_sub return codes, see *z/OS Language Environment Programming Guide*. Message API0904E is also displayed and gives any Language Environment error codes. There might also be relevant error messages in the Language Environment stdout file, usually SYSPRINT in the NetSpool startup procedure, which decodes the error. Message API908E might appear.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0907E	ICONV text conversion failed for luname = *printerlu*. In_bytesleft = *in_bytesleft* Out_bytesleft = *out_bytesleft* Next_unconverted_char = *char*

Explanation

This message is additional information for message API0905E.

The code point that cannot be converted is next_unconverted_char in this message. The next location in the input buffer and output buffer is also given.

System action

See message API0905E.

Operator response

None.

System programmer response

See message API0905E.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0908E	errno = *errno strerror*

Explanation

This message is additional information for message API0903E, API0905E, or API0906E.

The message is displayed in the C Language Environment and gives the errno for the error encountered. The strerror is the meaning that is given for the errno.

System action

See message API0903E, API0905E, or API0906E.

Operator response

None.

System programmer response

See message API0903E, API0905E, or API0906E.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0920E	A print job failed for NetSpool LU *slu-name*. The UNIX socket connection command *uss-cmd* failed with an errno value of *errno*. Return value = *return value* Return code = *return code* Reason code = *reason code*

Explanation

The UNIX socket command failed. The last command that is issued is (*uss-cmd*) in the message. The command is a UNIX System Services Assembler Callable Service. If the *return* value is X'FFFFFFFF', the *errno* gives the reason for the error. If the *errno* is X'00000000', the NetSpool daemon **aopnetd** had an error and closed the connection early.

In the message text:

slu-name
> The NetSpool LU name of the printer. This is the VTAM secondary LU name.

uss-cmd
> Identifies the UNIX socket command.

errno
> The value of the errno.

return value
> The returned value of the UNIX socket command.

return code
> The return code of the UNIX socket command.

reason code
> The reason code of the UNIX socket command.

System action

NetSpool stops processing the print job.

Operator response

None.

System programmer response

Look for error messages that are issued by NetSpool daemon **aopnetd** and correct the problem.

If you receive this message with `sock_cmd="CONNECT"` repeatedly, the NetSpool daemon might be down. Make sure that **netd** is specified in the **start-daemons** attribute in the Infoprint Server configuration file (`aopd.conf`). Then, start Infoprint Server to start the NetSpool daemon.

If errno = 127, you might not have enough sockets available. If you use transforms, the suggested

maxsockets value is 200. For more information about maxsockets, see *z/OS Infoprint Server Customization*.

For information about the socket command in the message, see *z/OS UNIX System Services Programming: Assembler Callable Services Reference*. For information about the errno value (*errno*) in the message, see *z/OS UNIX System Services Messages and Codes* or *z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0921E	A print job failed for NetSpool LU *slu-name* due to an error in the job attributes: *error*

Explanation

The job was ended because an error in the job attributes was found by the NetSpool daemon **Faopnetd**. See messages that are logged by the NetSpool daemon **aopnetd** for the full message.

In the message text:

slu-name
> The NetSpool LU name of the printer. This is the VTAM secondary LU name.

error
> The first 150 bytes of the error message.

System action

NetSpool ends the job.

Operator response

None.

System programmer response

For more information, look up the *error* message in *z/OS Infoprint Server Messages and Diagnosis*. If job attributes are included in the data stream, run a trace to verify the job attributes that NetSpool received.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0922E	A print job failed for NetSpool LU *slu-name*. The following error was detected while spooling the print job: *error*.

Explanation

The job ended because an error was detected by the NetSpool daemon **aopnetd** while spooling the job to JES. See messages that are logged by the NetSpool daemon **aopnetd** for the full message.

In the message text:

slu-name
   The NetSpool LU name of the printer. This is the VTAM secondary LU name.

error
   The first 150 bytes of the error message.

System action

NetSpool ends the job.

Operator response

None.

System programmer response

For more information, look up the *error* in *z/OS Infoprint Server Messages and Diagnosis*. If job attributes are included in the data stream, run a trace to verify the job attributes that NetSpool received.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0923E	The path of the base directory in the Infoprint Server configuration file contains an error.

Explanation

NetSpool uses the base directory that is specified in file aopd.conf. The base directory must be fewer than 96 characters for NetSpool to correctly connect to the NetSpool daemon aopnetd.

System action

The NetSpool task ends.

Operator response

None.

System programmer response

For information about specifying the base directory in file aopd.conf, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0924E	**Unix System Service command: *uss-cmd* failed with errno = *errno*, , R15 = *hex value*, Return_value = *return value*, Return_code = *return code*, Reason code = *reason code*, User option = *user option*.**

Explanation

A SELECT command or other z/OS UNIX command failed. The request that failed is *uss-cmd* in the message. It is a UNIX System Services Assembler Callable Service. The errno value (*errno*) gives the reason for the error.

In the message text:

uss-cmd
> Identifies the UNIX System Services command.

errno
> The value of the errno.

return value
> The returned value of the UNIX System Services command.

return code
> The return code of the UNIX System Services command.

reason code
> The reason code of the UNIX System Services command.

user option
> The user option of the UNIX System Services command.

System action

NetSpool ends.

Operator response

None.

System programmer response

For information about the *uss-cmd* in the message, see *z/OS UNIX System Services Programming Tools*. For information about the errno value (*errno*) in the message, see *z/OS UNIX System Services Messages and Codes*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0925E	**A print job failed for NetSpool LU *slu-name*. The socket descriptor returned was too long. Socket Descriptor = *socket descriptor value*.**

Explanation

NetSpool does not create a print job because the socket descriptor for the connection to the NetSpool daemon **aopnetd** is too large.

In the message text:

slu-name
> The NetSpool LU name of the printer. This is the VTAM secondary LU name.

socket descriptor value
> The value of the Socket Descriptor.

System action

NetSpool ends the job.

Operator response

None.

System programmer response

NetSpool requires that the socket descriptor is less than 2047.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0926E   **A print job failed for NetSpool LU *slu-name*. NetSpool cannot access file in base-directory: *path***

Explanation

The job was ended because NetSpool does not have permission to access the *path* directory that is defined in aopd.conf. Message API0920E is also issued.

In the message text:

slu-name
    The NetSpool LU name of the printer. This is the VTAM secondary LU name.

path
    The path of the directory.

System action

NetSpool ends the job.

Operator response

None.

System programmer response

Make sure the user ID associated with the NetSpool started task is a z/OS UNIX ID and has permission to read and write to the Infoprint Server base directory. The base directory is specified in the Infoprint Server configuration file aopd.conf.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0927E   **Unix System Service command: *uss-cmd* failed with errno = *errno*, Return_value = *return value*, Return_code = *return code*, Reason_code = *reason code*.**

Explanation

An OPEN command or other z/OS UNIX command failed. In the message text:

uss-cmd
    The UNIX System Services command that failed.

errno
    The value of the errno.

return value
    The returned value of the UNIX System Services command.

return code
    The return code of the UNIX System Services command.

reason code
    The reason code of the UNIX System Services command.

System action

NetSpool continues.

Operator response

None.

System programmer response

For information about the *uss-cmd* in the message, see *z/OS UNIX System Services Programming: Assembler Callable Services Reference*. For information about the errno value (*errno*) in the message, see *z/OS UNIX System Services Messages and Codes*.

These actions might correct the problem:

- Make sure that the **base-directory** attribute in the Infoprint Server configuration file (`aopd.conf`) is correct. The default location of the configuration file is `/etc/Printsrv/aopd.conf`.
- Run the **aopsetup** shell script to set permissions. For information about how to run **aopsetup**, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0928E　　**The failing NetSpool started task Jobname path is: *jobname.path*.**

Explanation

NetSpool cannot create file *jobname.path* for the NetSpool started task.

System action

NetSpool continues.

Operator response

None.

System programmer response

See messages API0927E and API0930E because the file cannot be created.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0929E　　**NetSpool cannot access files in base-directory.**

Explanation

NetSpool does not have permission to access the base directory in the Infoprint Server configuration file (`aopd.conf`). Messages API0927E and API0928E are also issued.

System action

NetSpool continues.

Operator response

None.

System programmer response

Make sure the user ID associated with the NetSpool started task is a z/OS UNIX user and has permission to read and write to the Infoprint Server base directory. The base directory is specified in the Infoprint Server configuration file (`aopd.conf`). Correct the access problem and then stop and restart the NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0930E　　　**The NetSpool daemon has not been started.**

Explanation

The NetSpool daemon, **aopnetd**, was not started. You must start the NetSpool daemon before you start the NetSpool task. Messages API0927E and API0928E are also issued.

System action

NetSpool continues. However, NetSpool cannot receive print data from VTAM applications until the problem is corrected.

Operator response

None.

System programmer response

Add **netd** to the values in the **start-daemons** attribute in the Infoprint Server configuration file (aopd.conf), and then start the NetSpool daemon. After you start the NetSpool daemon, stop and restart the NetSpool task.

For more information about how to start and stop the NetSpool daemon and task, see *z/OS Infoprint Server Operation and Administration*.

User response

Notify the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0950E　　　**SCS data stream contains a character that is not valid.**

Explanation

NetSpool detected either an unsupported SCS command or data that was not valid in an SCS string. Message API0954I provides additional information about the error.

If message API0954I indicates that character X'19' is not valid, your input data stream is probably a 3270 data stream and not an SCS data stream. Because the NetSpool printer LU is defined as an LU type 1, NetSpool processes the data stream as an SCS data stream. If your data stream is a 3270 data stream, you must change the NetSpool LU type to type 0 or type 3 in the VTAM major node definitions and in the application's resource definitions.

System action

NetSpool returns a negative response. If the error was an unsupported SCS command, the sense code returned a response of X'10030000'. If the error was caused by data that was not valid in a DBCS string in the SCS data, the sense code returned a response of X'10010000'.

Operator response

None.

System programmer response

For other errors, obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

To determine the error and correct the input data, see the NetSpool SCS information in *z/OS Infoprint Server User's Guide* and the information from message API0954I.

To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

If the character that is not valid is X'19', change the NetSpool LU type from LU type 1 to LU type 0 or 3 in the VTAM major node definitions and in the application's resource definitions.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0951E	SCS control code parameter is missing or not valid.

Explanation

NetSpool detected either an unsupported or a missing parameter for an SCS control code. Message API0954I provides additional information about the error.

System action

NetSpool returns a negative response with a sense code of X'10050000'.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting

a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

To determine the error and correct the input data, see the NetSpool SCS information in *z/OS Infoprint Server User's Guide* and the information from message API0954I. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0952E	3270 data stream command or order is not valid.

Explanation

NetSpool detected an unsupported or incorrect command or order in the 3270 data stream. Message API0954I provides additional information about the error.

System action

NetSpool returns a negative response with a sense code of X'10030000'.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the

trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

To determine the error and correct the input data, see the NetSpool 3270 information in *z/OS Infoprint Server User's Guide* and the information from message API0954I. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0953E   **3270 data stream parameter is not valid.**

Explanation

NetSpool detected an unsupported or incorrect parameter for an order in the 3270 data stream. Message API0954I provides additional information about the error.

System action

NetSpool returns a negative response with a sense code of X'10050000'.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the

trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

To determine the error and correct the input data, see the NetSpool 3270 information in *z/OS Infoprint Server User's Guide* and information from message API0954I. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0954I   **Code point: *hex-value* Offset: *nnnn* LU: *lu-name***

Explanation

Additional information is provided about the error in the data stream. The code point is the hex value of the data in error. Offset is the decimal offset, if available, of the code point in the request unit (RU). If the offset is not available, *nnnn* is zero. LU is the printer LU name. A previous message indicates the error.

If the code point that is not valid is X'19', your input data stream is probably a 3270 data stream and not an SCS data stream. Because the NetSpool printer LU is defined as an LU type 1, NetSpool processes the data stream as an SCS data stream. If your data stream is a 3270 data stream, you must change the NetSpool LU type to type 0 or type 3 in the VTAM major node definitions and in the application's resource definitions.

System action

See a previous error message for the action that is taken by NetSpool.

Operator response

None.

System programmer response

If the code point that is not valid is X'19', change the NetSpool LU type from LU type 1 to LU type 0 or 3 in the VTAM major node definitions and the application's resource definitions.

Otherwise, obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

Correct the error indicated in a previous error message. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0955E   **Transparent data is incomplete at end of data set. LU:** *lu-name*

Explanation

The end of file was reached before the end of the transparent data in the data stream. The transparent

data length might be incorrect or the End-of-File rule for this LU might be ending the data set prematurely.

System action

NetSpool returns a negative response with a sense code of X'10050000'.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

Correct the input data if the transparent data length is incorrect. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0956E   **NetSpool attempted to print a line above the top margin. PLU:** *plu-name* **SLU:** *slu-name*

Explanation

NetSpool attempted to print a line in an area that is above the line number that is specified as the top margin.

In the message text, *plu-name* is the VTAM primary logical unit name, which identifies the VTAM application that submitted the print request. *slu-name* is the VTAM secondary LU name, which identifies the NetSpool printer LU. The SLU name is the NetSpool LU name that is specified in the printer definition that is used to print the job.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0957E   **NetSpool attempted to print characters before the left margin column. PLU: *plu-name* SLU: *slu-name***

Explanation

NetSpool attempted to print characters in an area that is to the left of the column number that is specified as the left margin.

In the message text, *plu-name* is the VTAM primary logical unit name, which identifies the VTAM application that submitted the print request. *slu-name* is the VTAM secondary LU name, which identifies the

NetSpool printer LU. The SLU name is the NetSpool LU name that is specified in the printer definition that is used to print the job.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0958E   **An error occurred while processing page format parameters.**

Explanation

An error occurred while NetSpool was processing page format parameters either from the printer inventory or SCS command. The message is followed by more messages that explain the problem: API0959E, API0960E, and API0961E.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0959E	Set Horizontal Format or Set Vertical Format are not specified in the parameters. PLU: *plu-name* SLU: *slu-name*

Explanation

The page format parameters do not specify horizontal or vertical format.

In the message text, *plu-name* is the VTAM primary logical unit name, which identifies the VTAM application that submitted the print request. *slu-name* is the VTAM secondary LU name, which identifies the NetSpool printer LU. The SLU name is the NetSpool LU name that is specified in the printer definition that is used to print the job.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0960E	Set Horizontal Format parameter is not valid: Parameter type:*type* PLU: *plu-name* SLU: *slu-name*

Explanation

The parameter type (CNT, LM, RM, or HT) specifies the parameter in error.

In the message text, *plu-name* is the VTAM primary logical unit name, which identifies the VTAM application that submitted the print request. *slu-name* is the VTAM secondary LU name, which identifies the NetSpool printer LU. The SLU name is the NetSpool LU name that is specified in the printer definition that is used to print the job.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0961E	Set Vertical Format parameter is not valid: Parameter type: *type* PLU: *plu-name* SLU: *slu-name*

Explanation

The parameter type (CNT, LM, RM, or HT) specifies the parameter in error.

In the message text, *plu-name* is the VTAM primary logical unit name, which identifies the VTAM application that submitted the print request. *slu-name* is the VTAM secondary LU name, which identifies the NetSpool printer LU. The SLU name is the NetSpool LU name that is specified in the printer definition that is used to print the job.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0962I	The code point in error is used in 3270 data streams. It is not valid in SCS data streams in the LU type 1 session.

Explanation

The code point is not valid for SCS data streams in LU type 1 sessions. The character X'19' is valid only in 3270 data streams.

System action

NetSpool returns a negative response.

Operator response

None.

System programmer response

Change the NetSpool LU type from LU type 1 to LU type 0 or 3 in the VTAM major node definitions and in the application's resource definitions, or change the application to format the print data for SCS data streams.

User response

Check the application to see whether the output is intended for 3270 data streams instead of SCS data streams.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0963E   **An error occurred while processing a job attribute text string: PLU: *plu-name* SLU: *slu-name***

Explanation

An error occurred while NetSpool was processing the job attribute text string in the data stream. Additional messages explain the error.

In the message text:

plu-name
  The VTAM primary logical unit name, which identifies the VTAM application that submitted the print request.

slu-name
  The VTAM secondary LU name, which identifies the NetSpool printer LU. The SLU name is the NetSpool LU name that is specified in the printer definition that is used to print the job.

System action

NetSpool stops processing for this data set.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

Correct the application that sends the attribute data in the data stream. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0964E   **The continuation field in the job attribute text string is not valid.**

Explanation

The continuation field in the job attribute text string is not X'F0' or X'F1'. Message API0968I provides additional information about the error.

System action

NetSpool stops processing for this data set.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

Correct the application that sends the attribute data in the data stream. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0965E	The length field in the job attribute text string is not valid.

Explanation

The length field in the job attribute text string is not a valid number. Each digit must be a value between X'F0' and X'F9'. Message API0968I provides additional information about the error.

System action

NetSpool stops processing for this data set.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

Correct the application that sends the attribute data in the data stream. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0966E	The owner attribute in the job attribute text string is not valid.

Explanation

The syntax of the **owner** attribute in the job attribute text string is not correct. The value might be too long or might be missing. Message API0967I provides additional information about the error.

System action

NetSpool stops processing for this data set.

Operator response

None.

System programmer response

Obtain a NetSpool external trace to help find an error in the input data stream. For information, see "Starting a NetSpool trace" on page 478. Then, view or print the trace by using the General Trace Facility (GTF) with event identifier FAC.

User response

Correct the application that sends the attribute data in the data stream. To help find an error in the input data stream, ask your system programmer to obtain a NetSpool external trace.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0967I Hex display of owner attribute string: *X'hex-data'.*

Explanation

This message is additional information for message API0966E.

The incorrect **owner** attribute is shown in hexadecimal format.

System action

See message API0966E.

Operator response

None.

System programmer response

See message API0966E.

User response

See message API0966E.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0968I Hex display of job attribute text string header: *X'hex-data'.*

Explanation

This message is additional information for messages API0964E and API0965E.

The header that contains the incorrect continuation field or length field is shown in hexadecimal format.

System action

See message API0964E or API0965E.

Operator response

None.

System programmer response

See message API0964E or API0965E.

User response

See message API0964E or API0965E.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0969E The document-codepage attribute in the job attribute text string is not valid.

Explanation

The **document-codepage** attribute syntax is not correct. The attribute value might be too long or might be missing. A message follows that identifies the error.

System action

NetSpool stops processing for this data set.

Operator response

Notify the system programmer.

System programmer response

Correct the data in the data stream.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0970I **NetSpool recovered from an incorrect event counter.**

Explanation

NetSpool corrected the number of events in an internal queue. This message can indicate a logic problem in NetSpool.

System action

Processing continues.

Operator response

Notify the system programmer.

System programmer response

If this message occurs repeatedly, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0971W **NetSpool module APIPPQPD recovered from an unexpected condition. Socket: *socket* PLU: *plu-name* SLU: *slu-name* Retry action: *action-code* Diagnostics: *error-information***

Explanation

NetSpool module APIPPQPD received an unexpected request for the job. To process the request, it reused an event for a not-ready socket. This message can indicate a logic problem in NetSpool.

If you receive this message together with message API0972W, the same condition caused both messages.

In the message text:

- *socket* is the number of the UNIX socket in decimal.
- *plu-name* is the VTAM primary logical unit (LU) name. It identifies the VTAM application program that submitted the print request.
- *slu-name* is the VTAM secondary logical unit (LU) name. It identifies the NetSpool printer LU. This LU name is specified in the printer definition for the printer.
- *action-code* is an internal code that identifies the UNIX socket command to be tried again.
- *error-information* is error information in hexadecimal that can help IBM diagnose the problem.

System action

Processing continues.

Operator response

Notify the system programmer.

System programmer response

If this message occurs repeatedly, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0972W   **NetSpool module APIJRTRY recovered from an unexpected condition. Socket:** *socket* **PLU:** *plu-name* **SLU:** *slu-name* **Retry action:** *action-code* **Diagnostics:** *error-information*

Explanation

NetSpool module APIJRTRY discovered that an event in its internal EWB queue was reused. NetSpool cannot try the action again for the socket, which is ready. This message can indicate a logic problem in NetSpool.

If you receive this message together with message API0971W, the same condition caused both messages.

In the message text:

- *socket* is the number of the UNIX socket in decimal.
- *plu-name* is the VTAM primary logical unit (LU) name. It identifies the VTAM application program that submitted the print request.
- *slu-name* is the VTAM secondary logical unit (LU) name. It identifies the NetSpool printer LU. This LU name is specified in the printer definition for the printer.
- *action-code* is an internal code that identifies the UNIX socket command to be tried again.
- *error-information* is error information in hexadecimal that can help IBM diagnose the problem.

System action

Processing continues.

Operator response

Notify the system programmer.

System programmer response

If this message occurs repeatedly, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

User response

Notify the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API0973I   **NetSpool diagnostic information for** *module* **:** *variable* **= X** *value*

Explanation

The diagnostic information in this message can help IBM determine the cause of an unexpected condition.

In the message text:

- *module* is the name of a NetSpool module.
- *variable* is the name of a NetSpool internal variable.
- *value* is the hexadecimal value of the variable.

System action

Processing continues.

Operator response

Notify the system programmer.

System programmer response

Provide the information in this message to your IBM service representative.

User response

Notify the system programmer.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1001I   *lu-name* — **LU is NOT SELECTED.**

Explanation

The indicated VTAM LU is not selected for processing by this instance of NetSpool. Verify that the printer logical unit that uses this LU name is in an LU class that was started. You can use Infoprint Central or the LUNAME ADD command to add this LU to the list of selected LUs.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1002I   *lu-name* — **LU IS STARTED SESSION={ACTIVE | INACTIVE} {PRINTERNAME | POOLNAME}=***name* **LUTYPE={0 | 1 | 3} PLU=***name* **EOFRULE={EB | EC | ES | TIMER | STRING}.**

Explanation

This message is displayed in response to DISPLAY LUNAME NetSpool operator command. The indicated VTAM LU name is started in NetSpool. The LU is either in a VTAM session or is ready to accept a request to establish a VTAM session. The rest of the message contains information that can help you diagnose problems with NetSpool LUs, VTAM definitions, and VTAM application programs. The information can include:

• SESSION=*status*

  The indicator of whether the VTAM session with NetSpool is established (ACTIVE) or not established (INACTIVE). The session status can help you diagnose problems when you are not sure if a primary logical unit (PLU) established a session with the NetSpool printer LU.

• PRINTERNAME=*printer-definition-name* or POOLNAME=*printer-pool-definition-name*

  The name of the printer definition or printer pool definition for this LU. The printer definition name can help you diagnose problems when you need to determine which printer definition contains the NetSpool items that are associated with the LU, such as end-of-file rules and formatting options.

• LUTYPE=*lu-type*

The type of LU (0, 1, or 3). For active sessions, you see the current LU type. For inactive sessions, you see the LU type of the previous session. If a session is not established, you do not see this information. The LU type can help you diagnose problems when you see a NetSpool data stream message or when you are trying to change the page format. NetSpool does not control page formatting for 3270 data streams (LU0 and LU3) or when `netspool-formatting=none`.

- PLU=*plu-name*

  The name of the primary logical unit. For active sessions, you see the current PLU name. For inactive sessions, you see the PLU name of the previous session. If a session is not established, you do not see this information. The PLU name can help you diagnose problems when more than one VTAM application prints on the LU and a print request is in error.

- EOFRULE=*rule*

  The End of File rule that NetSpool is using (End-of-bracket (EB), End-of-chain (EC), End-of-session (ES), String, or Timer). The EOF rule can help you diagnose problems when jobs do not close on the spool or when print requests are separated into several jobs.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1003I *lu-name* — **LU IS WAITING.**

Explanation

The indicated VTAM LU cannot be started because either the LU is not active in VTAM or because it is started by another instance of NetSpool. NetSpool periodically (every 60 seconds) attempts to start the LU.

System action

Processing continues.

Operator response

To start the LU, activate it in VTAM. To stop the LU, enter the LUNAME DEL command. If the LU is started by another instance of NetSpool, stop it in the other instance of NetSpool and then activate it in VTAM again. For information about the operator commands that are used to start and stop LUs, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1004I **Display of LUs in the STARTED state.**

Explanation

The operator requested the display of all VTAM LUs started by this instance of NetSpool. Subsequent messages display the LUs that are either in a session with a VTAM application or are ready to accept a request from a VTAM application to establish a session. LUs are displayed in the order in which they were activated.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1005I	Display of LUs in the WAITING state.

Explanation

The operator requested the display of all LUs that are in the WAITING state. Subsequent messages display the LUs that are selected but cannot be started because either they are not active in VTAM or because they are started by another instance of NetSpool. LUs are displayed in the order in which they were activated.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1006I	*lu-name* - LU is STOPPED.

