
10

AS/400 Configuration, IPDS Printer

Configuring On AS/400 As An IPDS Printer

Use this chapter to configure your printer on AS/400 as an IPDS printer. To print IPDS, you must install the IPDS option on your printer. Once configured as an IPDS printer, the printer can also print AFP™ and SCS, but these datastreams must be converted to IPDS first.

NOTE: Do not cancel IPDS print jobs by using WebPage cancel.

Printing AFP, IPDS, And SCS Files

Printers configured as IPDS only print IPDS files. AFP and SCS files can be printed, but they must be transformed to IPDS before printing.

- APF files are transformed directly by Print Services Facility™ (PSF/400, an integrated feature of OS/400), which then sends the transformed file to the printer.
- SCS files are transformed into IPDS by setting the IPDSPASTHR parameter to YES (see Figure 32 on page 206 or Figure 31 on page 203). This path yields the best performance by sending IPDS files directly to the printer with no transform.

Requirements

Contact technical support to obtain the latest PTFs for PSF/400.
For IPDS printing, you also need to install the IPDS option for the printer.

Configuration Checklist

NOTE: All of the following configuration steps carried out on the AS/400 may require “create” or “change” authority.

1. If you have not already done so, set up the printer and install the Ethernet Interface. See “Configuration Using The Control Panel” on page 31.
2. Using the printer control panel, set up the printer for IPDS by setting the parameters and values shown in Table 9.

Table 9. Control Panel Settings

Menu	Item	Setting
C/T PORT	Port Type	Twinax
TWINAX SETUP 4234-12	IPDS Emulation	I4234-12

3. Set TCP/IP addresses for the printer, such as an IP Address, Gateway Address, or Subnet Mask. See “Configuration Tools” on page 30.
4. If the printer and AS/400 are not on the same LAN segment, verify there is a route defined in the TCP/IP route list. If necessary, use the `ADDTCPRTE` command to create a route definition. You need this if your printer is somewhere other than on a local segment.
5. You need the IP address of the Ethernet Interface to configure the Ethernet Interface.

6. If you have not done so yet, create a line description for your Ethernet Interface. See “Developing Line Descriptions With CRTLINETH” on page 181.
7. Create or verify the existence of an AS/400 TCP/IP interface for the Ethernet Interface. See “Configuring An AS/400 TCP/IP Interface With ADDTCPIFC” on page 200.
8. The next step depends on your AS/400 release. See “Configuring PSF/400 For IPDS On V3R7 Or V4R1” on page 202 to configure your printer.

NOTE: When the IPDS feature is installed, the queue name ‘d4prn’ is not available.

9. Verify the printer is ON using the `VFYCFG` command.
10. Verify that TCP/IP has been started using the `STRTCP` command.
11. Test your configuration. See “Verifying The IPDS Configuration On AS/400” on page 215.
12. To share the printer on the network, verify that the necessary parameters have been set correctly. See “Sharing The AS/400 Printer On The Network” on page 217.
13. If you have problems, refer to “AS/400 Troubleshooting” on page 219.

Configuring An AS/400 TCP/IP Interface With ADDTCPIFC

NOTE: Do not enter the IP address of the Ethernet Interface. Do not set the AS/400 interface address to the same address as the Ethernet Interface IP address. Also, do not add the Ethernet Interface to the AS/400 TCP/IP interface list.

Configuring An Interface For Ethernet

ADDTCPIFC is used to add a TCP/IP interface to AS/400. This step configures the AS/400 for attachments to a TCP/IP network.

1. At the AS/400 command line, enter the following command:

```
ADDTCPIFC INTNETADR ('9.99.15.188') LIND(ETHLAN)
SUBNETMASK('255.255.255.0')
```

2. Your completed screen should look like Figure 30.

System: BLDD60	
Internet address:	9.99.15.188
Subnet mask:	255.255.255.0
Line description:	ETHLAN
Line type:	*ELAN
Interface status:	Inactive
Type of service:	*NORMAL
Maximum transmission unit:	*LIND
Automatic start:	*YES

Figure 30. Example ADDTCPIFC Interface

Configuring An AS/400 TCP/IP Interface With ADDTCPIFC

3. The following parameters must be specified:

a. **Internet Address**

Internet address of the AS/400 Ethernet LAN adapter.

NOTE: Do not use the IP address of the Ethernet Interface.

b. **Subnet Mask**

The Subnet Mask for this AS/400 TCP/IP interface (for example, **255.255.255.0**).

c. **Line Description**

The name assigned to the AS/400 line description as described in “Developing Line Descriptions With CRTLINETH” on page 181. Each AS/400 LAN adapter will have its own line description.

Configuring A TCP/IP Host Table Entry

Although optional, it is recommended that you create a TCP/IP host table entry. Add the AS/400 name and the IP address of the LAN adapter to the “Host Table Entries.” Also, add the hostname and IP address of the printer to the list. You can access the host table entries function by using the `CFGTCP` command, then selecting option 10 from the menu.

You can also add entries to your host table for both the hostname and the fully qualified network name for your system. The entry name should match the name you configured for host and domain. For example, if your hostname is “RCHASM03” and your domain name is “RCHLAND.IBM.COM”, your fully qualified network name is “RCHASM03.RCHLAND.IBM.COM”. In your host entry table, enter both RCHASM03 and RCHASM03.RCHLAND.IBM.COM.

Configuring PSF/400 For IPDS On V3R7 Or V4R1

To configure IPDS on AS/400 V3R7 and above, use the following commands:

- CRTPSFCFG (Optional)
- CRTDEVPRT

Configuring AFP With CRTPSFCFG On V3R7 Or V4R1 (Optional)

New for V3R7 is the ability to specify three TCP/IP-related parameters for PSF in a printer device description: RMTLOCNAME, PORT, and ACTTMR. In V3R2, CRTPSFCFG, which replaced WRKAFF2, was used to specify these same parameters, along with other parameters. In V3R7 and higher, these three parameters are ignored when specified in a PSF configuration object, since they are specified in a printer device description. However, you may wish to use a PSF configuration object to specify other parameters, such as IPDS pass through and so on.

The PSF configuration object created with this command is used by PSF/400 when printing IPDS files only if the object is specified with the USRDFNOBJ parameter in the printer device description.

To configure AS/400 for IPDS printing on V3R7 or V4R1:

1. At the AS/400 command line, enter a command in the form:

```
CRTPSFCFG  PSFCFG(AFP/NET6400
           IPDSPASTHR(*YES) RLSTMR(*SEC15)
           TEXT('printer_type NETWORK PRINTER')
```

2. A completed screen looks like Figure 31.

PSF Configuration Information	
PSF configuration: NET6400i	Library: AFP
User resource library:	*JOBLIBL
IPDS pass through:	*YES
Activate release timer:	*NORDYF
Release timer:	*SEC15
Restart timer:	*IMMED
SNA retry count:	2
Delay time between retries:	0
Blank page:	*YES
Page size control:	*YES
Resident fonts:	*YES
Resource retention:	*YES
Edge orient:	*NO
Remote location:	
Name or address:	