Explanation

The indicated VTAM printer LU is STOPPED because the LUNAME DEL command was previously displayed. This printer LU is not used by this instance of NetSpool until an LUNAME ADD command is displayed.

System action

Processing continues.

Operator response

To start the printer LU, activate it in VTAM. To stop the printer LU, enter the LUNAME DEL command. If the printer LU is started by another instance of NetSpool, stop it in the other instance of NetSpool and then activate it in VTAM again. For more information about the operator commands that are used to start and stop printer LUs, see *z/OS Infoprint Server Operation and Administration*.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1007I	Display of LUs in the STOPPED state

Explanation

The operator requested the display of all printer LUs that are in the STOPPED state. Subsequent messages display the printer LUs that are stopped by use of the LUNAME DEL command. These printer LUs are not started by this instance of NetSpool until an LUNAME ADD command is displayed.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1008I	Display of SELECTED LUs

Explanation

The operator requested the display of all LUs that are selected by this instance of NetSpool. Subsequent messages display the status of the LUs. The status can be either STARTED or WAITING. For an explanation of the two states, see *z/OS Infoprint Server Operation and Administration*. LUs are displayed in the order in which they were activated.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1009E   **NetSpool is not running APF authorized.**

Explanation

NetSpool must be running authorized to run properly. NetSpool stops. The load library for NetSpool must be an APF-authorized library.

System action

NetSpool stops.

Operator response

None.

System programmer response

Place the NetSpool load libraries in an APF-authorized library. Also, make sure that all libraries in the JOBLIB or STEPLIB are APF-authorized. Restart the NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1010E   **NetSpool was not able to connect to the Printer Inventory. Inventory return code = *retcode*, Inventory reason code = *reason code***

Explanation

NetSpool must be able to connect to the Printer Inventory specified in the INV=*xxxx* startup parameter. The return code and reason code that the

Printer Inventory Manager displays indicate the reason for the failure. For explanations about Printer Inventory Manager return and reason codes, see Chapter 4, "Printer Inventory Manager return codes and reason codes," on page 417.

System action

NetSpool stops.

Operator response

None.

System programmer response

Correct the Printer Inventory Manager error. Restart the NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1011E   **NetSpool was not able to read printer *printer-name* from the Printer Inventory. Inventory return code = *retcode* Inventory reason code = *reason code***

Explanation

NetSpool was not able to read from the Printer Inventory specified in the INV=*xxxx* startup parameter. The return code and reason code that the Printer Inventory Manager displays indicate the reason for the failure. For explanations about Printer Inventory Manager return and reason codes, see Chapter 4, "Printer Inventory Manager return codes and reason codes," on page 417.

System action

NetSpool stops.

Operator response

None.

System programmer response

Correct the Printer Inventory Manager error. Restart the NetSpool task.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1012E	INV startup parameter was not specified.

Explanation

NetSpool initialization parameter INV was not specified in the PARM field in the EXEC statement in the NetSpool startup procedure.

System action

NetSpool stops.

Operator response

None.

System programmer response

Add the INV parameter to the PARM field in the EXEC statement in the NetSpool startup procedure and

restart the NetSpool task. For more information about the NetSpool startup procedure, see *z/OS Infoprint Server Customization*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1013E	Unable to access Printer Inventory during NetSpool initialization. NetSpool will terminate.

Explanation

An error occurred while attempting to read from the Printer Inventory during NetSpool initialization.

System action

NetSpool stops.

Operator response

None.

System programmer response

Examine previous NetSpool messages to determine the exact problem with accessing the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1014E   NetSpool will continue processing with previously cached printer definitions.

Explanation

An error occurred while attempting to read from the Printer Inventory. NetSpool attempts to continue processing with previously cached printer definitions. If processing requires new printer definitions, you might experience processing errors.

System action

NetSpool continues processing.

Operator response

None.

System programmer response

Examine previous NetSpool messages to determine the exact problem with accessing the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1015I   NetSpool access to the inventory has been reestablished.

Explanation

NetSpool access to the Printer Inventory is reestablished. NetSpool can access the current printer definitions again.

System action

NetSpool continues processing.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1016E   NetSpool was not able to open a query to the Printer Inventory. Inventory return code = *retcode* **Inventory reason code =** *reason code*

Explanation

NetSpool was not able to open a cursor from the Printer Inventory specified in the INV=*xxxx* startup parameter. The return code and reason code that the Printer Inventory Manager displays indicate the reason for the failure. For explanations about Printer

Inventory Manager return and reason codes, see Chapter 4, "Printer Inventory Manager return codes and reason codes," on page 417.

System action

NetSpool stops if this error occurs during initialization. NetSpool continues processing with the currently cached information from the Printer Inventory if NetSpool completed initialization processing.

Operator response

Not applicable.

System programmer response

Correct the Printer Inventory Manager error. Restart the NetSpool task.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1017E   **NetSpool was not able to read printer name *printer-name* from the Printer Inventory. Inventory return code = *retcode* Inventory reason code = *reason code***

Explanation

NetSpool was not able to read from the Printer Inventory specified in the INV=*xxxx* startup parameter. The return code and reason code that the Printer Inventory Manager displays indicate the reason for the failure. For explanations about Printer

Inventory Manager return and reason codes, see Chapter 4, "Printer Inventory Manager return codes and reason codes," on page 417.

System action

NetSpool continues to process with previously cached information from the Printer Inventory.

Operator response

None.

System programmer response

Correct the Printer Inventory Manager error. Restart the NetSpool task.

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1021I   **NetSpool initialization is complete.**

Explanation

NetSpool initialization is complete. NetSpool is now ready to accept commands and input data streams.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1030E   **LUNAME** *lu-name* **is still in use. ADD of LUNAME was rejected.**

Explanation

The indicated printer LU is already in use by this instance of NetSpool. The printer LU might have been assigned to another printer at one time. To force the LU to be freed from its previous session, enter the LUNAME PURGE command.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1031E   **LUNAME** *lu-name* **was not found in the Printer Inventory. ADD of LUNAME was rejected.**

Explanation

The indicated LU name was not found in the Printer Inventory in use by this instance of NetSpool.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1032E   **LUNAME** *lu-name* **was not found. DEL of LUNAME was rejected.**

Explanation

The indicated LU name was not found.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1033I	LUNAME *lu-name* DEL was successful.

Explanation

The indicated LU name was deleted from this instance of NetSpool.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1034I	LUNAME *lu-name* is still active. The LU is now PENDING CLOSE.

Explanation

The indicated LU name currently has an active session. It is closed and deleted when the session ends. The LUNAME PURGE command can be used to force NetSpool to end the session immediately.

The VTAM VARY INACT command can also be used to deactivate the session. When the LU is inactive, enter the LUNAME DEL command again.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1035I   **ADD of LUNAME** *lu-name* **was rejected.**

Explanation

A previous processing error caused the LUNAME ADD command to fail.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1036I   **LUNAME** *lu-name* **is not a SELECTED luname. PURGE of LUNAME was rejected.**

Explanation

The indicated LU name was not found in the list of active LUs for this instance of NetSpool.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1050I   *lu-name*—**LU is PENDING CLOSE.**

Explanation

The indicated VTAM LU is pending close. It is closed when the current session is complete.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1051I   No LUs are currently SELECTED.

Explanation

No VTAM LUs are currently selected for processing by this instance of NetSpool. NetSpool automatically selects LUs that were defined in started LU classes. LU classes are started through the LUCLASS parameter on the NetSpool JCL PROC.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1052I   No LUs are currently WAITING.

Explanation

No VTAM LUs are currently waiting to be started. All selected LUs are already started.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source:
Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1053I   No LUs are currently STARTED.

Explanation

No VTAM LUs are currently started by this instance of NetSpool. The DISPLAY WAITING command can be used to determine whether NetSpool is attempting to start any LUs.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1054I   No LUs are currently STOPPED.

Explanation

No VTAM LUs currently are in a state of STOPPED by this instance of NetSpool. The DISPLAY WAITING command can be used to determine whether NetSpool is attempting to start any VTAM LUs.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1060I   Tracing is not active.

Explanation

Tracing is not currently active for NetSpool. Use the TRACE ON command to activate internal or external tracing.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1061I   Full tracing is active for program control.

Explanation

Internal and external tracing of NetSpool program control is active.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1062I   Internal tracing is active for program control.

Explanation

Only internal tracing of NetSpool program control is active.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1063I   Full tracing is active for all LUs.

Explanation

External and internal tracing of all LUs being processed by NetSpool is active.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1064I   **Internal tracing is active for all LUs.**

Explanation

Only internal tracing of all LUs being processed by NetSpool is active.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1065I   **Full tracing is active for LU *lu-name*.**

Explanation

External and internal tracing is active for the listed LU name.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API1066I   **Internal tracing is active for LU *lu-name*.**

Explanation

Only internal tracing is active for the listed LU name.

System action

Processing continues.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2001E   **FAILED TO LOAD MESSAGE TABLE** *name***.**

Explanation

Messaging cannot load the message table into storage. Either the table was not found in the STEPLIB/ LINKLIST concatenation or the available virtual storage was not sufficient to load the table.

System action

Messaging is not available. The task is ended.

Operator response

Select the correct language when starting the NetSpool task.

System programmer response

Make sure that the correct 3-character language code is in the startup JCL and that the message table is in a library in the load module library search list (STEPLIB/ LINKLIST). The message table is named APIMT*xxx*, where *xxx* is the language code.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2002E   **UNABLE TO CREATE MESSAGE TABLE TOKEN** *name***.**

Explanation

Messaging cannot create the named token that contains the message table anchor.

System action

Messaging is not available. The task is ended.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2003I   **UNABLE TO RETRIEVE MESSAGE TABLE** *name***.**

Explanation

Messaging cannot retrieve the named token that contains the message table anchor.

System action

NetSpool stops.

Operator response

Notify the system programmer.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2004E	UNABLE TO DELETE MESSAGE TABLE FROM STORAGE *name*

Explanation

Messaging cannot delete the message table from storage during shutdown.

System action

Shutdown continues.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2005E	UNABLE TO DELETE MESSAGE TABLE TOKEN *name*

Explanation

Messaging cannot delete the named token that contains the message table anchor.

System action

Not applicable.

Operator response

Notify the system programmer.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2006E   **NETSPOOL INTERNAL ERROR TOKEN** *function code***.**

Explanation

An unknown function code was sent to messaging initialization routine. This is an internal error.

System action

The task is ended.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2007E   **UNABLE TO RETRIEVE MESSAGE TABLE TOKEN** *name*

Explanation

Messaging cannot retrieve the named token that contains the message table anchor.

System action

Messaging is ended.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2008E   **UNABLE TO OBTAIN** *nnnn* **BYTES OF STORAGE FOR MESSAGE DCB.**

Explanation

Messaging cannot obtain storage below 16 MB for the message file DCB.

System action

Messaging is ended.

Operator response

Rerun in a larger region.

System programmer response

If the error condition persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2009E	FAILED TO LOAD MESSAGE I/O MODULE *name*.

Explanation

Messaging cannot load the message I/O program into storage. Either the module was not found in the STEPLIB/LINKLIST or the available virtual storage was not sufficient to load the module.

System action

Messaging is not available. The task is ended.

Operator response

Notify the system programmer.

System programmer response

Make sure that APIMSGIO, the message I/O module, is in a library in the load module library search list (STEPLIB/LINKLIST).

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API2010I	UNABLE TO DELETE MESSAGE I/O MODULE FROM STORAGE *name*

Explanation

Messaging cannot delete the message I/O module from storage during termination.

System action

The termination task continues.

Operator response

Notify the system programmer.

System programmer response

Contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4001E	The trace options data set could not be opened.

Explanation

NetSpool cannot open the trace options data set. Make sure that the name of the DD statement is correct and refers to the correct data set.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Correct the error and restart the NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4002E   No data was found in trace options data set.

Explanation

No trace options were found in the trace options data set. Make sure that the correct data set is specified on the TRACEOPT DD statement in the NetSpool startup procedure.

System action

NetSpool processing ends abnormally.

Operator response

Notify the system programmer.

System programmer response

Create a valid data set and specify it in the TRACEOPT DD statement in the NetSpool startup procedure. Then, restart the NetSpool task.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4005E   A keyword is not valid.

Explanation

A keyword in the trace options data set is not valid. For more information, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4006E　　　No value follows the keyword

Explanation

A keyword in the trace options data set does not contain a value after the equal sign. For more information, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4007E　　　A list of values ended prematurely.

Explanation

No matching right parentheses was found for the list of values in the trace options data set. For information about how to code a list of values, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Add a matching right parenthesis.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4013E　　　The numeric value is not valid.

Explanation

A parameter in the trace options data set contains a value that is not numeric or is out of the valid range. Message API4901I indicates where the error occurred. For more information, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4014E   The value contains a character that is not valid.

Explanation

The value for a parameter in the trace options data set contains an incorrect character. Message API4901I indicates where the error occurred. For more information, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4017E   The value is too long

Explanation

A value for a keyword in the trace options data set exceeds the maximum number of characters allowed. Message API4901I indicates where the error occurred. For more information, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4018E   **Too many values are specified for this keyword**

Explanation

A keyword in the trace options data set contains too many values. Message API4901I indicates where the error occurred. For more information, see Chapter 9, "Using NetSpool diagnostic tools," on page 477.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4021E   **NetSpool could not find a printer definition for member name: *printer-name*.**

Explanation

The printer definition for the indicated printer pool member name was not found in the Printer Inventory in use by this instance of NetSpool.

System action

NetSpool stops processing the data set.

Operator response

Notify the system programmer.

System programmer response

Make sure that the printer pool member name is correct and is included in the Printer Inventory.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4102E   **GETMAIN failed for trace blocks.**

Explanation

Not enough storage is available for NetSpool to provide tracing.

System action

NetSpool processing continues without tracing.

Operator response

Notify the system programmer.

System programmer response

Increase the size on the REGION parameter of the EXEC statement in the NetSpool startup procedure.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API4901I   **Record: *nnnn*, OFFSET: *nn* contains the error.**

Explanation

NetSpool detected an error in the indicated trace options data set at the indicated offset. A previous message describes the error.

System action

If this error occurs during startup of NetSpool, NetSpool ends abnormally.

Operator response

After the system programmer corrects the data set, restart the NetSpool task.

System programmer response

Correct the data set.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5000E   **NetSpool found a trace options error.**

Explanation

NetSpool detected an error in the trace options data set or in the TRACE operator command. Subsequent messages provide more specific information about the error.

System action

If this error occurs on the trace options data set during NetSpool initialization, NetSpool ends abnormally. If this error occurs when the TRACE command is entered from the operator console, tracing of the NetSpool program control is started, but other trace options might not take effect.

Operator response

If the error is in the TRACE command that is entered from the operator console, correct the error indicated in the subsequent error message. Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

If the error is in the trace options data set, correct the error indicated in the subsequent error message and start NetSpool again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5001E   A name following the LUNAME keyword is too long.

Explanation

NetSpool detected an error in the trace options data set or in the TRACE operator command. An LU name that is specified with the LUNAME keyword is too long.

System action

If this error occurs on the trace options data set during NetSpool initialization, NetSpool ends abnormally. If this error occurs when the TRACE command is entered from the operator console, tracing of the NetSpool program control is started, but other trace options might not take effect.

Operator response

If the error is in the TRACE command that is entered from the operator console, correct the error. Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

If the error is in the trace options data set, correct the error and start NetSpool again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5002E   A parameter specified after the TYPE keyword is not valid.

Explanation

NetSpool detected an error in the trace options data set or in the TRACE operator command. INTERNAL or FULL was not specified after the TYPE keyword.

System action

If this error occurs on the trace options data set during NetSpool initialization, NetSpool ends abnormally. If this error occurs when the TRACE command is entered from the operator console, tracing of the NetSpool program control is started, but other trace options might not take effect.

Operator response

If the error is in the TRACE command that is entered from the operator console, correct the error. Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

If the error is in the trace options data set, correct the error and start NetSpool again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5003I   NetSpool tracing is active.

Explanation

NetSpool internal tracing is active for the program control and the LUs specified in the trace options.

System action

Processing continues.

Operator response

Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5004I   External tracing to GTF has started.

Explanation

NetSpool started tracing externally to GTF for the program control and for the LUs specified in the trace options.

System action

Processing continues.

Operator response

Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5005I   Issue the DISPLAY TRACE command to verify NetSpool tracing.

Explanation

NetSpool prompted the operator to enter a DISPLAY TRACE command to verify the trace status of the NetSpool program control and the LUs.

System action

Processing continues.

Operator response

Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5006I   External tracing to GTF has stopped.

Explanation

NetSpool stopped tracing externally to GTF for the program control and the LUs, as specified in the trace options with the TRACE OFF operator command.

System action

Processing continues.

Operator response

Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5007I   GTF return code = *retcode*

Explanation

GTF returned a nonzero return code while NetSpool was tracing externally. The return codes are:

4
    inactive MVS GTF

8
    incorrect length

10
    incorrect FID

14
    incorrect EID

18
    no GTF buffer space

1C
    incorrect parameter address

20
    data paged out

xx
    unknown GTF return code

System action

NetSpool processing continues. The action depends on the return code. For return codes 18 and 20, tracing continues to GTF. For all other return codes, NetSpool GTF tracing stops.

Operator response

Notify the system programmer.

System programmer response

For more information about the return codes, see *z/OS MVS Diagnosis: Tools and Service Aids*.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5008E   *trace-name* – Virtual storage could not be acquired for tracing. Tracing has been cancelled.

Explanation

NetSpool is unable to obtain storage for the internal wrap trace.

System action

NetSpool processing continues. Internal tracing is canceled for the NetSpool program control or the requested LU.

Operator response

If the error occurred when using the trace options data set, notify the system programmer. If the error occurred when the NetSpool TRACE command was displayed, reduce the size of the internal trace storage by using the PAGECOUNT trace options parameter, or trace fewer LUs. Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

Reduce the size of the internal trace storage by using the PAGECOUNT trace options parameter or trace fewer LUs. Enter the DISPLAY TRACE NetSpool command to verify the trace status.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5009E   **Trace command is not valid.**

Explanation

ON or OFF was not specified with the TRACE operator command.

System action

NetSpool processing continues. Tracing is not started or stopped.

Operator response

Enter the TRACE command with ON or OFF followed by a comma, if other options are specified. If no other options are specified, do not enter any other data on the command line.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5010E   *lu-name* **specified in trace options is not being processed by NetSpool.**

Explanation

The LU name that is specified after the LUNAME keyword in the trace options data set or in the TRACE operator command is not SELECTED by this instance of NetSpool. The LU is either not defined in the Printer Inventory or it is not in a "STARTED" or "WAITING" state. For more information about the status of the LUs, see *z/OS Infoprint Server Operation and Administration*.

System action

If this error occurs in the trace options data set during NetSpool initialization, NetSpool ends abnormally. If this error occurs when the TRACE command is entered from the operator console, tracing of the NetSpool program control is active, but other trace options might not take effect.

Operator response

If the error is in the TRACE command that is entered from the operator console, correct the error. Enter the DISPLAY TRACE NetSpool command to verify the trace status.

System programmer response

If the error is in the trace options data set, correct the error and start NetSpool again.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5011I   All NetSpool tracing has stopped.

Explanation

NetSpool stopped tracing because a TRACE OFF command requested that all tracing is stopped.

System action

Processing continues. NetSpool external tracing stopped for the program control and all LUs.

Operator response

Enter the DISPLAY ALL NetSpool command to verify the trace status.

System programmer response

Enter the DISPLAY TRACE NetSpool command to verify the trace status.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5012I   NetSpool tracing for all LUs has stopped.

Explanation

NetSpool stopped tracing because a TRACE OFF command requested that tracing for all LUs is stopped.

System action

Processing continues. NetSpool internal and external tracing stopped for all LUs.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

API5013I **NetSpool tracing for selected LUs has stopped.**

Explanation

NetSpool stopped tracing because a TRACE OFF command requested that tracing for selected LUs is stopped.

System action

Processing continues. NetSpool external and internal tracing stopped for selected LUs.

Operator response

None.

System programmer response

None.

Problem determination

Not applicable.

Module

Not applicable.

Source

Infoprint Server

Routing code

Not applicable.

Descriptor code

Not applicable.

Automation

Not applicable.

System abend code and reason codes

The system abend code for abends that NetSpool displays is **8C3**.

NetSpool does not attempt to restart after an abend. NetSpool displays a reason code for each abend. Reason codes are listed in .

When an abend occurs, you can capture the dump, save the abend information from the operator console, and report the error to the IBM Support Center.

Table 6. NetSpool abend reason codes	
Abend reason code	**Meaning**
X'0500'	Unable to get storage
X'0501'	Problem with Printer Inventory
X'0502'	Attach of subtask failed
X'0503'	Latch service failed
X'0504'	VTAM problem
X'0505'	Select logic error
X'0506'	Modeset failed
X'0507'	Initial building of printer definition block failed
X'0508'	Initial building of LU block failed
X'0509'	Incorrect function code in event block
X'0510'	Incorrect display function code
X'0511'	Incorrect LU type in session block

Table 6. NetSpool abend reason codes (continued)	
Abend reason code	**Meaning**
X'0512'	Incorrect PLU type in EOF rules
X'0513'	Incorrect object type in event block
X'0514'	Incorrect object type specified in parameter list when building printer definition block
X'0515'	Unable to find printer definition block to be deleted
X'0516'	SCS page format is not valid. It does not start with 2BC1 or 2BC2
X'0517'	Cannot load CEEPIPI
X'0518'	CEEPIPI isub failed
X'0519'	CEEPIPI call failed
X'0520'	CEEPIPI delete failed
X'0521'	iconv open failed
X'0522'	iconv conv failed
X'0523'	iconv close failed
X'0524'	Dubthread failed
X'0525'	Dubprocess failed
X'0526'	Logic error during PCL conversion
X'0527'	Logic error during line data conversion
X'0528'	UNIX SELECT/SELECTEX error

SNA sense codes

When an error occurs on an input request, NetSpool returns a negative response or in the case of a BIND request, NetSpool might return an UNBIND request. The negative response and the UNBIND request both include a sense code. These sense codes fall into two categories:

- General-use sense codes, which are described in *z/OS Communications Server: IP and SNA Codes*. Also, see the NetSpool SCS information in *z/OS Infoprint Server User's Guide* for information about SCS data stream errors that result in SNA sense codes.

- Implementation-specific sense codes, which are described in and in .

Table 7. SNA sense codes for Function Management Data (FMD). NetSpool sends these sense codes on the response to an FMD (normal print data) request.	
Sense code	**Meaning**
X'08120000'	Request not executable. The attempt to obtain storage with a GETMAIN macro failed.
X'081C0002'	Request not executable. An internal logic error was detected in a NetSpool printer LU.
X'081C0102'	Request not executable. The attempt to allocate an output data set on the JES spool failed.
X'081C0103'	Request not executable. An error was detected in the printer definition.
X'081C0106'	Request not executable. The attempt to close a data set failed.

Table 7. SNA sense codes for Function Management Data (FMD). NetSpool sends these sense codes on the response to an FMD (normal print data) request. *(continued)*

Sense code	Meaning
X'081C0203'	Request not executable. An unexpected return code was returned by a NetSpool module.
X'081C0220'	Request not executable. An error was detected in the page-format information for this LU. Correct the Printer Inventory printer definition for this LU.
X'081C0301'	Request not executable. The attempt to load exit APIPPTD1 or APIUBF3 failed.
X'081C0302'	Request not executable. The attempt to load exit APIPPTD2 failed.
X'081C0303'	Request not executable. The attempt to load exit APIPPTD1 or APIUBF3 failed because of an abend in the exit.
X'081C0304'	Request not executable. The attempt to load exit APIPPTD2 failed because of an abend in the exit.
X'081C0305'	Request not executable. The attempt to load exit APIUGEX failed.
X'081C0306'	Request not executable. The attempt to load exit APIUGEX failed because of an abend in the exit.
X'081C0307'	Request not executable. The job attribute text string contained an error.

Table 8. SNA sense codes for BIND. NetSpool sends these sense codes on a BIND response or an UNBIND request when NetSpool rejects a BIND.

Sense code	Meaning
X'081C0190'	Request not executable. An error was detected in the end-of-file (EOF) rules information for this printer LU. Correct the Printer Inventory printer definition for this LU.
X'081C0192'	An installation-written exit, either APIPPTD1 or APIPPTD2, requested that the session is ended.

Chapter 4. Printer Inventory Manager return codes and reason codes

Table 9 on page 417 and Table 10 on page 417 list the return codes and reason codes that the Printer Inventory Manager sends to the other Infoprint Server components. These codes can help you determine why another component cannot interface properly with the Printer Inventory Manager.

Where applicable, possible solutions are suggested. If no response is given, contact your service representative at the IBM Support Center, or use your electronic link with IBM for assistance.

Table 9. Printer Inventory Manager return codes

Return code (decimal)	Return code (hexadecimal)	Meaning
4	X'4'	The requested object was not found in the Printer Inventory.
8	X'8'	The inventory client has incorrectly coded parameters.
12	X'C'	An error occurred at the Printer Inventory Manager while processing the request. The system log contains a message indicating the reason for the failure.
16	X'10'	An API error occurred. For the reason codes, see Table 10 on page 417.

Table 10. Printer Inventory Manager reason codes

Reason code (decimal)	Reason code (hexadecimal)	Meaning
4	X'4'	Connection token is not valid.
8	X'8'	The connection to the Printer Inventory Manager was lost.
12	X'C'	Client-side storage was unavailable. It might help to increase the region size for the inventory client.
16	X'10'	The query token is not valid.
20	X'14'	Data that was not valid was supplied to the Printer Inventory Manager.
24	X'18'	The request type was not valid. The most likely cause is running different maintenance levels between the client and the Printer Inventory Manager.
28	X'1C'	An abend occurred during extract.
32	X'20'	Multiple asynchronous fetches were sent.
36	X'24'	A service was requested that is not allowed.
40	X'28'	The service call was interrupted.
44	X'2C'	A mismatched parameter list was coded.
48	X'30'	The client is not authorized to do the specified action.
52	X'34'	Server-side storage is not available. It might be helpful to increase the amount of storage available to the Printer Inventory Manager.

Reason code (decimal)	Reason code (hexadecimal)	Meaning
Table 10. Printer Inventory Manager reason codes (continued)		
56	X'38'	Client is not authorized to perform this action.
134610948	X'08060004'	The Printer Inventory cannot be found. You might be running on a system where Infoprint Server is not installed.
nnnnnnnnn	X'0x06yyyy'	The Printer Inventory cannot be loaded. You might be running on a system where Infoprint Server is not installed. The high-order halfword of this reason code is the abend code from LOAD. The low-order halfword is the reason code for the abend.

Chapter 5. Using the Infoprint Server diagnostic process

If you have problems with Infoprint Server, use the following information before calling your IBM service representative:

- "Determining which component to troubleshoot" on page 419 helps you narrow the source of the problem.
- "Diagnosis roadmap" on page 421 helps you match functions to their components.
- "Detecting printer definition errors" on page 422 helps you narrow the source of a printer definition error, such as a missing or incorrect parameter.
- "Finding abend information, system dumps, and messages" on page 423 helps you find information that your IBM service representative might ask you to locate.
- "Checking permissions settings" on page 425 helps you determine whether you have a problem with permissions.
- "Common Infoprint Server problems" on page 429 helps you correct common problems.
- "Diagnosing problems with the sendmail bridge" on page 432 helps you with sendmail.
- "Diagnosing problems in Infoprint Central" on page 432 helps you with Infoprint Central.

Your IBM service representative can provide further assistance.

Determining which component to troubleshoot

The components that make up Infoprint Server work together and separately to process and print data.

When data is not processed as expected (for example, output does not format as expected, or separator pages do not print as expected, or printer definitions cannot be accessed), it might not always be clear which components of Infoprint Server are involved. Finding the source of the problem usually requires figuring out which component of Infoprint Server to address. If you can isolate the correct component, you can more easily collect the messages, traces, and dumps that help your IBM service representative address your problem.

This information helps you do some preliminary diagnosis work by helping you identify the Infoprint Server component or components that you can concentrate your efforts on.

Error message prefix

Table 11 on page 419 identifies the component an error message comes from based on the error message prefix.

Table 11. Error message prefix identification of components

Message prefix	Component message comes from	For messages format, see:
ANFM	IP PrintWay basic mode	"ANF message format" on page 1
AOP	Infoprint Server (including IP PrintWay extended mode)	"AOP message format" on page 123
API	NetSpool started task	"API message format" on page 351

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SNA sense code

If an SNA sense code is displayed at the system operator console, NetSpool might be involved. Usually a NetSpool message is sent along with the sense code. For more information about SNA sense codes, see "SNA sense codes" on page 415.

Printer Inventory Manager return code and reason code

Some messages that NetSpool, Print Interface, and IP PrintWay send are followed by Printer Inventory Manager return and reason codes. The message text and codes describe a problem in the interface between the component and the Printer Inventory. For more information about Printer Inventory Manager return and reason codes, see Chapter 4, "Printer Inventory Manager return codes and reason codes," on page 417.

Application sending the print job

The system administrator might need to determine which application sent the print job to the JES spool. If the job was sent from:

- A VTAM application, such as CICS or IMS, do NetSpool diagnosis.
- The local z/OS system, a Windows application, or a remote client with any of these TCP/IP printing protocols, do Print Interface diagnosis:
  - Line printer requester (LPR) to line printer daemon (LPD)
  - Internet Printing Protocol (IPP)

Problem detected on JES spool

To determine whether the problem is in NetSpool or Print Interface (as opposed to IP PrintWay), examine the print job on the JES spool. If you detect problems with the print job while it is still on the JES spool, the problem probably is in NetSpool or Print Interface. Such an examination can isolate a number of NetSpool problems such as incorrect formatting or incorrect allocation parameters.

For Print Interface, you can also identify which component sent the data set by looking at the name of the SYSOUT data set. The name of the Print Interface startup procedure appears as the first qualifier of the data set name. The file name appears in the data set name, which is useful when printing from remote systems through Print Interface with the LPR to LPD protocol (**aoplpd**) or with the Internet Printing Protocol. However, when printing with z/OS UNIX commands, the job name is the user ID.

Table 12 on page 420 shows how NetSpool identifies print jobs on the JES spool.

Table 12. NetSpool print job identification	
This information:	**Comes from this area:**
Job ID	Infoprint Server
Job name	One of these: 1. **sysout-job-name** job attribute that is embedded in print data 2. **owner** job attribute that is embedded in print data 3. **Default owner** field in printer definition 4. NetSpool started task member name
Owner attribute in Infoprint Central, Infoprint Server print job view	One of these: 1. **owner** job attribute that is embedded in print data 2. **Default owner** field in printer definition 3. ID of user who started Infoprint Server daemons

Table 12. NetSpool print job identification (continued)

This information:	Comes from this area:
Owner field in Infoprint Central, JES print job view	ID of user who started Infoprint Server daemons
JES data set name: user ID field	ID of user who started Infoprint Server daemons
JES data set name: job name field	One of these: 1. **sysout-job-name** job attribute that is embedded in print data 2. **owner** job attribute that is embedded in print data 3. **Default owner** field in printer definition 4. NetSpool started task member name
JES data set name: job ID field	System-generated
JES data set name: data set name field	System-generated
JES data set name: data set suffix field	One of these: 1. **sysout-dataset-name** job attribute that is embedded in print data 2. VTAM PLU name of application that sent the data

Diagnosis roadmap

When you encounter a problem with Infoprint Server, your service representative in the IBM Support Center might request that you trace one or more components to provide additional information to help diagnose the difficulty.

You use several procedures to trace Infoprint Server. Depending on which component or components you want to trace, you might need to do one or more of the procedures because different Infoprint Server components use different trace facilities.

You can use Table 13 on page 421 to help you determine which diagnosis procedures you need to do, based on which function or component is causing a problem. The table lists the functions that are provided by Infoprint Server, the Infoprint Server components that you might want to trace, and where you can find information that describes the required tasks.

Table 13. Infoprint Server functions and corresponding Infoprint Server components

Function	Components	See
Work with print jobs, printers, and NetSpool logical units (LUs); display printer definitions; check system status.	Infoprint Central	"Diagnosing problems in Infoprint Central" on page 432, "Tracing Infoprint Central" on page 457
Build a Printer Inventory of printer definitions and components.	Printer Inventory Manager	Chapter 7, "Using Infoprint Server diagnostic tools," on page 447

Table 13. Infoprint Server functions and corresponding Infoprint Server components (continued)

Function	Components	See
Print from remote systems with one of these TCP/IP protocols: • **LPR to LPD** • **Internet Printing Protocol (IPP)** **Print from local system with z/OS UNIX commands or with the AOPPRINT JCL procedure.**	Printer Inventory Manager, Print Interface	Chapter 7, "Using Infoprint Server diagnostic tools," on page 447
Print from VTAM applications such as CICS and IMS.	Printer Inventory Manager, NetSpool started task, NetSpool daemon	Chapter 7, "Using Infoprint Server diagnostic tools," on page 447, Chapter 9, "Using NetSpool diagnostic tools," on page 477
Print on printers in a Internet Protocol network by using one of these TCP/IP protocols: • **LPR to LPD** • **Direct sockets printing** • **Internet Printing Protocol (IPP)** **Send print output to email destinations.**	Printer Inventory Manager, IP PrintWay basic mode, IP PrintWay extended mode	Chapter 7, "Using Infoprint Server diagnostic tools," on page 447, Chapter 8, "Using IP PrintWay basic mode diagnostic tools," on page 463
Print documents on a z/OS printer from a Windows system with the Infoprint Port Monitor for Windows.	Infoprint Port Monitor for Windows, Printer Inventory Manager, Print Interface	Chapter 7, "Using Infoprint Server diagnostic tools," on page 447
Store system configuration information in the Printer Inventory for PSF.	Printer Inventory Manager	Chapter 7, "Using Infoprint Server diagnostic tools," on page 447

Detecting printer definition errors

The components of Infoprint Server use the printer definitions in the Printer Inventory to format and direct print data sets into output.

You can identify and narrow your diagnosis of printer definitions several ways, depending on the failing component or on the interface you choose to use.

Identifying which printer definition is involved in VTAM applications

For print jobs that VTAM applications (using NetSpool) sent, you can determine which printer definition is involved through the LU names that are identified in messages and other output.

The primary LU (PLU), which is the application's LU name, appears in messages and in the SYSOUT data set. The secondary LU (SLU), which is the printer's LU name, appears in messages and in the printer definition. Both the PLU and the SLU also appear in the VTAM definitions.

The printer name in the printer definition that is used by NetSpool also can appear in error messages.

To check which Printer Inventory NetSpool is using, see the INV= parameter on the NetSpool startup procedure JCL for the instance of NetSpool involved in the problem.

You can use Infoprint Central to find jobs. On the Work with Print Jobs panel, enter the LU name in the **Submitted to** field. For more information, see the online help for Infoprint Central and *z/OS Infoprint Server Operation and Administration*.

You can use the DISPLAY command with LUNAME, SELECTED, or STARTED to see diagnostic information, including the printer name. This can help you diagnose problems with NetSpool LUs. For more information, see *z/OS Infoprint Server Operation and Administration*.

For more information about the NetSpool startup procedure, see *z/OS Infoprint Server Customization*.

For more information about NetSpool LU names and Printer Inventory printer definitions, see *z/OS Infoprint Server Operation and Administration*.

Querying printer definitions

To query printer definitions (for example, to make sure that a printer definition has the correct LU class identified or the correct NetSpool end-of-file information), use the Infoprint Server ISPF panels or the Printer Inventory Definition Utility (PIDU) commands. For more information about InfoPrint Manager interfaces, see *z/OS Infoprint Server Operation and Administration*.

Message logs

The message logs are:

Infoprint Server common message log
Contains messages from all the components of Infoprint Server except for IP PrintWay basic mode. The common message log can also contain messages from IBM transforms. For information about where a transform writes messages, see the documentation for the transform.

The administrator can specify how many days worth of messages to keep in the common message log. For information about how to set up the common message log, see *z/OS Infoprint Server Customization*.

Infoprint Central lets authorized users view messages in the common message log for selected print jobs and IP PrintWay extended mode printers. In addition, Infoprint Server administrators can use the z/OS UNIX **aoplogu** command to select messages in a particular time range and copy them to a file or view them on the terminal. For information about the **aoplogu** command, see *z/OS Infoprint Server Operation and Administration*.

IP PrintWay basic mode message log
Contains relevant messages whenever IP PrintWay basic mode encounters printer definition problems.

Finding abend information, system dumps, and messages

This information shows, in general, where to find abend information, system dumps, and messages that the IBM service representative might ask you to locate. The exact locations depend on your particular installation and how jobs were submitted. In addition to this information, see Chapter 7, "Using Infoprint Server diagnostic tools," on page 447.

Table 14 on page 423 shows, in general, where to find the abend information and system dumps that the IBM service representative might ask you to locate. However, dumps might not be available if Dump Analysis and Elimination (DAE) suppressed them.

Table 14. General location of abend information and system dumps

General location of abend information and system dumps	Areas and conditions	Notes
Console log	All Infoprint Server components.	

Table 14. General location of abend information and system dumps (continued)

General location of abend information and system dumps	Areas and conditions	Notes
/var/Printsrv directory	The default base directory for Infoprint Server.	Your installation might specify a different base directory in the **base-directory** attribute in the Infoprint Server configuration file (`aopd.conf`).
The current working directory	You entered a z/OS UNIX command.	Examples: **afp2pdf**, **afpxpdf**, **lp**, **pidu**, **remotexf**
The home directory	You ran the AOPBATCH or AOPPRINT JCL procedure.	
The Language Environment CEEDUMP directory	Language Environment writes CEEDUMPs to one of these directories, in the specified order: 1. The directory found in the _CEE_DMPTARG environment variable, if found 2. The current working directory, if the directory is not the root directory (/) and if the Language Environment can write to the directory 3. The directory found in the TMPDIR environment variable, which indicates the location of a temporary directory if it is not /tmp 4. The /tmp directory For more information about CEEDUMPs, see *z/OS Language Environment Debugging Guide*.	You can specify the _CEE_DMPTARG and TMPDIR environment variables in these locations: • The **aopstart** EXEC • Your `.profile` or the `/etc/ profile` file, if you entered a z/OS UNIX command • The data set indicated in the STDENV DD statement in the AOPBATCH JCL procedure or the VARFILE DD statement in the AOPDEMON JCL procedure • The transform configuration file, `aopxfd.conf` For the PDF to AFP and the PostScript to AFP transform daemon (**ps2afpd**), the Language Environment cannot write to the current working directory. Therefore, it writes the dump to the /tmp directory unless you specified the _CEE_DMPTARG or TMPDIR environment variable in the **aopstart** EXEC or in the transform configuration file, `aopxfd.conf`.
/var/Printsrv/xfd and /var/Printsrv/ xf_sockets subdirectories	You used Infoprint transforms.	
InfoPrint Manager server	You used InfoPrint Manager.	
InfoPrint Transform Manager for Linux server	You used InfoPrint Transform Manager for Linux.	

shows, in general, where to find the messages that the IBM service representative might ask you to locate.

Table 15. General location of messages

Component	General location of messages
All components that are not listed	• Console log
Infoprint Central	• Error log that is specified by the IBM HTTP Server - Powered by Apache ErrorLog directive: `server_root/logs/error_log`
IP PrintWay basic mode	• Console log • IP PrintWay message log data set
IP PrintWay extended mode	• CEEDUMPs • Common message log • Console log
ISPF panels	• Messages that are displayed on panel
NetSpool daemon (aopnetd)	• CEEDUMPs • Common message log • Console log
NetSpool started task	• Common message log • Console log • NetSpool message log data set
Print Interface	• CEEDUMPs • Common message log • Console log
Transforms - InfoPrint Manager	• Common message log • Current working directory • InfoPrint Manager server
Transforms - Infoprint Server Transform Manager	• CEEDUMPs • Common message log • Page at the end of the transformed output • stderr in `/var/Printsrv/xfd` and `/var/Printsrv/xf_sockets`
Transforms - InfoPrint Transform Manager for Linux	• Common message log • Current working directory • InfoPrint Transform Manager log on the Linux system • Page at the end of the transformed output

Checking permissions settings

In some cases, you might encounter problems that you can solve by checking permissions settings and by running the **aopsetup** shell script to correct some of the settings. For example, you might have problems

with permissions settings when you are moving from a test system to a production system, or when you are reinstalling Infoprint Server. Most permissions are set during the installation process.

In addition, you must run **aopsetup** in these situations:

- Before you start Infoprint Server daemons for the first time
- Whenever you move to a new z/OS release

Running **aopsetup** changes the permissions settings of these files in directory `/usr/lpp/Printsrv/bin`:

- `aopd`
- `aopdemon`
- `aopippd`
- `aoplpd`
- `aoplogu`
- `aopnetd`
- `aopoutd`
- `aopsend`
- `aopssid`
- `aopstart`
- `aopstat`
- `aopstop`
- `aopsubd`
- `aopxcfut`
- `aopxfd`
- `hinvu`
- `pidu`
- `sdbu`

For example, if you defined RACF group AOPOPER for operators and group AOPADMIN for administrators, enter on the z/OS UNIX command line:

```
/usr/lpp/Printsrv/bin/aopsetup AOPOPER AOPADMIN
```

For more information about **aopsetup** and permissions settings, including the exact steps for running **aopsetup** and the authority that is needed, see *z/OS Infoprint Server Customization*.

If your IBM service representative asks you to check permissions settings, you can use these commands:

- `ls -E /usr/lpp/Printsrv/bin`
- `ls -nE /usr/lpp/Printsrv/bin`
- `ls -E /usr/lpp/Printsrv/lib`
- `ls -nE /usr/lpp/Printsrv/lib`

Sample output from the commands is shown here. The samples show the normal permissions settings of Infoprint Server directories and the files that user ID 0 owns. If you specified the AOPOPER and AOPADMIN groups in `aopsetup`, your output from the commands looks similar to the sample output. If you installed any transforms, additional files are listed.

The correct permissions sometimes change in a new release or when a security APAR is applied. Your IBM service representative might tell you to verify the permissions by running the `aopcheck` utility in `/usr/lpp/Printsrv/samples`.

In the sample output:

- OMVSKERN is the owner ID. This name might be different in your installation, for example, BPXROOT.
- OMVSGRP is the group ID. This name might be different in your installation.
- AOPOPER is the RACF group for operators.
- AOPADMIN is the RACF group for administrators.

Important: The owner ID must have a UID of 0 (root). The **-n** option on the **ls** command shows the UID of the owner ID.

```
total 156512
drwxr-xr-x      2 OMVSKERN AOPOPER  ...  IBM/
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  aopchkinv
-rwx------ --s- 2 OMVSKERN AOPOPER  ...  aopcstart
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopd
-rwsr-xr-- --s- 2 OMVSKERN AOPOPER  ...  aopdemon
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopippd
-rwxr-x--- --s- 2 OMVSKERN AOPADMIN ...  aoplogu
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aoplpd
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  aopmig
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  aopmigns
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  aopmigpw
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopnetd
-rwxr-xr-x a-s- 2 OMVSKERN AOPOPER  ...  aopoms
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopoutd
-rwsr-xr-x a--- 2 OMVSKERN AOPOPER  ...  aopsapd
-rwxr-x--- a-s- 2 OMVSKERN AOPOPER  ...  aopsend
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  aopsetup
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopssid
-rwsr-xr-- --s- 2 OMVSKERN AOPOPER  ...  aopstart
-rwxr-xr-x a-s- 2 OMVSKERN AOPOPER  ...  aopstat
-rwsr-x--- --s- 2 OMVSKERN AOPOPER  ...  aopstop
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopsubd
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopwsmd
-rwxr-x--- a-s- 2 OMVSKERN AOPOPER  ...  aopxcfut
-rwx--S--- a--- 2 OMVSKERN AOPADMIN ...  aopxfd
-rwxr-xr-x a-s- 2 OMVSKERN AOPOPER  ...  cancel
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  filter
-rwxr-x--- a-s- 2 OMVSKERN AOPADMIN ...  hinvu
-rwxr-x--- --s- 2 OMVSKERN AOPADMIN ...  loadprinterinventory
-rwxr-xr-x a-s- 2 OMVSKERN AOPOPER  ...  lp
-rwxr-xr-x a-s- 2 OMVSKERN AOPOPER  ...  lpstat
-rwxr-x--- --s- 2 OMVSKERN AOPADMIN ...  pidu
-rwxr-xr-x --s- 2 OMVSKERN AOPOPER  ...  remotexf
-rwxr-x--- a-s- 2 OMVSKERN AOPADMIN ...  sdbu*
```

Figure 1. Sample output from command ls -E /usr/lpp/Printsrv/bin

```
total 156512
drwxr-xr-x        2 0   ...   IBM/
-rwxr-xr-x  --s-  2 0   ...   aopchkinv
-rwx------  --s-  2 0   ...   aopcstart
-rwx--S---  a---  2 0   ...   aopd
-rwsr-xr--  --s-  2 0   ...   aopdemon
-rwx--S---  a---  2 0   ...   aopippd
-rwxr-x---  --s-  2 0   ...   aoplogu
-rwx--S---  a---  2 0   ...   aoplpd
-rwxr-xr-x  --s-  2 0   ...   aopmig
-rwxr-xr-x  --s-  2 0   ...   aopmigns
-rwxr-xr-x  --s-  2 0   ...   aopmigpw
-rwx--S---  a---  2 0   ...   aopnetd
-rwxr-xr-x  a-s-  2 0   ...   aopoms
-rwx--S---  a---  2 0   ...   aopoutd
-rwsr-xr-x  a---  2 0   ...   aopsapd
-rwxr-x---  a-s-  2 0   ...   aopsend
-rwxr-xr-x  --s-  2 0   ...   aopsetup
-rwx--S---  a---  2 0   ...   aopssid
-rwsr-xr--  --s-  2 0   ...   aopstart
-rwxr-xr-x  a-s-  2 0   ...   aopstat
-rwsr-x---  --s-  2 0   ...   aopstop
-rwx--S---  a---  2 0   ...   aopsubd
-rwx--S---  a---  2 0   ...   aopwsmd
-rwxr-x---  a-s-  2 0   ...   aopxcfut
-rwx--S---  a---  2 0   ...   aopxfd
-rwxr-xr-x  a-s-  2 0   ...   cancel
-rwxr-xr-x  --s-  2 0   ...   filter
-rwxr-x---  a-s-  2 0   ...   hinvu
-rwxr-x---  --s-  2 0   ...   loadprinterinventory
-rwxr-xr-x  a-s-  2 0   ...   lp
-rwxr-xr-x  a-s-  2 0   ...   lpstat
-rwxr-x---  --s-  2 0   ...   pidu
-rwxr-xr-x  --s-  2 0   ...   remotexf
-rwxr-x---  a-s-  2 0   ...   sdbu
```

Figure 2. Sample output from command ls -nE /usr/lpp/Printsrv/bin

```
total 241312
drwxr-xr-x        2 OMVSKERN AOPOPER ... IBM/
-rwxr-xr-x apsl 2 OMVSKERN AOPOPER ... aop.so
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... aopapi.dll
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... aopapi2.dll
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... aopcop.dll
-rwxr-xr-x apsl 2 OMVSKERN AOPOPER ... aopdb.so
-rwxr-xr-x -ps- 2 OMVSKERN AOPOPER ... aopeapi.dll
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... aopfiltr.so
-rwxr-xr-x -ps- 2 OMVSKERN AOPOPER ... aopipc.so
-rwxr-xr-x -ps- 2 OMVSKERN AOPOPER ... aopipc2.so
-rwxr-xr-x -ps- 2 OMVSKERN AOPOPER ... aopipc2_8.5.so
-rwxr-xr-x -ps- 2 OMVSKERN AOPOPER ... aopipc_8.5.so
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... aoprform.dll
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... aoprxf.so
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... itm_client.so
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... libaopjnixp.so
-rwxr-xr-x -ps- 2 OMVSKERN AOPOPER ... libipa.so
-rwxr-xr-x aps- 2 OMVSKERN AOPOPER ... lpd_compat.so
```

Figure 3. Sample output from command ls -E /usr/lpp/Printsrv/lib

```
total 241312
drwxr-xr-x      2 0 ... IBM/
-rwxr-xr-x  apsl  2 0 ... aop.so
-rwxr-xr-x  aps-  2 0 ... aopapi.dll
-rwxr-xr-x  aps-  2 0 ... aopapi2.dll
-rwxr-xr-x  aps-  2 0 ... aopcop.dll
-rwxr-xr-x  apsl  2 0 ... aopdb.so
-rwxr-xr-x  -ps-  2 0 ... aopeapi.dll
-rwxr-xr-x  aps-  2 0 ... aopfiltr.so
-rwxr-xr-x  -ps-  2 0 ... aopipc.so
-rwxr-xr-x  -ps-  2 0 ... aopipc2.so
-rwxr-xr-x  -ps-  2 0 ... aopipc2_8.5.so
-rwxr-xr-x  -ps-  2 0 ... aopipc_8.5.so
-rwxr-xr-x  aps-  2 0 ... aoprform.dll
-rwxr-xr-x  aps-  2 0 ... aoprxf.so
-rwxr-xr-x  aps-  2 0 ... itm_client.so
-rwxr-xr-x  aps-  2 0 ... libaopjnixp.so
-rwxr-xr-x  -ps-  2 0 ... libipa.so
-rwxr-xr-x  aps-  2 0 ... lpd_compat.so
```

Figure 4. Sample output from command ls -nE /usr/lpp/Printsrv/lib

Common Infoprint Server problems

Customers encounter certain common problems with Infoprint Server. These problems have straightforward fixes. If applicable, try these fixes before you call your IBM service representative.

Performance problems when printing to one printer from many printer definitions
Many customers report performance problems when they are printing output through many printer definitions when the **Restrict ports** field is selected in the printer definitions. Often, message ANFM1103I with errno 48 is found in the ANFMMSG data set. The problem occurs when the 11 well-known ports 721 - 731 are exhausted, and TCP/IP enforces a 2-minute wait before a port is reused.

To fix the problem, the administrator clears the **Restrict ports** field in the printer definition so that ports 1024 and higher can be used. By default, **Restrict ports** is not selected.

Printing on an HP LaserJet printer
When printing on an HP LaserJet printer, the administrator specifies 0D25 in the **Line termination** field in the printer definition to avoid incorrect output. If this value is not specified, the resulting output problems vary, but the most common is "stair stepping," where each line is indented further than the previous line.

Error is issued for incorrect print queue name on HP printers with JetDirect cards
Message ANFM1109I with error number 54 (econnreset) can be displayed after an error (such as output bin full). This problem occurs on Hewlett-Packard printers that have the JetDirect card when the **Print queue name** field in the printer definition is not TEXT or RAW. To correct the problem, change the print queue name to either TEXT or RAW.

Incorrect or partial output that is caused by incorrect printer information
A user might encounter incorrect output, partial or missing output, or partial output followed by a call for user intervention (printer becomes NOT READY). A common cause is a printer definition that specifies a port or port number when a print queue name is required. Specifying a port number implies direct sockets printing, which bypasses LPR/LPD processing, causing the described output errors.

Incorrect or partial output when a transform from AFP is used
A user might encounter incorrect or partial output if the print process is interrupted during the generation of print output or an error occurred during print generation that interrupted the transform. This situation happens only when you are using a command to transform data, such as afpxpdf or pcl2afp, and the transform is interrupted.

Empty file when a transform from AFP is used
If a transform from AFP produces an empty file, the problem might be that the transform cannot find the default font and cannot write any error messages. The solution is for the administrator to specify a valid default font in the **AOP_CHARS** environment variable in the transform configuration file (aopxfd.conf). Also, to help diagnose the problem, the administrator can specify the **-F filename**

option on the transform command to specify an output file for messages. This message file is created in the transform's working directory. If the problem is a missing default font, the file contains a message about the error.

Cannot print multiple copies

If you have a problem printing multiple copies, clear the **Optimize copies** field in the printer definition.

In addition, some line printer daemons do not support multiple copies through the standard LPD convention. The workaround is to use this JCL to generate multiple copies on the JES spool but then route them to the same printer:

```
//PWAYJOB4 JOB
//STEP1    EXEC PGM=USERA
//OUTDS1   OUTPUT CLASS=E,FORMS=WIDE,DEST=DEPT001
//DD1      DD SYSOUT=(,),OUTPUT=(*.OUTDS1,*.OUTDS1)
```

The number of JCL refer-backs (*.OUTDS1) is directly related to the number of SYSOUT data sets that are created.

Wrong font parameter passes to an AIX machine (JES3)

In JES3, if you use the Remote PSF LPR option to pass a JCL CHARS parameter to an AIX machine as an **-ochars** parameter, the wrong font name might pass through to AIX. To fix the problem, add U to the WS parameter of the JES3 DEVICE IO statement for that particular printer FSA.

Data set on JES spool never closes or closes after the wrong page

If you specify an incorrect end-of-file rule for a NetSpool job, the data set on the JES spool might never close or might close after the wrong page. Check the end-of-file rule for the printer definition that is associated with this printer LU, and verify that the rule is suitable for your application. For more information, see *z/OS Infoprint Server Operation and Administration*.

Error messages BPXF024I and EDC5112I received when Infoprint Server daemons are started

If you start Infoprint Server daemons by using the /etc/rc facility, you can receive these error messages:

```
BPXF024I (BPXOINIT aoplpd: socket(AF_INET,SOCK_STREAM,0) failed in
TCPSocket::TCPSocket (int&,int,int) at ./src/tcpsock.cpp 83:
EDC5112I Resource temporarily unavailable. errno2=0x74b30296
```

This error occurs because UNIX System Services runs commands in the /etc/rc file early in the IPL and TCP/IP might not be completely active before the Infoprint Server daemons start. To correct this problem, you can use the **setstack** command. The **setstack** command is not formally supported by IBM. However, you can download **setstack** from the z/OS UNIX System Services Tools and Toys Web page (www.ibm.com/systems/z/os/zos/features/unix/bpxa1toy.html) to make sure that TCP/IP is initialized before the **aopstart** command runs. For an example of how to specify the **setstack** command in /etc/rc, see *z/OS Infoprint Server Customization*.

lp command successfully spooled but unexpected output occurs

If you run the **lp** command in a UNIX System Services shell and the file is spooled successfully but the expected output is not generated, one of these might be the cause:

- You might be running the wrong **lp** command. The Infoprint Server **lp** command is in the /usr/lpp/Printsrv/bin directory. However, the standard UNIX System Services **lp** command is in the /bin directory. You can use the **whence** command to determine the path of the command. To correct this problem, place the /usr/lpp/Printsrv/bin directory before the /bin directory in your PATH environment variable.

- If you are transforming AFP data, more error messages might be sent before the AOP007I message. Examine the message page for error information.

Infoprint Server job identifiers do not display on JES spool

You must use SDSF or a similar product to display the job identifiers that Infoprint Server assigns to output data sets on the JES spool. JES Display commands list internal job identifiers instead of the job identifiers that Infoprint Server assigns.

ISPF panel AOPIPP1 displays message 'NOT AUTHORIZED' and message AOPIM021

If you receive an ISPF message that you are not authorized when you attempt to use the Infoprint Server ISPF panels, your TSO user ID does not have the required RACF authority. Your TSO user ID, or one of the groups to which you belong, must have READ or UPDATE access to the AOP.ADMINISTRATOR profile in the PRINTSRV class. READ access is required to list and browse objects in the Printer Inventory, and UPDATE access is required to add, copy, and edit objects. If the AOP.ADMINISTRATOR profile is not defined, you must have READ access to the AOPADMIN profile in the FACILITY class. Typically, the AOPADMIN group has UPDATE access to the AOP.ADMINISTRATOR profile or READ access to the AOPADMIN profile.

Tip: To display the RACF groups that your user ID belongs to, enter the LISTUSER command. Output from the LISTUSER command is similar to:

```
USER=JOHN  NAME=JOHNNIE, JOHN  OWNER=JOHN  CREATED=02.161
DEFAULT-GROUP=USER  PASSDATE=03.300  PASS-INTERVAL=186
ATTRIBUTES=NONE
```

If the LISTUSER command displays only one group and the AOPADMIN group is not displayed, the SETROPTS parameter NOGRPLIST might be set. NOGRPLIST causes the LISTUSER command to check only the first group that your user ID belongs to. Other groups are not checked. Therefore, if your user belongs to multiple groups and AOPADMIN is not the first one, the AOPADMIN group is not displayed. A SETROPTS list display shows 'LIST OF GROUPS ACCESS CHECKING IS INACTIVE'. Enter SETROPTS GRPLIST so that the LISTUSER command can check all groups that your user ID belongs to.

Error when text data is printed from an AS/400 system

If a user prints a text document from an AS/400 system by using a workstation customization object of QSYS/QWPDEFAULT, Print Interface might not recognize the data format as text. One of these errors occur:

- If **Other** is not selected in the **Data format** field of the printer definition, Print Interface rejects the job.
- If **Other** is selected, data does not print as expected.

This problem occurs because the host print transform and workstation customization object QSYS/QWPDEFAULT on the AS/400 system inserts an initial null byte into the print file before it sends the file to Infoprint Server. The null byte prevents Print Interface from recognizing the data format as text.

To correct this problem, you can use this source to create a workstation customization object that does not insert an initial null byte. This source is the same as for the QSYS/QWPDEFAULT object, but with `:INITPRT DATA='00'X.` removed. For information about how to create a customization object, see *Workstation Customization Programming V4R3*.

```
:WSCST DEVCLASS=TRANSFORM.
  :TRNSFRMTBL.
  :SPACE
    DATA ='20'X.
  :CARRTN
    DATA ='0D'X.
  :FORMFEED
    DATA ='0C'X.
  :LINEFEED
    DATA ='0A'X.
  :EWSCST.
```

NetSpool page-formatting values ignored

NetSpool uses page-formatting values, such as margins and line length, that are specified in the printer definition (in the Processing section under the heading **Conversion between SCS and Line**), only when NetSpool formats SCS data (for LU type 1 sessions) into line data. NetSpool does not use page-formatting values in the printer definition when it formats 3270 data (for LU type 0 and type 3 sessions) because NetSpool instead uses page-formatting information that is specified in the 3270 Write Control Characters (WCCs) in the 3270 data stream.

To change page-formatting values for 3270 data, the application programmer must change the WCCs generated by the VTAM application that creates the 3270 data.

Error messages: CSV003I REQUESTED MODULE AOXVTM NOT FOUND and CSV0281 ABEND 806–04

This message is received when an APPL ID is specified in the IP PrintWay FSS definition in the Printer Inventory, but Infoprint Coaxial Printer Support for z/OS is not installed.

To correct this problem, remove the APPL ID from the **Applid** field in the FSS definition before you restart IP PrintWay. Infoprint Coaxial Printer Support cannot be installed because it is no longer supported.

Diagnosing problems with the sendmail bridge

When the email protocol is selected in the printer definition, IP PrintWay uses the sendmail to Communications Server SMTP (CSSMTP) bridge to send the emails.

If you did not already customize the sendmail bridge, you must do so before IP PrintWay can send output to email destinations. For information about how to customize the sendmail bridge, see:

- *z/OS Communications Server: IP Configuration Guide*
- *z/OS Infoprint Server Customization*

If emails that IP PrintWay sends are not successfully received, verify that sendmail and other components of z/OS Communications Server are set up correctly before you call your IBM service representative.

Tip: If sendmail cannot find an alias name, make sure:

- The alias name is correctly specified in the /etc/aliases file.
- Alias files are readable by everyone.
- All directories in the path of an alias file are readable and executable by everyone.

Diagnosing problems in Infoprint Central

To set up, customize, and diagnose problems with Infoprint Central, see:

- The Infoprint Central information in *z/OS Infoprint Server Customization*
- The "Hints" and "Troubleshooting" sections in the online help for Infoprint Central

Infoprint Central writes error messages to the error log specified by the IBM HTTP Server - Powered by Apache ErrorLog directive. The default location is *server_root*/logs/error_log.

The service representative in the IBM Support Center might ask you to run a trace to aid in diagnosing the problem. You might need to stop the HTTP server and then restart it before you run the trace. For more information, see .

In addition, try the fixes in , , and before you call your IBM service representative.

Table 16. Installation problems with Infoprint Central	
If you have this problem:	**Make sure:**
HTTP server does not start	Each directive is coded on one line in the HTTP server configuration file (conf/httpd.conf) and environment variables file (bin/envvars).
Error 404 – Page not found or blank web page	• The JCL in the HTTP server points to the correct configuration file (conf/httpd.conf) and environment variables file (bin/envvars) if you start or stop the server from TSO. • The directives are in the correct order and are grouped correctly in the HTTP server configuration file (conf/httpd.conf). For information about how to specify directives, see *z/OS Infoprint Server Customization*.

Table 16. Installation problems with Infoprint Central (continued)	
If you have this problem:	**Make sure:**
JavaScript errors	The directives are in the correct location in the HTTP server configuration file (`conf/httpd.conf`). For information about how to specify directives, see *z/OS Infoprint Server Customization*.

Table 17. Browser problems with Infoprint Central	
If you have this problem:	**Make sure:**
Date or time information is wrong	Check your web browser settings.
JavaScript errors or incorrect web page formats	You use the correct version of a supported web browser.
Incorrect or outdated information	• You customize the settings in the web browser to retrieve the most current pages from the web so that the Infoprint Central refresh function works correctly. • You periodically refresh the Infoprint Central web page to update the most current information.
Search criteria not saved	You enable cookies in the web browser.
Unexpected information	The value for the LC_ALL environment variable in the HTTP server environment variables file (`bin/envvars`) must match the variable that is specified in the environment for the start command or the JCL startup procedure.

Table 18. Other problems with Infoprint Central	
If you have this problem:	**Do this:**

HTTP error or blank web page	1. Look in the HTTP server log file, `httpd-errors.`*date*. If the log contains the message "Address Space Dirty", the extended attributes that SMP/E set during installation might be modified. During installation, SMP/E marks the `aopcentral.so` and `aopeapi.dll` files program-controlled. Use the z/OS UNIX **extattr** command to verify that these files are program-controlled:
	
	`/usr/lpp/Printsrv/lib/aopcentral.so`
	`/usr/lpp/Printsrv/lib/aopeapi.dll`
	`/usr/lpp/Printsrv/lib/aop.so`
	
	If you installed Infoprint Server in a directory other than `/usr/lpp/Printsrv/lib`, display the attributes of these files in that directory. If the problem persists, stop the server and look in the HTTP server's SYSOUT data sets on the HOLD queue for more information.
	2. Clear the cache from the web browser.

Timeout errors	Narrow the search in Infoprint Central by specifying more precise search values, increase the HTTP server's timeout value (**OutputTimeout** directive), or decrease the maximum number of objects that Infoprint Central displays after a search (AOPLIMIT environment variable).

Table 18. Other problems with Infoprint Central (continued)

If you have this problem:	Do this:
Infinite loop in the web browser with Find Printer Definitions	Widen the web browser window slightly.
Response is slow	1. Start a separate HTTP server that Infoprint Central uses exclusively. 2. Use the HTTP server tuning parameters to tune it.
Incorrect national language characters in Location fields	Set the AOPCENTRAL_CODEPAGE environment variable (*national language* characters are not encoded with the IBM-1047 code page).

An action cannot be done because of an Infoprint Server logic error	Look in the HTTP server log file, `httpd-errors.`*`date`*. If the log contains a message in this format:
	
	```\n----IPA/Penguin Error:----\nmessage="...."\n```
	
	For example:
	
	```\nmessage="DeviceControlFactory:\n{timeout=200 snmp_readCommunityName=\"public\"...\n```
	
	1. Make sure that the required JAR files (`ipa.jar`, `modelplugin.jar`, `penguin.jar`, and `snmp.jar`) are installed in the default directory (`usr/lpp/Printsrv/classes`) or in the directory that is specified in the CLASSPATH statement.
	
	   If the files specified in the CLASSPATH statement are installed in the default directory, comment out the CLASSPATH statement and restart the HTTP server.
	
	2. Check the CLASSPATH syntax and spelling. Also, make sure that no trailing space characters exist.
	
	   Tip: Use the **ishell** facility to browse the `bin/envvars` file. While you are browsing the file, turn hex on. Remove any trailing X'40' data in the statements.
	
	3. Remove any directories from the CLASSPATH statement that Infoprint Central does not require, and restart the HTTP server.
	
	4. Make sure that Java 7.1 or Java 8.0 is installed and that JAVA_HOME is set correctly.
	
	5. If the Infoprint Central trace is turned on (AOPTRACEON=1 in the HTTP server `bin/envvars` environment variables file or a Trace type parameter is selected for the IPC daemon type in the Printer Inventory), make sure that the permissions are set correctly for the trace file. AOPTRACEDIR environment variable or **Trace directory name** parameter in the Printer Inventory specifies the directory where trace files are created. The user ID of the user who starts the HTTP server must have permission to write to the specified trace directory, and the trace directory must exist.

Chapter 6. Building a keyword string

Often a problem you encounter with Infoprint Server is one that other users reported and that is fixed. Records of such problems and their fixes are stored in an online database that is called the IBM Software Support Facility. To search this database, you can construct a keyword string, consisting of a concise series of terms, each of which describes one aspect of the problem. By constructing an accurate keyword string, you can help make the search quick, easy, and reliable.

Preparing to build the keyword string

Before you build a keyword string:

1. Make sure that the problem is in Infoprint Server. If you find that the problem results from a user or configuration error, see one of these for the correct procedure:

   - *z/OS Infoprint Server Customization*
   - *z/OS Infoprint Server Operation and Administration*
   - *z/OS Infoprint Server User's Guide*

2. If Infoprint Server was changed since you last used it, examine the changes. If you suspect that the problem is because of incompatibilities between your program and the changed Infoprint Server program, note the area in which the incompatibility seems to be.

3. Correct all the problems reported in messages that describe incorrect user data or resources.

4. Use the applicable diagnostic aids, such as traces and dumps, that might help you isolate the component that contains the problem. For a description of the aids available for each component of Infoprint Server, see:

   - Chapter 7, "Using Infoprint Server diagnostic tools," on page 447
   - Chapter 8, "Using IP PrintWay basic mode diagnostic tools," on page 463
   - Chapter 9, "Using NetSpool diagnostic tools," on page 477

5. Note the sequence of events that led to the problem. This information might be useful in developing a keyword string and is needed if an authorized program analysis report (APAR) is required.

6. If you suspect a problem in the Infoprint Server program, see Figure 5 on page 437 for an explanation of the procedure for selecting keywords.

The keywords

Each keyword in a keyword string is a word or abbreviation that describes one aspect of an Infoprint Server program problem. The first keyword gives the name of the Infoprint Server component in which the problem is thought to have occurred. By searching the IBM Software Support Facility with this keyword, you can find all the APARs written for that component of Infoprint Server. By adding other keywords to the keyword string, you reduce the number of matches and increase the chances of finding a solution to your specific problem.

A complete string of keywords contains one keyword of each of these types:

- Component identification number
- Type of problem, with qualifiers
- Module or modifier
- Release and maintenance level

If one of these types does not seem to apply to your problem, you can go on to the next type. In general, however, do not start your search until you have a complete string of keywords.

Your search is most successful if you:

- Use only the keywords that are presented and described here.
- Spell the keywords exactly as they are spelled here.
- Follow the keyword procedures in the order shown.

Each section provides a partial keyword string that describes what is known so far about the problem. For some keywords, you might need to add a specific piece of information, for example, by replacing the *x* of the MSG*x* keyword with the identifier of the message received. Continue to develop the keyword string until you are instructed to use it as a search argument.

The position of the keywords is not important. However, you do need to separate them with spaces.

The procedure for building and using a keyword string is diagrammed in Figure 5 on page 437. After you review this figure, see "Component identification number" on page 438 to begin building a keyword string.

Start

Component ID

Type of failure

| ABENDx | LOOP | WAIT | MSGx | INCORROUT | PERFM | DOC Order number |

Module ID

Module ID

Modifier

Maintenance level

Release level

Search argument procedure

Match?   no   yes

Broaden search

Match?   no   yes

APAR procedure

Apply the fix

Stop
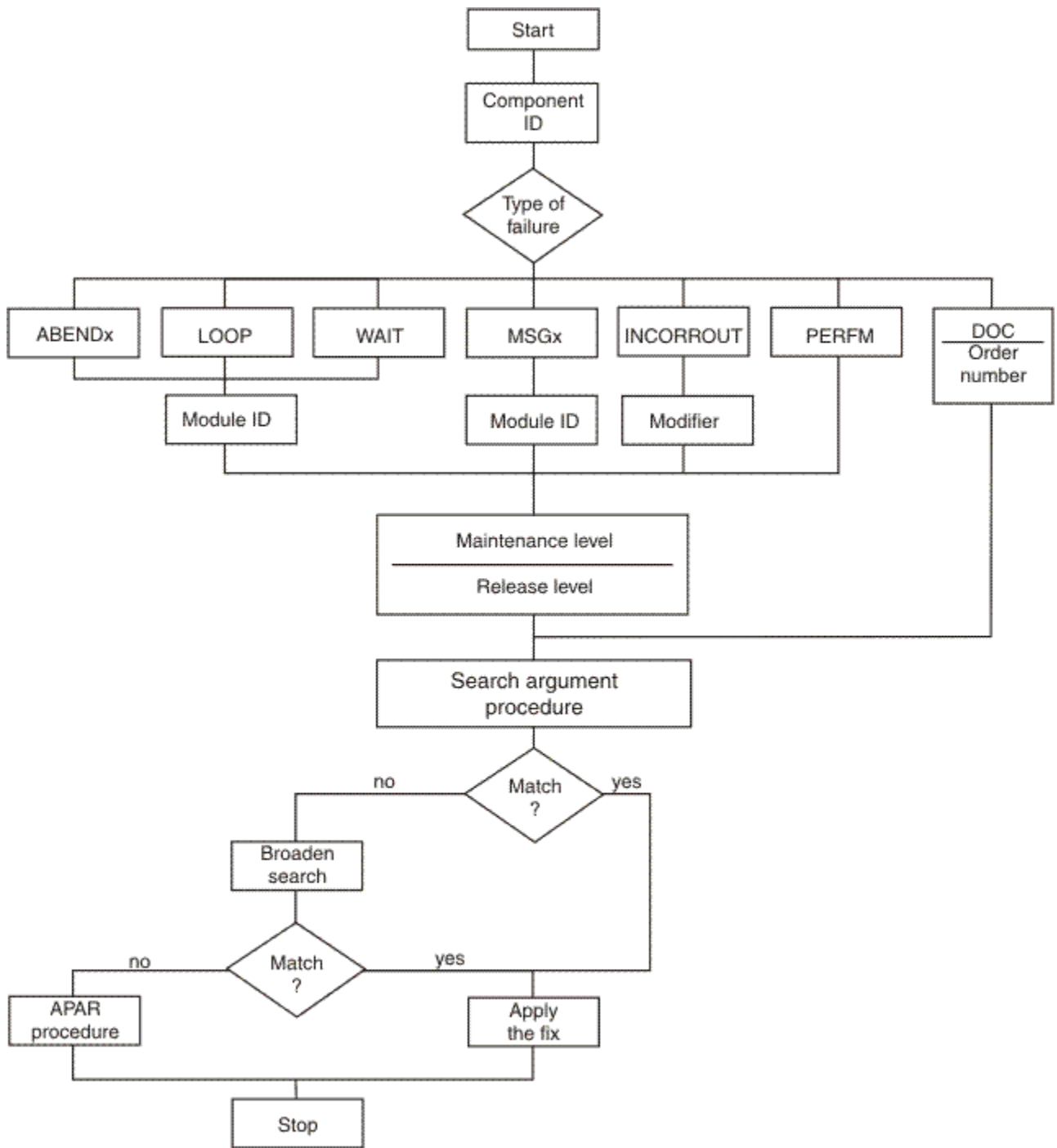
Figure 5. Building and using a keyword string

Building and using a keyword string (outline)

1. "Start"
2. *Component ID*
3. "Type of failure" (7 options)

    a. **ABENDx**, then *Module ID*, then *Maintenance level*, then *Release level*

    b. **LOOP**, then *Module ID*, then *Maintenance level*, then *Release level*

    c. **WAIT**, then *Module ID*, then *Maintenance level*, then *Release level*

    d. **MSGx,** then *Module ID*, then *Maintenance level*, then *Release level*

e. **INCORROUT**, then *Module ID*, then *Maintenance level*, then *Release level*

　　　f. **PERFM**, then *Maintenance level*, then *Release level*

　　　g. **DOC**, then *Order number*

　4. "Search argument procedure"

　5. Q: "Match?"

　　　a. If "Yes", then "Apply the fix"

　　　b. If "No", then "Broaden search", then Q: "Match?"

　　　　　1) If "Yes", then "Apply the fix"

　　　　　2) If "No", then "APAR procedure"

　6. "Stop"

Component identification number

The component identification number is the first keyword in a keyword string. Whenever you suspect that the problem is in a component of Infoprint Server, use the identification number for the affected component of Infoprint Server as the first keyword.

Procedure

To start a keyword string:

Table 19. Component identification numbers	
For this component or feature:	**Use this component ID:**
All components that are not listed	5647A01OP
IP PrintWay basic mode component	569504004
IP PrintWay extended mode	5647A01OP
NetSpool component (started task)	569504002
NetSpool component (aopnetd daemon)	5647A01OP

Notes:

　a. To determine whether IP PrintWay extended mode is running, enter this MVS operator command from the console:

```
d a,aopoutd
```

　　If **aopoutd** is active, IP PrintWay extended mode is running.

　b. For information about transforms, see the documentation for the transforms.

Type-of-failure keyword

Table 20. Type-of-failure keywords

Keyword	Description
"ABENDx" on page 439	Abnormal end of Infoprint Server or one of its components
"LOOP" on page 439	Uncontrolled program looping
"WAIT" on page 440	Unexpected program suspension
"MSGx" on page 440	An error signaled by or associated with messages
"INCORROUT" on page 441	Incorrect or missing output unrelated to a message
"PERFM" on page 441	Performance degradation (use this keyword only when no other keyword seems applicable)
"DOC" on page 442	Documentation problem

Select the keyword that best describes the problem. If you are not certain which of two keywords to use, use the one listed first in the list. The following pages explain the situations that govern which type-of-failure keyword to use.

ABENDx

Use the ABENDx keyword when the host system, an Infoprint Server component, or any program that services Infoprint Server ends abnormally. If the abnormal end was forced by the host system or by the operator because of an endless loop or a prolonged wait state, do not use this keyword. In these situations, see the descriptions of the LOOP and WAIT keywords.

Procedure

To add an ABENDx keyword to the string:

1. Add the ABEND code (in a dump, the last 3 hexadecimal numerals in the system completion code) to the keyword. For example, if the abend code is 0C4, use ABEND0C4.
2. The format of the keyword string might now be:

   ```
   569504004 ABEND0C4
   ```

   The first keyword is the component ID, and the second is the type of error.
3. For help in determining which module failed, see "Module keyword" on page 442.

LOOP

Use the LOOP keyword if part of Infoprint Server seems to go into an endless loop. For instance, if part of the output repeats endlessly. If you suspect a loop, ask the operator to request a dump by using the z/OS system command DUMP, as described in *z/OS MVS System Commands*, then cancel the Infoprint Server-started job. Whenever possible, the dump needs to contain the z/OS system trace table and the appropriate Infoprint Server component internal trace table.

Tip: Before requesting the dump, start the Generalized Trace Facility (GTF) with the SYS and JOBNAME options to keep the trace processing to a minimum. For details about how to obtain and print a GTF trace, see *z/OS MVS Diagnosis: Tools and Service Aids*.

For an endlessly repeated message, first use the MSG keyword to conduct the search. If no match is found, use the LOOP keyword. If an intentional loop is used to wait for a resource, use the WAIT keyword rather than the LOOP keyword.

Procedure

If a component of Infoprint Server suspends activity for no clear reason, Infoprint Server might be in either a loop or a wait state. An example of a loop is a page of output that repeats endlessly.

To add a LOOP keyword to the string:

1. Run the job again and dump the address space for the failing component. Check the dump for a z/OS system internal trace table, an Infoprint Server component internal trace table, or both. If the trace tables are not contained in the dump and you are unable to determine whether the problem is a wait or a loop but you can re-create the problem, do these steps:

   a. Start the appropriate internal trace for the failing component. See "Tracing Infoprint Server" on page 447, "Starting a NetSpool trace" on page 478, "Starting an IP PrintWay basic mode trace" on page 465, and "Setting the ISPF trace on and off" on page 461 for information about starting internal traces for each component.

   b. Redefine the trace table size to be as large as feasible.

   c. Run the job again and request a dump by using the z/OS system DUMP command. Make sure that the SDATA operand of the command contains RGN (region). If the job is not in a loop, see "WAIT" on page 440.

2. The format of the keyword string might now be:

   ```
   569504004 LOOP
   ```

   The first keyword specifies the component ID, and the second specifies the type of problem.

3. To determine which module contains the problem, see "Module keyword" on page 442.

WAIT

Use the WAIT keyword when the host system, a component of Infoprint Server, or a program that services Infoprint Server suspends activity, without sending a message. If you suspect a wait condition, ask the operator to request a dump by using the z/OS system command DUMP, as described in *z/OS MVS System Commands*. Make sure that the SDATA operand of the command contains RGN. Then, cancel the Infoprint Server-started task.

This dump contains the z/OS system trace table and the internal trace table for the affected Infoprint Server component.

Inspect the dump to see whether the wait bit is on in the program status word (PSW).

Do not use this keyword if the wait occurs after an abnormal end, as the result of an unanswered message, or because of an endless loop in an Infoprint Server component. Instead, use the ABEND or LOOP keywords.

Procedure

To add the WAIT keyword to the string:

1. Add the WAIT keyword to the string.

2. The format of the keyword string might now be:

   ```
   569504004 WAIT
   ```

3. To determine which module contains the problem, see "Module keyword" on page 442.

MSGx

Use the MSGx keyword when:

- A message was sent when it should not have been.

- A message was not sent when it should have been.
- A message contains incorrect or missing data.
- The corrective action suggested in *z/OS Infoprint Server Messages and Diagnosis* does not correct the problem.

A set of characters in one of these forms, depending on the component in question, identifies each Infoprint Server message:

ANFM
    IP PrintWay basic mode

AOP
    All Infoprint Server components except IP PrintWay basic mode and the NetSpool started task

API
    NetSpool started task

Tip: The Printer Inventory Manager does not send its own messages directly. Instead, the Printer Inventory Manager returns information to the component interfacing with it. That component in turn sends messages about the Printer Inventory Manager (such as missing data or lost connections).

Procedure

To add the MSGx keyword to the string:

1. Replace the *x* in the MSGx keyword with the message identifier. For example, if the message identifier is ANFM700I, the MSG keyword is MSGANFM700I.
2. The format of the keyword string might now be:

```
569504004 MSGANFM700I
```

INCORROUT

Use the INCORROUT keyword when the output is not received or is not what you expected. Do not use this keyword for output that is repeated endlessly. In that case, use the LOOP keyword.

Procedure

To add the INCORROUT keyword to the string:

1. Make sure that the output really is incorrect, rather than merely undesirable in appearance.
2. The format of the keyword string might now be:

```
569504004 INCORROUT
```

3. See "INCORROUT modifier keywords" on page 442, and select the correct keyword.

PERFM

Use the PERFM keyword when part of Infoprint Server performs below your expectations and the performance problem cannot be corrected by system tuning. Make sure that the application programs, the JCL, and the data set definitions are thoroughly examined.

Procedure

To add the PERFM keyword to the string:

1. Add PERFM to the keyword string.
2. The format might now be:

```
569504004 PERFM
```

DOC

Use the DOC keyword when a programming problem seems to be caused by information in Infoprint Server information that is vague, incorrect, or missing.

Procedure

To add the DOC keyword to the string:

1. After the DOC keyword, skip one space and add the order number of the publication. Do not use hyphens. That is, rather than G544-5690-00, type G544569000.
2. The format of the keyword string might now be:

```
569504004 DOC G544569000
```

3. If you find too many matches, add keywords unique to the documentation error you suspect. For example, add MSG*x* as a keyword if you are looking for a particular message because you suspect its contents are incorrect or unclear, or because it is not documented in *z/OS Infoprint Server Messages and Diagnosis*.
4. If the search is unsuccessful, replace the suffix numerals in the order number (the last two "00" in G544569000) with two asterisks, and search again. By including the asterisks, you are requesting a search for document errors in all the editions of a publication.

Module keyword

The module keyword identifies the module that is related to the program problem.

Procedure

If you have a storage dump, do these steps to find the name of the module that is associated with the program problem (this is not necessarily the module that contains the problem):

1. In the storage dump, find the instruction address at which the abend occurred, the supervisor call instruction (SVC) for the WAIT was sent, or the LOOP occurred.
2. Back up from that instruction until you find a 6- to 8-character module ID (for example, APIPPPFT) followed by a module date. Include the module ID as part of the keyword string.
3. The format of the keyword string might now be:

```
569504002 ABEND8C3 RC0501 APIPPPFT
```

INCORROUT modifier keywords

The various keywords by which you can describe incorrect output are described here. You can use these keywords to describe missing or extra data, or data that you did not specify. The three levels of keywords to use are:

- The first level describes the document. For example, a document in line format.
- The second level describes what part of the document was incorrect. For example, an image.

• The third level describes how the part was incorrect. For example, the image was the wrong size.

Procedure

To describe incorrect output:

1. Enter one keyword to describe the document in which the incorrect output occurred. For example, use a keyword from Table 21 on page 443.

Table 21. Examples of modifier keywords: Description of incorrect document

Keyword example	Explanation
LINE	The document consisted of line data.
PCL	The document consisted of PCL data.
PDF	The document consisted of PDF data.
TEXT	The document consisted of text data.

2. Enter one or more keywords to describe the part that is incorrect. For example, use a keyword from Table 22 on page 443.

Table 22. Examples of modifier keywords: Description of incorrect part

Keyword example	Explanation
CONTENT	You did not get the content of the document as you expected.
MISSING	A part or parts of the document are missing from the output.
MARGIN	The side, top, or bottom margin is not what you specified.
HEADER PAGE	You did not get the header page that you expected, or you got a header page you didn't expect.
TRAILER PAGE	You did not get the trailer page that you expected, or you got a header page you didn't expect.

3. Enter one or more keywords to describe what is wrong with the named part. For example, use a keyword from Table 23 on page 443.

Table 23. Examples of modifier keywords: Description of incorrect output

Keyword example	Explanation
CONTENT	The content of the part was wrong.
DIRECTION	The rule direction was wrong.
EXTRA	An extra part was included in the output.
LENGTH	The rule length was wrong.
LINESPACE	The line spacing for a document, a page, or a text string was wrong.
MISSING	The part was missing from the output.
ORIENT	The orientation of the part was wrong.
POSITION	The position of the part was wrong.
REPEAT	The repetition of text or image cells was wrong.
SCALE	A scaling (double dot) error in an image occurred.
SIZE	The size of the part was wrong.

Table 23. Examples of modifier keywords: Description of incorrect output (continued)	
Keyword example	Explanation
WEIGHT	The rule weight was wrong.

4. The format of the keyword string might now be:

```
569504004 INCORROUT LINE CONTENT EXTRA
```

This example describes the case of extra, identical copies of one or more sheets of data.

5. You can narrow the search by defining the incorrect output more precisely. For example:

```
569504004 INCORROUT LINE HEADER PAGE MISSING
```

This example shows an INCORROUT string for a line data page on which a requested header page did not print.

Version, release, and maintenance level keywords

The keywords of this type give exact details about the version, release, and maintenance level of the Infoprint Server component your installation is using. The System Modification Program/Extended (SMP/E) consolidated software inventory data set (CSI) contains the ID of the latest program temporary fix (PTF) that is applied to your program. This ID, two letters and five numerals, gives the maintenance level of your program. For help in finding the PTF ID, see *z/OS SMP/E User's Guide*.

To get the maintenance level of your program:

1. Specify the Infoprint Server release number as a 3-digit code. For example:

   - 705 represents IP PrintWay basic mode
   - 7C0 represents the z/OS V2R4 level of Infoprint Server

2. From the CSI listing, specify the ID, preceded by the prefix UY, UW, or UZ, of the latest PTF applied to your Infoprint Server program. Use the PTF number as a keyword only if you suspect that the PTF caused the problem.

3. The format of the keyword string might now be:

```
569504002 WAIT APIPPPFT DIRECT 7C0
```

Search argument procedure

You now have the information that is needed for an effective search of the problem listings in the IBM Software Support Facility. If you do not have access to the IBM Software Support Facility, consult your IBM Support Center.

To search the problem listings by using a search tool such as Info Access:

1. Search the IBM Software Support Facility, by using the full keyword string that you developed.
2. From the list of matches, skip any APAR fixes or PTFs that are already applied to your system.
3. Compare each remaining APAR or PTF closing description with the problem symptoms you observed.
4. If you find a match and a fix, apply the fix that is described in the APAR record, and test the fix.
5. If you find a match but no fix, ask your IBM representative to notify you when a fix becomes available.
6. If you find no match, broaden the search by dropping keywords one at a time from the right side of the search argument, and repeat the search.
7. If you still cannot find a match, consult your IBM Support Center.

Preparing APARs

If the diagnostic procedures described here are followed, but the keyword search is unsuccessful, then and only then is an authorized program analysis report (APAR) prepared.

Procedure

To prepare an APAR:

1. Initiating an APAR

   If, after you contacted your IBM Support Center for assistance, no fix for your problem is found, an IBM specialist will contact you to diagnose the problem in more detail. If the problem is a new one, the specialist initiates an APAR. Be prepared to supply this information:

   • Customer number

   • Release level

   • Current service level (the PTF list and list of APAR fixes applied)

   • Keyword string or strings that are used to search IBM Software Support Facility

   • Processing unit number: serial number, type, and model

2. Gathering information for an APAR

   You might be asked to supply any or all of this information to describe the environment of the Infoprint Server problem:

   • A description of the problem

   • The SMP/E PTF identification number

   • As small a segment of the input statements and data as is sufficient to reproduce the problem

   • As small a segment of the output as is sufficient to illustrate the problem

   • Any traces or storage dumps that you used to diagnose the problem

   • Terminal operator log (or the control statement listing from the library)

   • A full listing of the JCL used

   • Any printed output of data that is related to the job or data set in error, such as data set error messages

   • A copy of the host system log

   • For a WAIT problem (if possible), the program module that is waiting

   • For a LOOP problem, the location of the loop or at least a partial trace of the loop

   • For a DOC problem, the location of the error and a description of the problem it caused

   • For a PERFM problem, a description of the actual performance and the expected performance, and the source of the performance specification

3. Submitting the information

   For information about how to submit information for an APAR to IBM, ask your IBM service representative.

Chapter 7. Using Infoprint Server diagnostic tools

The Infoprint Server trace facility, which you can use to provide information to your service representative in the IBM Support Center, is described here.

The trace facility can be used to diagnose problems with:

- Infoprint Central
- IP PrintWay extended mode
- Infoprint Server ISPF panels
- The **lp**, **lpstat**, and **cancel** commands
- NetSpool daemon **aopnetd**
- Print Interface, including the Print Interface LPD and IPP server
- Printer Inventory Manager
- Transform Interface

Submitting APARs

Report any difficulties that you have using Infoprint Server to your IBM Support Center. If an APAR is required, the Support Center can tell you where to send the required diagnostic information.

When you submit an APAR, use the component ID shown in .

Tracing Infoprint Server

The service representative in the IBM Support Center might ask you to run a trace to aid in diagnosing a problem. If so, the representative tells you how and where to send the trace information. You do not have to interpret the trace. Send it to your service representative.

The Infoprint Server trace facility controls tracing with either z/OS UNIX System Services environment variables or Printer Inventory tracing parameters. When an Infoprint Server daemon is started, it uses the environment variables for tracing. However, if any of the Printer Inventory tracing parameters are set for a daemon, Infoprint Server then ignores the tracing environment variables and uses only the tracing parameters in the Printer Inventory.

Note: Tracing slows performance considerably. Turn tracing on for only the time necessary to capture the error.

Controlling tracing with environment variables

When tracing is controlled by environmental variables, the daemon that is traced must be stopped and restarted for the environment variable to take effect.

Important: When an Infoprint Server daemon is started, it uses the environment variables for tracing. However, if any of the Printer Inventory tracing parameters are set for a daemon, Infoprint Server then ignores the tracing environment variables and uses only the tracing parameters in the Printer Inventory.

These z/OS UNIX System Services environment variables control tracing:

AOPTRACEON
Set this variable to any value to turn on tracing. Unset this variable to turn tracing off.

> **Tip:** Setting this variable to any value, even to Off, turns on tracing.

Examples:

```
AOPTRACEON=1
AOPTRACEON=ON
```

If AOPTRACEON is turned on, Infoprint Server traces all daemons that were started after the variable was set. "Start tracing with AOPTRACEON" on page 453 explains how to limit the trace to a specific Infoprint Server daemon.

If you are tracing Infoprint Central, AOPTRACEON creates a trace file in the directory that AOPTRACEDIR specifies and writes additional presentation layer tracing to the error log that is specified by the IBM HTTP Server - Powered by Apache ErrorLog directive.

Depending on the Infoprint Server component you are using, you can use these environment variables to optionally add data to the trace:

AOPTRACEON_DATA
Includes socket data in the trace. The default is off.

AOPTRACEON_EXITMAP
Includes IP PrintWay extended mode exit data in the trace. The default is off.

AOPTRACEON_FILTER
Includes IP PrintWay extended mode filter data in the trace. The default is off.

AOPTRACEON_MSGLOG
Includes message logging data in the trace. The default is off.

Examples:

- ```
  AOPTRACEON=1
  AOPTRACEON_DATA=1
  ```

- ```
  AOPTRACEON=1
  AOPTRACEON_EXITMAP=ON
  ```

- ```
  AOPTRACEON=ON
  AOPTRACEON_FILTER=1
  ```

- ```
  AOPTRACEON=ON
  AOPTRACEON_MSGLOG=ON
  ```

AOPTRACEBYTES
Specify the maximum size of the trace file. This environment variable is optional. The default is 50 MB. If the size of the trace file exceeds the maximum size that you specified, Infoprint Server creates a new trace file.

Example: AOPTRACEBYTES=25000000

AOPTRACEDIR
Specify the directory where trace files are created. This environment variable is optional, except if you are tracing Infoprint Central. If this variable is not defined, trace files are created in default directory /var/Printsrv/trace/.

The requirements are:

Except for Infoprint Central
The AOPADMIN group must have permission to write to the specified trace directory, and the trace directory must exist.

For Infoprint Central
The user ID of the user who starts the IBM HTTP Server - Powered by Apache must have permission to write to the specified trace directory, and the trace directory must exist.

Example: AOPTRACEDIR=/mydirectory/trace

AOPTRACEMAXFILES

   Specify the number of trace files to be kept for each instance of a process. This environment variable is optional. The default is 2 per process. If the number of trace files exceeds the number you specified, Infoprint Server deletes the oldest file. Each time that you stop and restart Infoprint Server, it resets the number of trace files for each daemon.

   Example: AOPTRACEMAXFILES=5

Tips:

1. If you want all trace files to be created in the same directory, either do not specify the AOPTRACEDIR variable (all trace files are created in the default directory), or specify the same directory in both the **aopstart** EXEC and any other process you are tracing.

2. To find out whether the AOPTRACEON variable is set in the z/OS UNIX shell, use the z/OS UNIX **export** and **grep** commands to look at the value of the AOPTRACEON variable:

```
export | grep AOPTRACEON
```

   Results:

   - If AOPTRACEON is not set, the **export** and **grep** commands do not return any output.
   - If AOPTRACEON is set, the **export** and **grep** commands return the AOPTRACEON value or AOPTRACEON="".

Controlling tracing with the Printer Inventory

As an option, the Infoprint Server trace facility can use cross-system coupling facility (XCF) signaling to adjust trace parameters dynamically while the target daemon is running. With dynamic tracing, you can start and stop tracing for Infoprint Server daemons with the Printer Inventory instead of with environment variables. With the Printer Inventory, you can limit what you trace. For example, you can do a general trace on one or more daemons, or you can trace socket, exit, filter, or message log data without doing a general trace.

Note: Dynamic tracing is not used with IP PrintWay basic mode or with Infoprint Server commands, such as **lp** and **aopsend**.

For dynamic tracing, the trace facility uses parameters in the **trace-parameters** object that are defined on the ISPF System Configuration panel or PIDU. If any of the dynamic tracing parameters are set for a daemon, Infoprint Server ignores the tracing environment variables and instead uses the equivalent dynamic tracing parameters. If you add or modify a dynamic tracing parameter on the ISPF Infoprint Server System Configuration panel, the new value takes effect immediately; you do not need to restart the Infoprint Server daemon. You can also use PIDU to add or modify dynamic tracing attributes. If you use PIDU, you must do one of these actions to make the change effective:

- Stop the daemon and restart Infoprint Server.
- Enter aopsend -c updatetrace -m *member-name*.

   member_name indicates one or all daemons. The values are:

   all
      All daemons that are currently running.

   aopibm00
      The Printer Inventory Manager daemon, **aopd**.

   ippibm00
      The Internet Printing Protocol (IPP) Server daemon, **aopippd**.

   lpdibm00
      The line printer daemon (LPD), **aoplpd**.

   netibm00
      The NetSpool daemon, **aopnetd**.

outibm00

>The IP PrintWay extended mode daemon, **aopoutd**.

ssiibm00

>The Infoprint Central daemon, **aopssid**.

subibm00

>The Print Interface subsystem daemon, **aopsubd**.

wsmibm00

>The IP PrintWay extended mode daemon, **aopwsmd**.

xfdibm00

>The Infoprint Server Transform Manager daemon, **aopxfd**.

For information about using PIDU and the **aopsend** command, see *z/OS Infoprint Server Operation and Administration*.

To use the dynamic tracing parameters on the ISPF System Configuration panel, you must customize Infoprint Server by adding the AOPICXCF program to authorization lists in the IKJTSOxx member of SYS1.PARMLIB. For information about customizing Infoprint Server for dynamic tracing, see *z/OS Infoprint Server Customization*.

Figure 6 on page 450 shows an example of dynamic tracing parameters on the ISPF Infoprint Server System Configuration panel.

```
                      Infoprint Server: System Configuration

 Startup Information:
    / Resolve IP PrintWay printers
    Base directory  . . . . . . . . /var/Printsrv                  (extend)
    Printer Inventory name  . . . . AOP1
    JES subsystem name  . . . . . .
    XCF group name  . . . . . . . . AOPAOP1
    Started daemons:
         ippd      / lpd          netd         outd
         ssid        subd         xfd

 General:
    Operating mode . . . . . . . . . . . . . . 1  1. z/OS 2.1  2. z/OS 2.2
    Job ID prefix  . . . . . . . . . . . . . . PS
    _ Allow all characters in line data

 Code Pages:
    ASCII   . . ISO8859-1
    EBCDIC  . . IBM-1047

 Messages:
    Log retention period (days)  . . . . . . . 1
    Maximum Historical Inventory size (MBs)  . 10
    Log stream name  . . . . . . . . . . . . . _____
    Send messages to hardcopy log  . . . . . . 3  1. All  2. List  3. None
    Message list for hardcopy log  . . . . . . _____  _____     (more)

 Tracing:
    Daemon type:       AOP  IPP  LPD  NET  OUT  SSI  SUB  WSM  XFD  IPC
    Trace type:
    General  . . . . . /    _    _    _    /    _    _    _    _    /
    Data . . . . . . . _    _    _    _    _    _    _    _    _    /
    Message log  . . . _    _    _    _    _    _    _    _    _    /
    Filter . . . . . . _    _    _    _    _    _    _    _    _    _
    Exit . . . . . . .
    Trace size (MBs) . 50   50   50   50   50   50   50   50   50   75
    Number of files  . 2    2    2    2    2    2    2    2    2    3
    Trace directory name . . .  /var/Printsrv/trace
(extend)
.
.
.
```

Figure 6. Tracing parameters on the Infoprint Server: System Configuration panel

The tracing parameters are selected for these daemon types:

AOP

The Printer Inventory Manager daemon, **aopd**.

IPC

The IBM HTTP Server daemon, which communicates between Infoprint Central and the web browser.

IPP

The Internet Printing Protocol (IPP) Server daemon, **aopippd**, which processes print jobs that are submitted by an IPP client.

LPD

The line printer daemon (LPD), **aoplpd**, which processes print jobs that are submitted with commands, such as **lpr**, and Infoprint Port Monitor for Windows.

NET

The NetSpool daemon, **aopnetd**, which supports printing from VTAM applications, such as CICS and IMS.

OUT

The IP PrintWay extended mode daemon, **aopoutd**, which selects output data sets from the JES spool and sends them to remote printers in an Internet Protocol network or to email destinations.

SSI

The Infoprint Central daemon, **aopssid**.

SUB

The Print Interface subsystem daemon, **aopsubd**, which processes output data sets when the DD JCL statement requests the subsystem on the SUBSYS parameter.

WSM

The IP PrintWay extended mode daemon, **aopwsmd**, which looks for new jobs on the JES spool and notifies **aopoutd**.

XFD

The Infoprint Server Transform Manager daemon, **aopxfd**.

shows the ISPF parameters and PIDU attributes that control dynamic tracing.

Table 24. Printer Inventory parameters for dynamic tracing		
ISPF Panel	**PIDU**	**Description**
Number of files	tracefiles	Specifies the number of trace files that are kept for a daemon. **Values:** 1-9999 The default is 2. **Notes:** 1. The trace data is appended to the file in the order it is traced. 2. If the number of trace files exceeds the number that is specified, Infoprint Server deletes the oldest file. 3. This parameter takes the place of the AOPTRACEMAXFILES environment variable.

ISPF Panel	PIDU	Description
Trace directory name	tracedirectory	Specifies the directory where trace files are created for a daemon. The directory name is a valid combination of letters (a-z, A-Z), numbers ((0-9), and special characters (. /). Blanks are not allowed. The value is case-sensitive. The default is `/var/Printsrv/trace`. **Notes:** 1. The trace directory must exist and either the AOPADMIN group or, for Infoprint Central, the user ID of the user who starts the IBM HTTP Server - Powered by Apache must have permission to write to the specified trace directory. 2. This parameter takes the place of the AOPTRACEDIR environment variable.
Trace size (MBs)	tracemegabytes	Specifies the maximum size in megabytes (MBs) of trace files that are created for a daemon. **Values:** 1-9999 The default is 50. **Notes:** 1. When the maximum size is reached, Infoprint Server creates a new trace file. 2. This parameter takes the place of the AOPTRACEBYTES environment variable.

Trace type: Data
Values:
  / = Yes
  Blank = No
	tracedata
	Values:
	  yes
	  no
		Specifies whether socket data is traced for a daemon. The default is No.
		
		Note: This parameter takes the place of the AOPTRACEON_DATA environment variable.

Trace type: Exit
Values:
  / = Yes
  Blank = No
	traceexit
	Values:
	  yes
	  no
		Specifies whether IP PrintWay extended mode exit data is traced for a daemon. The default is No.
		
		Note: This parameter takes the place of the AOPTRACEON_EXITMAP environment variable.

Trace type: Filter
Values:
  / = Yes
  Blank = No
	tracefilter
	Values:
	  yes
	  no
		Specifies whether IP PrintWay extended mode filter data is traced for a daemon. The default is No.
		
		Note: This parameter takes the place of the AOPTRACEON_FILTER environment variable.

Trace type: General
Values:
  / = Yes
  Blank = No
	traceon
	Values:
	  yes
	  no
		Specifies whether a general trace is done on an Infoprint Server daemon. The default is No.
		
		Note: This parameter takes the place of the AOPTRACEON environment variable.

Table 24. Printer Inventory parameters for dynamic tracing (continued)

Table 24. Printer Inventory parameters for dynamic tracing (continued)		
ISPF Panel	**PIDU**	**Description**

Trace type: Message log
Values:
  / = Yes
  Blank = No
	tracemsg
	Values:
	  yes
	  no
		Specifies whether message logging data is traced for a daemon. The default is No.
		
		Note: This parameter takes the place of the AOPTRACEON_MSGLOG environment variable.

Tracing Infoprint Server daemons

You can use environment variables or the Printer Inventory to start and stop trace processing in Infoprint Server daemons. Printer Inventory parameters that are set to control tracing override any environment variables that are set.

Start traces for Infoprint Server daemons

You can start tracing Infoprint Server daemons with the AOPTRACEON environment variable or dynamic tracing parameters in the Printer Inventory.

Start tracing with AOPTRACEON

To start tracing one of the Infoprint Server daemons with the AOPTRACEON environment variable:

1. Stop the Infoprint Server daemon that you want to trace by using one of these methods:
   - Enter the MVS START command to run the AOPSTOP JCL procedure to stop the daemon:

     ```
     START AOPSTOP,OPTIONS='-d lpd'
     ```

   - Enter the MVS STOP command to stop the daemon:

     ```
     STOP AOPLPD
     ```

   - Enter the z/OS UNIX **aopstop** command to stop the daemon:

     ```
     aopstop -d lpd
     ```

   Warning: When you stop the IP PrintWay extended mode daemons, all printers that were stopped or redirected are reset. When IP PrintWay extended mode is restarted, those printers are no longer stopped or redirected.

2. Specify the AOPTRACEON environment variable and then restart the daemon by using one of these methods:
   - Specify AOPTRACEON in the AOPSTART JCL procedure. Create an MVS data set; for example, named TRACE.ENV with these DCB attributes:
     - RECFM=VB
     - LRECL=255

     or

     - RECFM=FB
     - LRECL=80

In the data set, specify the AOPTRACEON variable. Start in the first column, and do not code any blank characters in the string or at the end of the line:

```
AOPTRACEON=1
```

Specify the TRACE.ENV data set in the AOPSTART JCL procedure:

```
//STDENV DD DSN=TRACE.ENV,DISP=SHR
```

Then, enter the MVS START command to run the AOPSTART JCL procedure:

```
START AOPSTART
```

- Set the AOPTRACEON environment variable on the z/OS UNIX command line before you enter the **aopstart** command. Use the **export** command to set AOPTRACEON, or specify AOPTRACEON on the same command line as the **aopstart** command. When you specify AOPTRACEON on the same command line, the AOPTRACEON variable is set only for this instance of the **aopstart** command.

```
export AOPTRACEON=1
aopstart
```

Tip: To set AOPTRACEON only for one command, set the variable on the same line as the command:

```
AOPTRACEON=1 aopstart
```

For information about how to edit the AOPSTART JCL procedure, see *z/OS Infoprint Server Customization*.

Tip: You can use other environment variables to optionally add data to the trace, such as AOPTRACEON_DATA=1 or AOPTRACEON_FILTER=1.

Examples:

- Tracing IP PrintWay extended mode daemons:

  1. Enter the MVS START command to run the AOPSTOP JCL procedure to stop the daemons:

  ```
  START AOPSTOP,OPTIONS='-d outd'
  ```

  2. Put AOPTRACEON=1 in the STDENV data set for the AOPSTART JCL procedure.
  3. Enter the MVS START command to run the AOPSTART JCL procedure to restart the daemons:

  ```
  START AOPSTART
  ```

- Tracing the NetSpool daemon

  1. Enter the MVS START command to run the AOPSTOP JCL procedure to stop the daemon:

  ```
  START AOPSTOP,OPTIONS='-d netd'
  ```

  2. Put AOPTRACEON=1 in the STDENV data set for the AOPSTART JCL procedure.
  3. Enter the MVS START command to run the AOPSTART JCL procedure to restart the daemon:

  ```
  START AOPSTART
  ```

Start tracing with the Printer Inventory

To start tracing Infoprint Server daemons with the Printer Inventory, use one of these methods:

ISPF dynamic tracing parameters

  1. Customize Infoprint Server for dynamic tracing. See *z/OS Infoprint Server Customization*.

2. On the Infoprint Server Printer Inventory Manager ISPF panel, select **8 System** and press **Enter**. If you have authority to edit parameters, the Infoprint Server System Configuration panel (see Figure 6 on page 450) is displayed in Edit mode. Otherwise, the panel is displayed in Browse mode.

3. Select the trace types for the daemons you want to trace and, optionally, change the values for **Trace size**, **Number of files**, and **Trace directory name** if you do not want to use the defaults.

   Notes:

   a. Tracing slows performance considerably. Turn tracing on only for trace types and daemons that are necessary to capture the error.

   b. To display help information about each field, place the cursor on the value area of the field and press the HELP function key.

   c. If you see message AOPIM017 Check IKJTSOxx., you must customize Infoprint Server for dynamic tracing.

4. (Optional) To validate the fields before you save the panel, press **Enter**.

5. Press the END function key to save the dynamic tracing changes. The changes take effect as soon as you save them.

PIDU

1. Set the attributes in the **trace-parameters** object to yes for the daemons you want to start tracing. See Table 24 on page 451 for the PIDU trace attributes.

2. For all daemons except the IBM HTTP Server daemon, do one of the following actions to make the attribute changes effective and start the trace:

   • Stop the daemon and restart Infoprint Server.

   • Enter aopsend -c updatetrace -m *member_name*. See "Controlling tracing with the Printer Inventory" on page 449 for the *member_name* values.

Stop traces for Infoprint Server daemons

You can stop tracing Infoprint Server daemons with the AOPTRACEON environment variable or dynamic tracing parameters in the Printer Inventory.

Stop tracing with AOPTRACEON

To stop tracing one of the Infoprint Server daemons with the AOPTRACEON environment variable:

1. Stop the daemon that is being traced by using one of these methods:

   • Enter the MVS START command to run the AOPSTOP JCL procedure to stop the daemon:

   ```
   START AOPSTOP,OPTIONS='-d lpd'
   ```

   • Enter the z/OS UNIX **aopstop** command to stop the daemon:

   ```
   aopstop -d lpd
   ```

   Warning: When you stop IP PrintWay extended mode daemons, all printers that were stopped or redirected are reset. When IP PrintWay extended mode is restarted, those printers are no longer stopped or redirected.

2. Unset the AOPTRACEON variable, and then restart the daemon. Use one of these methods:

   • If you use the AOPSTART JCL procedure to restart the daemon:

   a. Comment out the STDENV DD statement in the AOPSTART JCL procedure.

b. Enter the MVS START command to run the AOPSTART JCL procedure:

```
START AOPSTART
```

- If you use the z/OS UNIX **aopstart** command to restart the daemon:

a. Unset the AOPTRACEON variable. You need to unset AOPTRACEON only if it is set in the z/OS UNIX shell. The variable is set in the shell if you used the **export** command to set it.

```
unset AOPTRACEON
```

b. Restart the daemon:

```
aopstart
```

Stop tracing with the Printer Inventory

To stop tracing Infoprint Server daemons with the Printer Inventory, use one of these methods:

ISPF dynamic tracing parameters

1. Customize Infoprint Server for dynamic tracing. See *z/OS Infoprint Server Customization*.
2. On the Infoprint Server Printer Inventory Manager ISPF panel, select **8 System** and press **Enter**. If you have authority to edit parameters, the Infoprint Server System Configuration panel (see Figure 6 on page 450) is displayed in Edit mode. Otherwise, the panel is displayed in Browse mode.
3. Clear trace type selections for the daemons you want to stop tracing.

   Notes:

   a. To display help information about each field, place the cursor on the value area of the field and press the HELP function key.
   b. If you see message AOPIM017 Check IKJTSOxx., you must customize Infoprint Server for dynamic tracing.
4. (Optional) To validate the fields before you save the panel, press **Enter**.
5. Press the END function key to save the dynamic tracing changes. The changes take effect as soon as you save them.

PIDU

1. Set attributes in the **trace-parameters** object to no for the daemons you want to stop tracing. See Table 24 on page 451 for the PIDU trace attributes.
2. For all daemons except the IBM HTTP Server daemon, do one of the following actions to make the attribute changes effective and stop the trace:

   - Stop the daemon and restart Infoprint Server.
   - Enter aopsend -c updatetrace -m *member_name*. See "Controlling tracing with the Printer Inventory" on page 449 for the *member_name* values.

Tracing the lp, lpstat, or cancel commands

Turning on trace

To trace the **lp**, **lpstat**, or **cancel** command:

1. Set the AOPTRACEON variable:

```
export AOPTRACEON=1
```

2. Enter the **lp** command:

```
lp ...
```

Tip: To set AOPTRACEON only for one command, set the variable on the same line as the command:

```
AOPTRACEON=1 lp ...
```

Turning off trace

To stop tracing the **lp**, **lpstat**, or **cancel** command:

1. Unset the AOPTRACEON variable. You need to unset AOPTRACEON only if it is set in the z/OS UNIX shell. The variable is set in the shell if you used the **export** command to set it.

```
unset AOPTRACEON
```

2. Reenter the command:

```
lp ...
```

Tracing the AOPPRINT procedure

Turning on trace

To trace the AOPPRINT procedure, specify the AOPTRACEON=1 environment variable in the STDENV DD statement in the procedure. You can specify AOPTRACEON in-stream. Start in the first column, and do not code any blanks in the string or at the end of the line:

```
//STDENV DD *
AOPTRACEON=1
```

Turning off trace

To stop tracing the AOPPRINT procedure, comment out the AOPTRACEON=1 environment variable in the STDENV DD statement in the procedure:

```
//STDENV DD *
#AOPTRACEON=1
```

If the STDENV DD statement points to a data set, comment out the STDENV DD statement in the procedure.

Tracing Infoprint Central

You can start and stop a trace of the IBM HTTP Server daemon, which communicates between Infoprint Central and the web browser. The following procedures show examples for specifying environment variables in the HTTP server environment file, `bin/envvars`. To use the Printer Inventory to start and stop Infoprint Central traces, see "Start tracing with the Printer Inventory" on page 454 and "Stop tracing with the Printer Inventory" on page 456.

Turning on trace

1. Stop the IBM HTTP Server - Powered by Apache.
2. Specify the AOPTRACEON=1 and the AOPTRACEDIR environment variables in the HTTP server environment file, `bin/envvars`. The user ID of the user who starts the HTTP server must have permission to write to the trace directory specified in AOPTRACEDIR, and the trace directory must

exist. For information about setting environment variables in the HTTP server environment file, see *z/OS Infoprint Server Customization*.

Example:

```
export AOPTRACEON=1
export AOPTRACEDIR=/mydirectory/trace
```

3. If the **use-httpd-userid** attribute is set to **yes**, start Apache tracing so that the HTTPD server user ID owns the Apache trace file and the Java log files for Infoprint Central. If **use-httpd-userid** is set to **no**, the first user to log in to Infoprint Central owns these files.
4. Restart the HTTP server.

Turning off trace

1. Stop the IBM HTTP Server - Powered by Apache.
2. Comment out the AOPTRACEON=1 and the AOPTRACEDIR environment variables in the HTTP server environment file, `bin/envvars`. To comment out an environment variable, use a # symbol at the beginning of the variable.

Example:

```
#export AOPTRACEON=1
#export AOPTRACEDIR=/mydirectory/trace
```

3. Restart the HTTP server.

Changing the trace directory

To change the trace directory that you are using, follow one of these methods.

Using environment variables

To change the trace directory that is used when you trace an Infoprint Server daemon, specify the AOPTRACEDIR environment variable before you restart the daemon. For information about setting environment variables, see *z/OS Infoprint Server Customization*.

To change the trace directory that is used when you trace another Infoprint Server process, such as a command, specify the AOPTRACEDIR environment variable together with the AOPTRACEON variable. For example, if you want to trace the **lp** command and direct trace files to /mydirectory/trace, enter these z/OS UNIX commands:

```
export AOPTRACEDIR=/mydirectory/trace
export AOPTRACEON=1
lp ...
```

To return to using the default trace directory, `/var/Printsrv/trace/`, use the z/OS UNIX **unset** command:

```
unset AOPTRACEDIR
```

Using the Printer Inventory

To change the trace directory that is used when you trace an Infoprint Server daemon, follow one of these methods:

ISPF dynamic tracing parameter

1. Customize Infoprint Server for dynamic tracing. See *z/OS Infoprint Server Customization*.

2. On the Infoprint Server Printer Inventory Manager ISPF panel, select **8 System** and press **Enter**. If you have authority to edit parameters, the Infoprint Server System Configuration panel (see Figure 6 on page 450) is displayed in Edit mode. Otherwise, the panel is displayed in Browse mode.

3. Change the **Trace directory name** field from the default, `/var/Printsrv/trace`, to the directory name that you want to use.

   Notes:

   a. The trace directory must exist and either the AOPADMIN group or, for Infoprint Central, the user ID of the user who starts the IBM HTTP Server - Powered by Apache must have permission to write to the specified trace directory.

   b. If you see message AOPIM017 Check IKJTSOxx., you must customize Infoprint Server for dynamic tracing.

4. (Optional) To validate the field before you save the panel, press **Enter**.

5. Press the END function key to save the change. The change takes effect as soon as you save it.

PIDU

1. Set the **tracedirectory** attribute in the **trace-parameters** object to the directory that you want to use. See Table 24 on page 451 for the PIDU trace attributes.

   Note: The trace directory must exist and either the AOPADMIN group or, for Infoprint Central, the user ID of the user who starts the IBM HTTP Server - Powered by Apache must have permission to write to the specified trace directory.

2. Do one of these to make the directory change effective:

   • Stop the daemon and restart Infoprint Server.

   • Enter `aopsend -c updatetrace -m` *member_name*. See "Controlling tracing with the Printer Inventory" on page 449 for the *member_name* values.

Finding the trace file

The trace facility creates a separate trace file for each Infoprint Server process traced:

• Daemon trace files are named:

userid.daemon_name.process_id.uniqueidentifier.tracefile#

For example:

```
MACBETH.aopd.pid66297.BA71F05F29707301.1
```

• Command trace files (for example, the trace file for the **lp** command) are named:

userid.process_id.uniqueidentifier.tracefile#

For example:

```
MACBETH.pid50397251.BA71F08C5514A644.1
```

The variables in the trace file names are:

userid
    The TSO user ID of the person who initiated the trace.

daemon_name
    The name of the daemon that is traced, if applicable.

process_id
    The ID of the process that is created in z/OS UNIX to create the trace.

unique identifier
> The time the trace was created. This value is the result of the STCK (Store Clock) processing instruction. The value is displayed in hexadecimal format as a character string.

tracefile#
> The number of the trace file. If the size of the trace file exceeds the maximum size that is specified in AOPTRACEBYTES environment variable or **Trace size (MBs)** parameter in the Printer Inventory, Infoprint Server creates a new file that has the same name (including the unique identifier) except that *tracefile#* is incremented by 1. If the number of trace files exceeds the number that is specified in AOPTRACEMAXFILES environment variable or **Number of files** parameter in the Printer Inventory, Infoprint Server deletes the oldest file.

Finding the transform stderr file

If problems are encountered during program operation, the transforms produce error messages. The messages that indicate problems with the transforms or with transform configuration are directed to the system administrator. Some transforms write these messages to the transform's `stderr` file.

You can find a transform's `stderr` file in the directory that is named *base-directory*/`xfd`, where *base-directory* is determined by the value of the **base-directory** attribute in the Infoprint Server configuration file (`aopd.conf`). The default base directory is named `/var/Printsrv`.

The `stderr` file-naming convention is:

```
transform[_class].#.stderr
```

transform
> Specifies the transform name, which is defined in the Infoprint Server Transform Manager configuration file, `aopxfd.conf`. For example, `afpxpcl` or `pcl2afp`.

class
> Specifies the transform class, which is specified in the **-c** option when the transform is called. Transform classes are defined in the Infoprint Server Transform Manager configuration file, `aopxfd.conf`.

#
> A unique number that the transform assigns. This number is incremented each time a new transform is started.

The transforms from AFP let you redirect `stderr` output with the **-F** transform option. For information about the **-F** option, see *IBM Print Transforms from AFP for Infoprint Server for z/OS*.

Tip: To read the transform's `stderr` file, you must be a member of the AOPADMIN group. For information about how to establish security for Infoprint Server administrators, see *z/OS Infoprint Server Customization*.

ISPF trace

The Printer Inventory Manager can trace the processing in the Printer Inventory Manager panel modules during an interactive ISPF session. You can turn tracing on and off from an ISPF panel. Tracing is usually used only for short periods of time to diagnose problems and collect information to forward to your service representative at the IBM Support Center.

The Printer Inventory Manager writes the ISPF trace to a separate hierarchical flat file–an HFS or a z/OS file system (zFS)–for each ISPF session. If you turn tracing on and off during the same ISPF session, the Printer Inventory Manager appends trace records to the HFS or zFS file. The Printer Inventory Manager creates the trace file in directory `/var/Printsrv/trace`, unless you specify a different directory name when you start the trace. The name of the trace file that the Printer Inventory Manager creates is *userid.process_id.uniqueidentifier.tracefile#*:

userid
> Specifies the TSO user ID of the person who initiated the ISPF session.

process_id
> Specifies the ID of the UNIX process that is started for the ISPF panel session.

uniqueidentifier
> The time the trace was created. The value is displayed in hexadecimal format as a character string.

tracefile#
> The number of the trace file.

Setting the ISPF trace on and off

You can set the trace option on or off at any time during an ISPF session. To set the trace option on or off:

1. On the Infoprint Server: Printer Inventory Manager panel:

   a. Type 7 on the option line to select 7 `Configure`.

   b. Press **Enter**.

```
                   Infoprint Server: Printer Inventory Manager
Option ===> 7

Printer Definitions
   1 Add              Add a printer definition
   2 List             List printer definitions
   3 Select           Select printer definitions to list

Other Functions
   4 Other Definitions Manage FSS, FSA, pool, and job selection definitions
   5 PrintWay Queue   View IP PrintWay basic mode transmission queue
   6 PrintWay Message View IP PrintWay basic mode message log

Infoprint Server Configuration
   7 ISPF             Change ISPF panel configuration
   8 System           Manage system configuration
```

2. On the Configuration panel:

   a. Select (with a slash [/]) or clear the **Trace Printer Inventory ISPF internals** field.

   b. Specify the fully qualified name of an existing directory. To return to the default directory, clear the **ISPF trace directory** field.

   c. To save the trace option and name of the directory, and exit the panel, press the END function key or enter END on the command line.

   d. To save the trace options without closing the panel, press **Enter**.

   e. To close the panel without saving the trace options, enter CANCEL on the command line.

```
                   Infoprint Server: ISPF Panel Configuration
Command ==>_____

/  Confirm delete requests
/  Trace Printer Inventory ISPF internals
ISPF trace directory . . /var/Printsrv/trace
Configuration file . . . /etc/Printsrv/aopd.conf
NLS path . . . . . . . . /usr/lpp/Printsrv/%L/%N
Language . . . . . . . . En_US

LP Command:
   Default printer . . . lp1

IP PrintWay basic mode:
   Message log . . . . . ANF.MESSAGE
   Trace data set. . . . USER1.ANFISPF.TRACE
```

3. Be sure to turn tracing off when you are done. Tracing remains on during your next Infoprint Server ISPF session unless you turn tracing off.

Database diagnostic tools

Commands

You can use these commands to write the objects from various databases to a file:

aoplogu -d
Log daemon to dump the contents of the common message log database to the `stdout` file.

hinvu -d
Historical Inventory daemon to dump the contents of its database to the `stdout` file.

pidu -c 'dump *filename***; '**
Printer Inventory Definition Utility (PIDU) to dump all the objects in the Printer Inventory to the file you specify.

sdbu -d
Search daemon to dump the contents of all of its databases to the `stdout` file.

You can redirect stdout to an HFS or z/OS file system (zFS) file. For example:

```
aoplogu -d > /tmp/log.dump
hinvu -d > /tmp/hinv.dump
sdbu -d > /tmp/sdb.dump
```

The **pidu** dump command writes to an HFS or zFS file or an MVS data set. It does not write to `stdout`. For example:

```
pidu -c 'dump /tmp/inventory.dump;'
```

Environment variable

The service representative in the IBM Support Center might ask you to set the AOPDUMPON environment variable to capture more detailed dump information for internal errors. If so, the representative tells you how and where to set the variable, and where to send the dump information.

Using IPP server diagnostic information

The Print Interface IPP server writes diagnostic information to file `ipp.out` in the directory that is specified in the **base-directory** attribute in the Infoprint Server configuration file (`aopd.conf`). The default base directory is `/var/Printsrv`.

The IPP server always writes diagnostic information to the `ipp.out` file, regardless of whether tracing is set. If the AOPTRACEON environment variable or **General** parameter in the Printer Inventory is set, the IPP server also writes trace information to the `/var/Printsrv/trace` directory.

Chapter 8. Using IP PrintWay basic mode diagnostic tools

The diagnostic tools that you can use to collect information about software problems in IP PrintWay basic mode are described here. These tools can provide useful information to your service representative in the IBM Support Center.

The diagnostic tools describe how to:

- Submit APARs.
- Trace IP PrintWay basic mode.
- Obtain memory dumps for IP PrintWay basic mode.

Related information:

- For more information about z/OS diagnostic tools, see *z/OS MVS Diagnosis: Tools and Service Aids*.
- For information about how to trace IP PrintWay extended mode, see Chapter 7, "Using Infoprint Server diagnostic tools," on page 447.

Submitting APARs

Report any difficulties that you have using IP PrintWay to your IBM Support Center. If an APAR is required, the Support Center can tell you where to send the required diagnostic information.

When you submit an APAR, use one of these component IDs:

- 569504004: IP PrintWay basic mode
- 5647A010P: IP PrintWay extended mode

To determine whether IP PrintWay extended mode is running, enter this MVS operator command from the console:

```
d a,l
```

If **aopoutd** is active, IP PrintWay extended mode is running.

Tracing IP PrintWay basic mode

IP PrintWay basic mode provides these types of traces:

- An internal wrap trace
- An external trace that uses the Generalized Trace Facility (GTF)

You can start either trace at initialization time or dynamically while IP PrintWay is running.

The service representative in the IBM Support Center might ask you to run a trace to aid in diagnosing a problem. If so, the representative tells you how and where to send the trace information. You do not have to interpret the trace. Send it to your service representative.

For information about how to trace IP PrintWay extended mode, see Chapter 7, "Using Infoprint Server diagnostic tools," on page 447.

IP PrintWay basic mode internal wrap trace

The IP PrintWay basic mode internal trace contains hexadecimal entries for most module entries and exits. Trace data is maintained in internal storage, and it wraps when the trace storage area is full.

Because the internal trace wraps, it reflects only the most recent history of IP PrintWay processing. IBM suggests that internal tracing always is turned on. For more information, see "Starting a trace at IP PrintWay basic mode initialization" on page 465.

You can request an internal trace of one or more IP PrintWay functional subsystem applications (FSAs). When you request any external trace you receive an internal trace automatically.

The internal trace is maintained in internal storage and cannot be directed to an external data set. To see the trace, you must generate a dump of IP PrintWay internal storage. For more information about how to request a dump, see "Dumps for IP PrintWay basic mode" on page 475.

IP PrintWay maintains separate wrap traces for:

- The FSS. This trace has a fixed length of 1 K bytes (K equals 1024).
- Each FSA. This trace has a variable length from 4 K bytes to 3996 K bytes. For information about specifying the size of the FSA internal trace table, see "Setting FSS trace options in the FSS definition in the Printer Inventory" on page 465.
- The Transmission Queue Manager component.
- The Operator Interface component.

IP PrintWay basic mode external traces

For an external trace, IP PrintWay uses the services of the z/OS Generalized Trace Facility (GTF). The trace that is produced by GTF can contain z/OS system-level information and information that concerns IP PrintWay activity. For more information about GTF, see *z/OS MVS Diagnosis: Tools and Service Aids*.

You can start an external trace for the IP PrintWay FSS, and external traces for multiple FSAs. The number of FSAs that can be traced is limited to 16. Multiple external traces can be directed to a single GTF data set.

External tracing modes

You can request these modes of external traces. In this way, you can limit the amount of trace data.

- Full trace

  A full trace is the larger and more complete external trace. All IP PrintWay subcomponents are traced. All input records and TCP/IP commands are traced.

- Full, with no tracing of print records

  This trace provides the same information as the full trace. However, input records and TCP/IP commands are not traced.

You request the tracing mode when you start the trace, either at initialization or by using the MVS MODIFY operator command.

Tracing considerations

Consider these impacts when you select the tracing mode:

- Processor usage and throughput

  The FSA full external trace affects processor performance. Do not start a full external trace during peak processor usage. All other traces affect processor performance, but the impact is not as significant.

- Timing Considerations

  Activating any of the traces causes the timing relationships to change, possibly causing the problems to "disappear" when tracing is active. This is especially true for the full external trace. If a problem "disappears" when tracing, specify a different tracing mode, for example, a full trace with no tracing of print records.

Starting an IP PrintWay basic mode trace

You can request internal and external tracing by using one of these methods:

- Specify a trace option in the IP PrintWay FSS and FSA definitions in the Printer Inventory:

  – You can specify a trace option in the FSS definition to trace the IP PrintWay FSS and all FSAs in the FSS.

  – You can specify a trace option in the FSA definition to trace one IP PrintWay FSA.

  After you specify a trace option in an FSS or FSA definition, you must start (or restart) the IP PrintWay FSS or FSA for the trace option to take effect. Tracing starts when the FSS or FSA is initialized.

- Enter the MVS MODIFY command:

  – You can start and stop tracing all FSAs in an IP PrintWay FSS. The FSS must be started, but the FSAs that you want to trace must not be running.

  – You can start and stop tracing one IP PrintWay FSA. The FSA you want to trace must be running.

Before you start any IP PrintWay external trace, you must start the Generalized Trace Facility (GTF).

Tip: To trace the IP PrintWay FSS, including the queue manager function in the FSS, you must request a trace in the IP PrintWay FSS definition in the Printer Inventory, and you must not select the **Trace prompt** feature in the FSS definition.

Starting the Generalized Trace Facility

You must start a GTF trace before you start an IP PrintWay external trace. IP PrintWay writes trace output to the GTF trace data set.

When you start GTF, specify these GTF parameters:

- The USR=(FD1) trace parameter

  Specify this parameter to obtain the trace entries that are produced by IP PrintWay.

- The JOBNAME=*proc_name* parameter

  Specify this parameter to limit the trace entries to those that are produced by programs running in the IP PrintWay FSS address space. *proc_name* is the name of the IP PrintWay startup procedure.

For an example of how to start GTF, see Appendix A, "Starting the Generalized Trace Facility (GTF)," on page 483.

Starting a trace at IP PrintWay basic mode initialization

You can specify a trace option in the IP PrintWay FSS definition and FSA definition to start tracing when the IP PrintWay FSS or an individual FSA is initialized.

Setting FSS trace options in the FSS definition in the Printer Inventory

Tracing options that are specified in the IP PrintWay FSS definition take effect the next time the FSS is started.

To set the trace options for an FSS:

1. On the Infoprint Server: Printer Inventory Manager panel:

   a. Type 4 on the option line to select **4 Other Definitions**.

   b. Press **Enter**.

```
                      Infoprint Server: Printer Inventory Manager
Option ===> 4

Printer Definitions
    1 Add              Add a printer definition
    2 List             List printer definitions
    3 Select           Select printer definitions to list

Other Functions
    4 Other Definitions Manage FSS, FSA, pool, and job selection definitions
    5 PrintWay Queue    View IP PrintWay basic mode transmission queue
    6 PrintWay Message  View IP PrintWay basic mode message log

Infoprint Server Configuration
    7 ISPF              Change ISPF panel configuration
    8 System            Manage system configuration
```

2. On the FSA, FSS, Pool, and Job Selection Rule Management panel, type 5 on the option line to list FSSs.

```
                      FSA, FSS, Pool, and Job Selection Rule Management
Option ===> 5

FSA
    1 Add          Add an FSA
    2 List         List FSAs
    3 Select       Select FSAs to list

FSS
    4 Add          Add an FSS
    5 List         List FSSs
    6 Select       Select FSSs to list

Pool of Printer Definitions
    7 Add          Add a Pool
    8 List         List Pools
    9 Select       Select Pools to list

Job Selection Rule
   10 Add          Add a Job Selection Rule
   11 List         List Job Selection Rules
```

3. On the FSS List panel:

   a. To change the trace options for an FSS, type E for "Edit" in the space in front of the FSS.

   b. Press Enter.

```
                              FSS List                  Row 1 to 6 of 6
Command ===>  _____           Scroll ===> CSR

Actions:
  A-Add  B-Browse  C-Copy  D-Delete  E-Edit
A FSS Name Type Description
= ======== ==== ================================================================
E ASDF1    IPPW
_ ASFDA    IPPW
_ ASFDA    PSF
_ FSS1     IPPW PW one
_ FSS1     PSF  PSF one
_ OPIEFSS  PSF
******************************* Bottom of data ********************************
```

4. On the IP PrintWay FSS panel:

   a. Enter the number that corresponds to the desired trace mode in the **Trace mode** field. The default mode is **none**. For normal processing, select **Internal**.

   b. Select (with a /) or clear the **Trace prompt** field.

   If you select the **Trace prompt** field, message ANFM020A is displayed to the operator when the FSS starts. After the operator receives this message, the operator can enter the MVS MODIFY command to start tracing all FSAs in the FSS. Tracing of the FSAs start before any data sets are processed. The FSS, however, including the queue manager function, is not traced.

If you do not select the **Trace prompt** field, the tracing that is requested in the **Trace mode** field starts as soon as the FSS starts. Therefore, if you select a trace in the **Trace mode** field, the FSS, including the queue manager function are traced.

c. Enter a value for the **Trace table size**. Indicate the number, 1 - 999, of 4 KB pages of storage to allocate for each FSA trace table. For more information, see the help for the field.

d. Exit the panel to save your changes, or enter `cancel` on the command line to exit without saving your changes.

```
Edit                              IP PrintWay FSS

FSS name. . .  ASFDA___
Description ._____ (extend)

Trace mode. . . . . .  2   1. None  2. Internal  3. No printing  4. Full
     _ Trace prompt
     Trace table size .  ___
```

5. Be sure to turn tracing off or return to Internal tracing mode when you are done. Tracing remains on during your next IP PrintWay session unless you turn tracing off. Do not trace IP PrintWay during peak processing time.

Setting FSA trace options in the FSA definition in the Printer Inventory

All FSAs set to the default trace mode of None initialize with the same tracing mode set in the IP PrintWay FSS definition.

To change the trace mode for an individual FSA:

1. On the Infoprint Server: Printer Inventory Manager panel:

   a. Type 4 on the option line to select **4 Other Definitions**.

   b. Press **Enter**.

```
              Infoprint Server: Printer Inventory Manager
Option ===> 4

Printer Definitions
   1 Add              Add a printer definition
   2 List             List printer definitions
   3 Select           Select printer definitions to list

Other Functions
   4 Other Definitions Manage FSS, FSA, pool, and job selection definitions
   5 PrintWay Queue    View IP PrintWay basic mode transmission queue
   6 PrintWay Message  View IP PrintWay basic mode message log

Infoprint Server Configuration
   7 ISPF             Change ISPF panel configuration
   8 System           Manage system configuration
```

2. On the FSA, FSS, Pool, and Job Selection Rule Management panel, type 2 on the option line to list FSAs.

```
                        FSA, FSS, Pool, and Job Selection Rule Management
Option ===> 2

FSA
    1 Add           Add an FSA
    2 List          List FSAs
    3 Select        Select FSAs to list

FSS
    4 Add           Add an FSS
    5 List          List FSSs
    6 Select        Select FSSs to list

Pool of Printer Definitions
    7 Add           Add a Pool
    8 List          List Pools
    9 Select        Select Pools to list

Job Selection Rule
   10 Add           Add a Job Selection Rule
   11 List          List Job Selection Rules
```

3. On the FSA List panel:

   a. To change the trace options for an FSA, type E for "Edit" in the space in front of the FSA.

   b. Press Enter.

```
                              FSA List                    Row 1 to 7 of 7
Command ===> _____       Scroll ===> CSR

Actions:
  A-Add  B-Browse  C-Copy  D-Delete  E-Edit
A FSA Name Type    Description
= ======== ====== =============================================================
_ AAA1      IPPW
_ BBB       IPPW
_ FSA1      IPPW
E PRT630    IPPW*
_ PRT631    IPPW*
_ PRT632    PSFTCP op
_ PRT638    PSFTCP op4
****************************** Bottom of data *********************************
```

4. On the IP PrintWay FSA panel, select the **Trace mode**. The change will take effect the next time that FSA is started.

```
Edit                           IP PrintWay FSA
Command ==> _____

FSA Name. . .  PRT630___
Description . _____ (extend)

Trace mode . . 3  1. None  2. Internal  3. No printing  4. Full
```

5. Exit the panel to save your changes, or enter `cancel` on the command line to exit without saving your changes.

6. Return tracing to the default mode of **None** when you are done. Trace options remain set during your next IP PrintWay session unless you change them.

Starting a trace dynamically by using the MODIFY operator command

You can use the MVS MODIFY command to start FSA traces dynamically, that is, while IP PrintWay basic mode is running. You can start an external or internal trace for one FSA or for all FSAs in the FSS that are not yet started:

- To start an external trace for one FSA, specify the name of the FSA on the MODIFY command. The FSA must be started. Otherwise, the MODIFY command is rejected. Tracing begins immediately if the FSA is idle, or tracing begins when the next data set is processed.

- To start an external trace for all FSAs managed by the FSS that are not yet started, do not specify any FSA name on the MODIFY command. Tracing begins for each FSA when the FSA is started.

Tip: When you use the MODIFY command to start a trace dynamically, the trace does not trace FSS processing. To trace processing of the FSS, including IP PrintWay queue manager processing, you must specify the trace in the IP PrintWay FSS definition in the Printer Inventory and start tracing at initialization without using the trace prompt option. For more information, see "Starting a trace at IP PrintWay basic mode initialization" on page 465.

If you enter multiple MODIFY commands during IP PrintWay processing, each command overrides all parameters of the previous command if they both affect tracing of the same FSAs. Thus, to change only one characteristic of a trace, respecify values for the other parameters.

Use this syntax for the MODIFY or F command:

Syntax

```
{MODIFY | F} fss_name,TRACEON
      [,
         [ fsa_name]
         [,MODE=FULL | FULLNOPRT | INTERNAL]
      ]
```

Tip: The *fsa_name* is a positional parameter. If you omit it, and you want to specify the MODE parameter, enter a comma after TRACEON to indicate that the FSA name is omitted.

fss_name
Specifies the name of the FSS for which tracing is to be started. This is a required parameter.

fss_name parameter must match either:

- In a JES2 environment, the name in the JES FSS(*fss_name*) statement
- In a JES3 environment, the FSSNAME parameter of the JES FSSDEF statement

For information about JES statements, see *z/OS Infoprint Server Customization*.

TRACEON
Specifies that tracing is to begin. This is a required parameter.

fsa_name
Specifies the name of an FSA for which tracing is to begin. This is an optional parameter.

fsa_name must match either:

- In a JES2 environment, the JES PRT*nnnn* statement
- In a JES3 environment, the JNAME parameter of the JES DEVICE statement

For more information about JES statements, see *z/OS Infoprint Server Customization*.

If this parameter is omitted, tracing begins for all FSAs that are not yet started.

Example: This example shows how to start an internal trace for all FSAs that are not yet started.

```
MODIFY fss_name,TRACEON,,MODE=INTERNAL
```

MODE=FULL | FULLNOPRT | INTERNAL
The MODE parameter specifies the tracing mode:

FULL
Requests a full external and internal trace.

FULLNOPRT
Requests a full external and internal trace, without tracing of record processing.

INTERNAL

Requests only internal tracing. INTERNAL is the default. Internal tracing also occurs whenever external tracing is turned on. Therefore, specify MODE=INTERNAL only when you want internal tracing without external tracing.

Tip: If you specify MODE=INTERNAL for a particular FSA, all external tracing stops. If you specify MODE=INTERNAL without an FSA name, IP PrintWay does no external tracing for FSAs that are not started yet, even if external tracing is requested in the startup procedure for an FSA.

Example: This example shows how to start an internal trace for the FSA named PRT001. Start FSA PRT001 before you enter this command.

```
MODIFY PRINTWAY,TRACEON,PRT001,MODE=INTERNAL
```

Stopping an IP PrintWay basic mode trace

You can stop an IP PrintWay FSA trace by using one of these methods:

- Enter the MVS MODIFY TRACEOFF operator command for the FSA.
- Select the **None** option in the **Trace mode** field of the IP PrintWay FSA definition in the Printer Inventory. You must restart the IP PrintWay FSA for the new trace option to take effect.

You can stop an IP PrintWay FSS trace by specifying the **None** option in the **Trace mode** field of the FSS definition in the Printer Inventory. You must restart IP PrintWay FSS for the new trace option to take effect.

Stopping a trace by using the MODIFY operator command

Use the MVS MODIFY command to stop tracing an FSA without stopping IP PrintWay basic mode. You can also use the MVS MODIFY command to stop any future tracing of FSAs in the FSS.

- To stop an external trace for an FSA, specify the name of the FSA on the MODIFY command. Tracing of the FSA stops when the FSA is idle or before the next data set is processed.
- To stop future external trace for all FSAs that are managed by an IP PrintWay FSS and that are not yet started, do not specify any FSA name on the MODIFY command.

Use this syntax to stop a trace with the MODIFY or F command:

Syntax

```
{MODIFY | F} fss_name,TRACEOFF[,fsa_name]
```

fss_name

Specifies the name of the IP PrintWay FSS. This is a required parameter.

fss_name must match either:

- In a JES2 environment, the name in the JES FSS(*fss_name*) statement
- In a JES3 environment, the FSSNAME parameter of the JES FSSDEF statement

For information about the JES parameters, see *z/OS Infoprint Server Customization*.

TRACEOFF

Specifies that tracing is to be stopped. This is a required parameter.

fsa_name

Specifies the name of a specific FSA for which tracing is to be stopped. This is an optional parameter.

fsa_name must match either:

- In a JES2 environment, the JES PRT*nnnn* statement
- In a JES3 environment, the JNAME parameter of the JES DEVICE statement

For more information about the JES statements, see *z/OS Infoprint Server Customization*.

If *fsa_name* is not specified, tracing is not done for any FSAs that start after you enter the command, whether a trace option is specified in the FSS definition or the FSA definition in the Printer Inventory.

Examples:

1. This example shows how to stop tracing the FSA named PRT001.

   ```
   MODIFY FSS1,TRACEOFF,PRT001
   ```

2. This example shows how to stop tracing FSAs managed by FSS1 that are not yet started. Any tracing that is already started continues.

   ```
   MODIFY FSS1,TRACEOFF
   ```

Stopping a trace in the FSS and FSA definitions in the Printer Inventory

You can stop tracing an IP PrintWay FSS and FSAs by editing the IP PrintWay FSS and FSA definitions in the Printer Inventory.

To stop a trace:

1. If you want to stop tracing an FSA, stop that FSA.
2. If you want to stop tracing the FSS, stop the FSS.
3. If you want to stop tracing the FSS, select **None** in the **Trace mode** field in the FSS definition in the Printer Inventory. Because **None** is the default value, you do not need to create an FSS definition in the Printer Inventory to select this value.
4. If you want to stop tracing an FSA, select **None** in the **Trace mode** field in the FSA definition in the Printer Inventory. Because **None** is the default value, you do not need to create an FSA definition in the Printer Inventory to select this value.
5. Restart each FSA.

Viewing and printing GTF trace data

You can view and print GTF trace data sets by using the Interactive Problem Control System (IPCS). For more information about using IPCS, see *z/OS MVS IPCS User's Guide*.

When you use IPCS to view or print GTF trace data, specify USR event ID X'FD1'.

Examples of tracing IP PrintWay basic mode

The following examples show how to start and stop internal and external IP PrintWay basic mode tracing.

Starting an internal trace for an FSS and all FSAs at IP PrintWay initialization

Do these steps to start an IP PrintWay internal trace of the FSS and all FSAs in the FSS at IP PrintWay initialization. This example assumes that the FSA names are PRT001 and PRT002, and the FSS name is FSS1.

1. In the IP PrintWay FSS definition for FSS1 in the Printer Inventory, select the **Internal** option in the **Trace mode** field.
2. In the IP PrintWay FSA definitions for PRT001 and PRT002, select either **None** or **Internal** in the **Trace mode** field. Because **None** is the default value, you do not need to create FSA definitions to select this value.
3. Stop all IP PrintWay FSAs in the FSS so that IP PrintWay picks up the changes in the FSS definition.
4. Start the IP PrintWay FSAs, for example FSA PRT001 and FSA PRT002.
5. Return tracing to the default mode of **None** when you are done. Trace options remain set during your next IP PrintWay session unless you change them.

To stop tracing dynamically:

- Enter the MODIFY operator command for the FSS and for each FSA:

```
MODIFY FSS1,TRACEOFF
MODIFY FSS1,TRACEOFF,PRT001
MODIFY FSS1,TRACEOFF,PRT002
```

Starting an internal trace for one FSA dynamically

Do these steps to start an IP PrintWay internal trace for one IP PrintWay FSA dynamically while IP PrintWay is running. This example assumes that the FSA name is PRT001 and the FSS name is FSS1.

1. If an IP PrintWay FSS definition exists in the Printer Inventory, select **None** for the **Trace mode** field. This is the default value so you do not need to create an FSS definition to specify the **None** value.
2. If an IP PrintWay FSA definition exists for the FSA, select **None** for the **Trace mode** field. This is the default value so an FSA definition is not required.
3. Start the IP PrintWay FSA.
4. To start the trace, enter this MODIFY command:

```
MODIFY FSS1,TRACEON,PRT001,MODE=INTERNAL
```

Internal tracing of the FSA begins when the FSA is idle or at the next data set boundary.

To stop tracing:

- Enter this MODIFY operator command:

```
MODIFY FSS1,TRACEOFF,PRT001
```

Starting an external and internal trace for an FSS and all FSAs at IP PrintWay initialization

Do these steps to start a full external trace of the FSS and all FSAs in the FSS at IP PrintWay initialization. This example assumes that the FSA names are PRT001 and PRT002, and the FSS name is FSS1.

1. In the IP PrintWay FSS definition for FSS1 in the Printer Inventory, select the **Full** option in the **Trace mode** field. Do not select the **Trace prompt** field.
2. In IP PrintWay FSA definitions for PRT001 and PRT002 in the Printer Inventory, select either the **None** or **Full** option in the **Trace mode** field. Because **None** is the default value, you do not need to create FSA definitions to specify this value.
3. Stop all IP PrintWay FSAs in the FSS so that IP PrintWay picks up the changes in the FSS definition.
4. Start GTF as described in .
5. Start the FSAs you want to trace. IP PrintWay starts tracing the FSS when it is initialized and starts tracing each FSA when the FSA is started.

To stop tracing:

1. Enter the MODIFY operator command for the FSS and for each FSA:

```
MODIFY FSS1,TRACEOFF
MODIFY FSS1,TRACEOFF,PRT001
MODIFY FSS1,TRACEOFF,PRT002
```

2. Stop GTF by entering: P GTF

Starting an external and internal trace of all FSAs at IP PrintWay initialization, with prompting

Do these steps to start an external trace of all FSAs in an FSS at IP PrintWay initialization and prompt the operator for tracing parameters. This example assumes that the FSA names are PRT001 and PRT002, and the FSS name is FSS1.

Tip: This trace traces only FSA processing. It does not trace FSS processing. For an example of how to trace processing of the FSS, including IP PrintWay queue manager processing, see "Starting an external and internal trace for an FSS and all FSAs at IP PrintWay initialization" on page 472.

1. In the IP PrintWay FSS definition in the Printer Inventory, select the **Trace prompt** field. Select the **None** option in the **Trace mode** field. You can specify the type of trace you want with the MVS MODIFY command before the trace starts.

2. Start GTF as described in Appendix A, "Starting the Generalized Trace Facility (GTF)," on page 483.

3. In response to message ANFM020A, enter this MODIFY command at the console if you want a full external trace. You cannot specify the name of an FSA in the MODIFY command because no FSAs are started yet.

```
MODIFY FSS1,TRACEON,,MODE=FULL
```

Respond again to message ANFM020A with this command:

```
MODIFY FSS1,U
```

Tracing begins for each FSA in the FSS when the FSA starts. If you want to start an FSA but not trace it, enter the MODIFY command to stop tracing that FSA after the FSA starts.

To stop tracing:

1. Enter the MVS MODIFY operator command for the FSS and again for each FSA that is started. The first MODIFY command that is shown makes sure that tracing does not start for any FSAs that are started after this time.

```
MODIFY FSS1,TRACEOFF
MODIFY FSS1,TRACEOFF,PRT001
MODIFY FSS1,TRACEOFF,PRT002
```

2. Stop GTF by entering: P GTF

Starting an external and internal trace of an FSA dynamically

Do these steps to start an external trace or an IP PrintWay FSA dynamically. This example assumes that the FSA name is PRT001 and the FSS name is FSS1.

1. If an IP PrintWay FSS definition exists in the Printer Inventory, select **None** in the **Trace mode** field. This is the default value, so you do not have to create an FSS definition to select the **None** value.

2. If an IP PrintWay FSA definition exists for the FSA in the Printer Inventory, select **None** in the **Trace mode** field. This is the default value, so you do not have to create an FSA definition to specify the **none** value.

3. Start GTF as described in Appendix A, "Starting the Generalized Trace Facility (GTF)," on page 483.

4. Start FSA PRT001.

5. To start tracing FSA PRT001, enter this MODIFY command:

```
MODIFY FSS1,TRACEON,PRT001,MODE=FULL
```

Tracing begins when the FSA is idle or at the next data set boundary.

To stop tracing:

1. Enter this MODIFY operator command to stop tracing FSA PRT001:

   ```
   MODIFY FSS1,TRACEOFF,PRT001
   ```

2. Stop GTF by entering: P GTF

Tracing IP PrintWay basic mode ISPF panel logic

When the IP PrintWay ISPF panels do not perform as expected, you might want to trace panel logic.

To trace IP PrintWay ISPF panel logic:

1. On the Infoprint Server: Printer Inventory Manager panel:

   a. Type 7 on the option line to select **7 Configure**.

   b. Press **Enter**.

   ```
                   Infoprint Server: Printer Inventory Manager
   Option ===> 7

   Printer Definitions
       1 Add              Add a printer definition
       2 List             List printer definitions
       3 Select           Select printer definitions to list

   Other Functions
       4 Other Definitions Manage FSS, FSA, pool, and job selection definitions
       5 PrintWay Queue    View IP PrintWay basic mode transmission queue
       6 PrintWay Message  View IP PrintWay basic mode message log

   Infoprint Server Configuration
       7 ISPF             Change ISPF panel configuration
       8 System           Manage system configuration
   ```

2. On the Configuration panel:

   a. Select (with a slash [/]) or clear the **Trace Printer Inventory ISPF internals** field. This option turns on ISPF panel logic tracing for both Printer Inventory panels and IP PrintWay panels.

   b. Specify the name of the IP PrintWay trace data set file in the field **Trace data set** under the heading IP PrintWay. The default name is *USERID*.ANFISPF.TRACE. To return to the default directory, clear the **ISPF trace directory** field.

   c. To save the trace option and name of the directory, and exit the panel, press the END function key or enter END on the command line.

   d. To save the trace options without closing the panel, press **Enter**.

   e. To close the panel without saving the trace options, enter CANCEL on the command line.

   ```
                   Infoprint Server: ISPF Panel Configuration
   Command ==>_____

   /  Confirm delete requests
   /  Trace Printer Inventory ISPF internals
   ISPF trace directory . . /var/Printsrv/trace
   Configuration file . . . /etc/Printsrv/aopd.conf
   NLS path . . . . . . . . /usr/lpp/Printsrv/%L/%N
   Language . . . . . . . . En_US

   LP Command:
       Default printer . . . lp1

   IP PrintWay basic mode:
       Message log. . . . . ANF.MESSAGE
       Trace data set . . . USER1.ANFISPF.TRACE
   ```

Dumps for IP PrintWay basic mode

IP PrintWay basic mode produces dumps under these conditions:

- A standard z/OS abend dump is produced when an IP PrintWay basic mode abend occurs. IP PrintWay also sends a message that contains an abend reason code.
- When the operator sets a SLIP trap or enters the DUMP command, IP PrintWay produces an SVC dump.

z/OS abend dump

z/OS automatically produces a standard z/OS abend dump during an abend if the IP PrintWay startup procedure contains a SYSUDUMP, SYSABEND, or SYSMDUMP DD statement. For help in reading a standard z/OS dump and using it to solve an IP PrintWay problem, see the diagnosis information for z/OS.

SVC dump

An SVC dump is recorded on SYS1.DUMPxx and can be caused by an IP PrintWay abend occurring or by the system operator entering the DUMP command. You can use the IPCS program to format dumps and then view them at a display terminal or print them. See *z/OS MVS IPCS User's Guide*.

Chapter 9. Using NetSpool diagnostic tools

You can use NetSpool diagnostic tools to collect information about problems with the NetSpool started task. These tools can provide useful information to your service representative in the IBM Support Center.

For information about how to trace the NetSpool daemon **aopnetd**, see .

This information describes the NetSpool diagnostic tools:

- Submitting APARs
- NetSpool trace facility
- NetSpool dumps

Submitting APARs

Report any difficulties you have using NetSpool to your IBM Support Center. If an APAR is required, the Support Center can tell you where to send the required diagnostic information.

When you submit an APAR, use one of these component IDs:

- 569504002: Problems in the NetSpool started task.
- 5647A010P: Problems in the NetSpool daemon **aopnetd**.

NetSpool traces

NetSpool provides these types of traces:

- An internal wrap trace
- An external trace that uses the Generalized Trace Facility (GTF)

You can start either trace at initialization time or dynamically (while NetSpool is running).

For information about how to trace the NetSpool daemon **aopnetd**, see .

The service representative in the IBM Support Center might ask you to run a trace to aid in diagnosing a problem. If so, the representative tells you how and where to send the trace information. You do not have to interpret the trace. Send it to your service representative.

NetSpool internal wrap trace

The NetSpool internal trace contains hexadecimal entries for most module entries and exits. Trace data is maintained in internal storage and wraps when the trace storage area is full. Because the internal trace wraps, it reflects only the most recent history of NetSpool processing.

You can request internal tracing of NetSpool's program control and the printer LUs processed by NetSpool. When you request a full trace, you automatically receive an internal trace. For each printer LU that is externally traced, a corresponding internal trace is provided.

The internal trace is maintained in internal storage and cannot be directed to an external data set. To see the trace, you must generate a dump of the NetSpool internal storage. For more information about how to request a dump, see .

NetSpool maintains separate wrap traces for:

- NetSpool's program control.

This includes NetSpool's startup, operator command processing, starting and stopping printer LU sessions, VTAM interfacing, and Printer Inventory tasks.

- Each printer LU's processing of data.

  This includes the SCS and 3270 commands, orders, data flow processed by NetSpool, and record output.

For each trace, you can select a length from 4 K to 3996 K.

NetSpool external trace

For an external trace, NetSpool uses the services of the z/OS Generalized Trace Facility (GTF). The trace that is produced by GTF can contain z/OS system-level information and information that concerns NetSpool activity. For more information about GTF, see *z/OS MVS Diagnosis: Tools and Service Aids*.

You can request an external trace of NetSpool's program control and one or more printer LUs.

Tracing considerations

If you are concerned about processor usage, throughput, timing, or storage, you might want to consider:

- Processor usage and throughput

  The full trace affects processor performance. Do not start a full trace during peak processor usage. All other traces affect processor performance, but the impact is not as significant.

- Timing considerations

  Activating any of the traces causes the timing relationships to change. The problems might disappear when tracing is active, especially if a full trace is activated. If a problem disappears when you are tracing, specify different trace options. For example, limit the tracing to one printer LU.

- Storage considerations

  Tracing each printer LU requires a minimum additional storage of 6 KB above the 16 MB line. More storage is required if your trace options specify a PAGECOUNT that is greater than one. If you defined multiple printers in the Printer Inventory, consider tracing only the printer LUs that are needed to diagnose the problem.

Starting a NetSpool trace

You can request internal and external tracing in two ways:

- The NetSpool startup procedure

  By specifying parameters in the startup procedure, you can start tracing when NetSpool is started.

- The MVS MODIFY command

  By using the MVS MODIFY operator command, you can start and stop a trace while NetSpool is running.

Tip: Before you start any NetSpool external trace, you must start the Generalized Trace Facility (GTF).

Starting the Generalized Trace Facility (GTF)

You must start a GTF trace before you start a NetSpool external trace. When you start an external trace at NetSpool initialization, start GTF before you start NetSpool. NetSpool writes trace output to the GTF trace data set.

When you start GTF, specify these GTF parameters:

- The USR=(FAC,FD2) parameter

  Specify this parameter with two event identifiers (FAC and FD2) to obtain these trace entries:

  - FAC causes NetSpool to trace the input data stream, end-of-file rules, and data set allocation parameters for example. The NetSpool user or system programmer can use this trace information to

diagnose problems that are related to the input data stream or to attributes defined in the Printer Inventory for a NetSpool printer LU.

To obtain this trace information, also specify the LUNAME parameter either in the NetSpool trace options data set or on the MVS MODIFY command you use to start the NetSpool trace. If you know which LU is failing, specify the LU name in the LUNAME parameter to limit the amount of trace information and make the trace easier to read.

– FD2 traces cause NetSpool to trace program control flow, and control blocks for example. This trace information can help diagnose many types of problems.

- The JOBNAME=*proc_name* parameter

Specify this parameter to limit the trace entries to those produced by tasks that run in the NetSpool address space. *proc_name* is the name of the NetSpool startup procedure.

For an example of how to start GTF, see <u>Appendix A, "Starting the Generalized Trace Facility (GTF)," on page 483</u>.

Starting a trace at NetSpool initialization

You can specify the TRACE=ON parameter on the EXEC statement and include a TRACEOPT DD statement in the NetSpool startup procedure to start tracing when the NetSpool is initialized. For a description of the startup procedure, see *z/OS Infoprint Server Customization*.

To change a NetSpool startup procedure after NetSpool is already started, stop the NetSpool program. Change the statements in the startup procedure and start NetSpool. See *z/OS Infoprint Server Customization*.

You can also trace the NetSpool daemon **aopnetd**. See <u>"Tracing Infoprint Server" on page 447</u>.

Trace parameter on the EXEC statement

Specify the TRACE=ON parameter with the PARM parameter on the EXEC statement. For a description of the other parameters you can specify on the PARM parameter, see *z/OS Infoprint Server Customization*.

This example shows the syntax of the PARM parameter when TRACE=ON is specified:

```
//APIPPAAA EXEC PGM=APIPPAAA,
            PARM=(LUCLASS=&LUCLASS,INV=&INV,TRACE=ON)
```

Trace options data set statement

Add a TRACEOPT DD statement to the NetSpool startup procedure and specify the name of the trace options data set. Specify DISP=SHR to allow more than one instance of NetSpool to use the data set. This statement is required if TRACE=ON is included in the EXEC statement.

This example shows the syntax of the TRACEOPT DD statement:

```
//TRACEOPT DD DSN=dsname,DISP=SHR
```

Trace options data set

The trace options data set can be either a member of a partitioned data set (PDS) or a sequential data set with these attributes:

- Record format (RECFM) of fixed block (FB)
- Logical record length (LRECL) of 80

Parameters in the trace options data set

These trace options can be specified in the trace options data set. Specify at least one trace option:

TYPE=FULL | <u>INTERNAL</u>
   Specifies the type of trace to start. INTERNAL is the default value if TYPE is not specified.

FULL

Requests an external trace to GTF and a corresponding internal wrap trace for the program control and each printer LU specified for tracing.

INTERNAL

Requests an internal wrap trace for the program control and each printer LU specified for tracing.

LUNAME=ALL | (*lu-name1*[,*lu-name2*,...])

Specifies the printer LUs to be traced. The NetSpool program control is also traced. If LUNAME is not specified, only NetSpool program control is traced.

ALL

Requests tracing all NetSpool printer LUs defined in the Printer Inventory.

(*lu-name1*[,*lu-name2*,...])

Requests tracing specific NetSpool printer LUs defined in the Printer Inventory.

Guidelines:

1. Specify the LUNAME parameter so that additional information related to NetSpool printer LUs is traced.

2. If you know which NetSpool printer LU is failing, specify that LU name in this parameter so that the amount of trace information is limited and easier to read.

3. Tracing NetSpool printer LUs increases the above-the-16 MB-line storage requirement for NetSpool. Therefore, trace only the printer LUs necessary for diagnosing the problem.

PAGECOUNT=*nnn*

Specifies the number of 4 KB pages of storage to allocate for each internal trace table. NetSpool allocates storage for the trace tables above the 16 MB line. Values 1 - 999 are valid. The default is 12 (48 KB) for tracing NetSpool program control and 12 for each printer LU traced if PAGECOUNT is not specified. This allocation occurs only if NetSpool tracing is active.

Use this syntax to specify the trace options in the trace options data set as specified in the TRACEOPT DD statement:

Syntax

```
[TYPE=FULL | INTERNAL]
[,LUNAME=ALL | (lu-name1[,lu-name2...])]
[,PAGECOUNT=nnn]
```

For example, if you want to do full tracing of printer LUs LUPRT101 and LUPRT102, and you want the size of the internal trace storage to be 24 K for each printer LU and the NetSpool program control, specify this in the trace options data set:

```
TYPE=FULL,LUNAME=(LUPRT101,LUPRT102),PAGECOUNT=6
```

When NetSpool tracing is active, you can display the tracing status of the program control and each printer LU by entering this NetSpool command:

Syntax

```
F jobname.identifier,DISPLAY TRACE
```

Starting and stopping a trace dynamically by using NetSpool operator commands

You can enter a NetSpool operator command to start or stop NetSpool tracing after NetSpool is started. If tracing is already started, you can also start tracing additional printer LUs or selectively stop printer LUs that are being traced. Once a trace is started for NetSpool program control or for a printer LU, its trace options cannot be modified. If you need to change the trace options for a specific printer LU, you must stop the trace for that printer and start it again.

To start tracing, enter the MVS MODIFY command and options:

Syntax

```
F jobname.identifier,TRACE ON
[,TYPE=FULL | INTERNAL]
[,LUNAME=ALL | (lu-name1[,lu-name2...])]
[,PAGECOUNT=nnn ]
```

TYPE=FULL | INTERNAL
Specifies the type of trace to start. INTERNAL is the default value if TYPE is not specified.

FULL
Requests an external trace to GTF and a corresponding internal wrap trace for the program control and each printer LU specified for tracing.

INTERNAL
Requests an internal wrap trace for the program control and each printer LU specified for tracing.

LUNAME=ALL | (*lu-name1*[,*lu-name2*,...])
Specifies the printer LUs to be traced. The program control is also traced. If LUNAME is not specified, only NetSpool program control is traced.

ALL
Requests tracing all NetSpool printer LUs defined in the Printer Inventory.

(*lu-name1*[,*lu-name2*,...])
Requests tracing specific NetSpool printer LUs defined in the Printer Inventory.

Guidelines:

1. Specify the LUNAME parameter so that additional information related to NetSpool printer LUs is traced.

2. If you know which NetSpool printer LU is failing, specify that LU name in this parameter so that the amount of trace information is limited and easier to read.

3. Tracing NetSpool printer LUs increases the above-the-16 MB-line storage requirement for NetSpool. Therefore, trace only the printer LUs necessary for diagnosing the problem.

PAGECOUNT=*nnn*
Specifies the number of 4 KB pages of storage to allocate for each internal trace table. NetSpool allocates storage for the trace tables above the 16 MB line. Values 1 - 999 are valid. The default is 12 (48 KB) for tracing NetSpool program control and 12 for each printer LU traced if PAGECOUNT is not specified. This allocation occurs only if NetSpool tracing is active.

To start NetSpool full tracing for the program control and LUPRT101 and LUPRT102, enter the MVS MODIFY command, as in this example:

```
F jobname.identifier,TRACE ON,TYPE=FULL,LUNAME=(LUPRT101,LUPRT102),PAGECOUNT=4
```

To stop a NetSpool trace, enter the MVS MODIFY command:

Syntax

```
F jobname.identifier,TRACE OFF[,LUNAME=ALL | (lu-name1[,lu-name2...])]
```

LUNAME=ALL | (*lu-name1*[,*lu-name2*...])
Specifies the printer LUs for which tracing is to be stopped. If LUNAME is not specified, all NetSpool tracing is stopped.

ALL
Requests that tracing is to be stopped for all NetSpool printer LUs defined in the Printer Inventory. Tracing for program control continues.

> **(*lu-name1*[,*lu-name2*...])**
>> Requests that tracing is to be stopped for specific NetSpool printer LUs defined in the Printer Inventory.

To stop NetSpool full tracing for the program control and LUPRT101 and LUPRT102, enter the MVS MODIFY command, as in this example:

```
F jobname.identifier,TRACE OFF,LUNAME=LUPRT101,LUPRT102
```

When NetSpool tracing is active, you can display the tracing status of the program control and each printer LU by entering the MVS MODIFY command:

Syntax

```
F jobname.identifier,DISPLAY TRACE
```

For example, to display the tracing status of the program control and printer LUPRT101, enter:

```
F jobname.identifier,DISPLAY LUPRT101
```

Viewing and printing GTF trace data

You can view and print GTF trace data sets by using the Interactive Problem Control System (IPCS). For more information about how to use IPCS, see *z/OS MVS IPCS User's Guide*.

When you use IPCS to view or print GTF trace data, specify these NetSpool USR event IDs: X'FAC' and X'FD2'.

Dumps

Dumps containing information useful to NetSpool diagnosis are produced under these conditions:

- A standard z/OS SVC dump is produced when a NetSpool abend occurs.
- When the operator sets a SLIP trap or enters the DUMP command, NetSpool produces an SVC dump.

An SVC dump is recorded on SYS1.DUMPxx and can be caused by a NetSpool abend occurring or by the system operator entering the DUMP command. You can use the IPCS program to format dumps and then view them at a display terminal or print them. See *z/OS MVS IPCS User's Guide*.

Appendix A. Starting the Generalized Trace Facility (GTF)

You must start a GTF trace before you start a NetSpool or IP PrintWay basic mode external trace. When you start an external trace at NetSpool or IP PrintWay basic mode initialization, start GTF before you start the program component. Both NetSpool and IP PrintWay basic mode write trace output to the GTF trace data set.

When you start GTF, specify these GTF parameters:

USR=(*event_id*)

- For IP PrintWay basic mode tracing, specify USR=(FD1)
- For NetSpool tracing, specify USR=(FAC,FD2)

Specify this trace parameter to obtain the trace entries that are produced by IP PrintWay basic mode or NetSpool.

JOBNAME=*proc_name*
Specify this parameter to limit the trace entries to those produced by tasks that run in the IP PrintWay basic mode or NetSpool startup procedure. *proc_name* is the name of the startup procedure.

You must start GTF before you start an external IP PrintWay basic mode or NetSpool trace.

To start GTF:

1. Enter:

   ```
   S GTF.identifier,devname,volserial,(TIME=YES)
   ```

   identifier
   Specifies the user name for this GTF session

   devname
   Specifies the device number or type of output device to contain the trace data set

   volserial
   Specifies the serial number of the magnetic tape or DASD volume to contain the trace data set

   TIME=YES
   Specifies that GTF is to time-stamp every record

   GTF responds: "xx AHL100A SPECIFY TRACE OPTIONS"

2. Enter:

   ```
   R xx,TRACE=USRP,JOBNAMEP
   ```

   The USRP parameter is optional. Specify it only if you want to limit the trace entries to those produced by a single component (NetSpool or IP PrintWay basic mode).

   GTF responds: "xx AHL101A SPECIFY TRACE EVENT KEYWORDS— USR=,JOBNAME="

3. For IP PrintWay basic mode tracing, enter:

   ```
   R xx,USR=(FD1),JOBNAME=(PRINTWAY)
   ```

   In the USR parameter, specify FD1 to limit the trace entries to the ones from IP PrintWay basic mode.

   In the JOBNAME parameter, specify the name of the IP PrintWay basic mode startup procedure.

For NetSpool tracing, enter:

```
R xx,USR=(FAC,FD2),JOBNAME=(NETSPOOL)
```

In the USR parameter, specify FAC and FD2 to limit the trace entries to those produced by NetSpool.

In the JOBNAME parameter, specify the name of the NetSpool startup procedure.

GTF responds: "xx AHL102A CONTINUE TRACE DEFINITIONS or REPLY END"

4. Enter:

```
R xx,END
```

GTF responds with either of these:

- AHL103I Trace Options Selected – USR=(FD2),Jobname=(NETSPOOL)
- AHL103I Trace Options Selected – USR=(FD1),Jobname=(PRINTWAY)

Plus:

xx AHL125A RESPECIFY Trace Options or Enter U

5. Enter:

```
R xx,U
```

GTF responds: "AHL031A GTF Initialization Complete"

6. After tracing is complete, to stop GTF, enter:

```
P GTF.identifier
```

Appendix B. Accessibility

Accessible publications for this product are offered through IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSLTBW/welcome).

If you experience difficulty with the accessibility of any z/OS information, send a detailed message to the Contact z/OS web page (www.ibm.com/systems/z/os/zos/webqs.html) or use the following mailing address.

> IBM Corporation
> Attention: MHVRCFS Reader Comments
> Department H6MA, Building 707
> 2455 South Road
> Poughkeepsie, NY 12601-5400
> United States

Accessibility features

Accessibility features help users who have physical disabilities such as restricted mobility or limited vision use software products successfully. The accessibility features in z/OS can help users do the following tasks:

- Run assistive technology such as screen readers and screen magnifier software.
- Operate specific or equivalent features by using the keyboard.
- Customize display attributes such as color, contrast, and font size.

Consult assistive technologies

Assistive technology products such as screen readers function with the user interfaces found in z/OS. Consult the product information for the specific assistive technology product that is used to access z/OS interfaces.

Keyboard navigation of the user interface

You can access z/OS user interfaces with TSO/E or ISPF. The following information describes how to use TSO/E and ISPF, including the use of keyboard shortcuts and function keys (PF keys). Each guide includes the default settings for the PF keys.

- *z/OS TSO/E Primer*
- *z/OS TSO/E User's Guide*
- *z/OS ISPF User's Guide Vol I*

Dotted decimal syntax diagrams

Syntax diagrams are provided in dotted decimal format for users who access IBM Knowledge Center with a screen reader. In dotted decimal format, each syntax element is written on a separate line. If two or more syntax elements are always present together (or always absent together), they can appear on the same line because they are considered a single compound syntax element.

Each line starts with a dotted decimal number; for example, 3 or 3.1 or 3.1.1. To hear these numbers correctly, make sure that the screen reader is set to read out punctuation. All the syntax elements that have the same dotted decimal number (for example, all the syntax elements that have the number 3.1) are mutually exclusive alternatives. If you hear the lines 3.1 USERID and 3.1 SYSTEMID, your syntax can include either USERID or SYSTEMID, but not both.

The dotted decimal numbering level denotes the level of nesting. For example, if a syntax element with dotted decimal number 3 is followed by a series of syntax elements with dotted decimal number 3.1, all the syntax elements numbered 3.1 are subordinate to the syntax element numbered 3.

Certain words and symbols are used next to the dotted decimal numbers to add information about the syntax elements. Occasionally, these words and symbols might occur at the beginning of the element itself. For ease of identification, if the word or symbol is a part of the syntax element, it is preceded by the backslash (\) character. The * symbol is placed next to a dotted decimal number to indicate that the syntax element repeats. For example, syntax element *FILE with dotted decimal number 3 is given the format 3 * FILE. Format 3* FILE indicates that syntax element FILE repeats. Format 3* * FILE indicates that syntax element * FILE repeats.

Characters such as commas, which are used to separate a string of syntax elements, are shown in the syntax just before the items they separate. These characters can appear on the same line as each item, or on a separate line with the same dotted decimal number as the relevant items. The line can also show another symbol to provide information about the syntax elements. For example, the lines 5.1*, 5.1 LASTRUN, and 5.1 DELETE mean that if you use more than one of the LASTRUN and DELETE syntax elements, the elements must be separated by a comma. If no separator is given, assume that you use a blank to separate each syntax element.

If a syntax element is preceded by the % symbol, it indicates a reference that is defined elsewhere. The string that follows the % symbol is the name of a syntax fragment rather than a literal. For example, the line 2.1 %OP1 means that you must refer to separate syntax fragment OP1.

The following symbols are used next to the dotted decimal numbers.

? indicates an optional syntax element
The question mark (?) symbol indicates an optional syntax element. A dotted decimal number followed by the question mark symbol (?) indicates that all the syntax elements with a corresponding dotted decimal number, and any subordinate syntax elements, are optional. If there is only one syntax element with a dotted decimal number, the ? symbol is displayed on the same line as the syntax element, (for example 5? NOTIFY). If there is more than one syntax element with a dotted decimal number, the ? symbol is displayed on a line by itself, followed by the syntax elements that are optional. For example, if you hear the lines 5 ?, 5 NOTIFY, and 5 UPDATE, you know that the syntax elements NOTIFY and UPDATE are optional. That is, you can choose one or none of them. The ? symbol is equivalent to a bypass line in a railroad diagram.

! indicates a default syntax element
The exclamation mark (!) symbol indicates a default syntax element. A dotted decimal number followed by the ! symbol and a syntax element indicate that the syntax element is the default option for all syntax elements that share the same dotted decimal number. Only one of the syntax elements that share the dotted decimal number can specify the ! symbol. For example, if you hear the lines 2? FILE, 2.1! (KEEP), and 2.1 (DELETE), you know that (KEEP) is the default option for the FILE keyword. In the example, if you include the FILE keyword, but do not specify an option, the default option KEEP is applied. A default option also applies to the next higher dotted decimal number. In this example, if the FILE keyword is omitted, the default FILE(KEEP) is used. However, if you hear the lines 2? FILE, 2.1, 2.1.1! (KEEP), and 2.1.1 (DELETE), the default option KEEP applies only to the next higher dotted decimal number, 2.1 (which does not have an associated keyword), and does not apply to 2? FILE. Nothing is used if the keyword FILE is omitted.

* indicates an optional syntax element that is repeatable
The asterisk or glyph (*) symbol indicates a syntax element that can be repeated zero or more times. A dotted decimal number followed by the * symbol indicates that this syntax element can be used zero or more times; that is, it is optional and can be repeated. For example, if you hear the line 5.1* data area, you know that you can include one data area, more than one data area, or no data area. If you

hear the lines `3*`, `3 HOST`, `3 STATE`, you know that you can include `HOST`, `STATE`, both together, or nothing.

Notes:

1. If a dotted decimal number has an asterisk (*) next to it and there is only one item with that dotted decimal number, you can repeat that same item more than once.

2. If a dotted decimal number has an asterisk next to it and several items have that dotted decimal number, you can use more than one item from the list, but you cannot use the items more than once each. In the previous example, you can write `HOST STATE`, but you cannot write `HOST HOST`.

3. The * symbol is equivalent to a loopback line in a railroad syntax diagram.

+ indicates a syntax element that must be included

The plus (+) symbol indicates a syntax element that must be included at least once. A dotted decimal number followed by the + symbol indicates that the syntax element must be included one or more times. That is, it must be included at least once and can be repeated. For example, if you hear the line `6.1+ data area`, you must include at least one data area. If you hear the lines `2+`, `2 HOST`, and `2 STATE`, you know that you must include `HOST`, `STATE`, or both. Similar to the * symbol, the + symbol can repeat a particular item if it is the only item with that dotted decimal number. The + symbol, like the * symbol, is equivalent to a loopback line in a railroad syntax diagram.

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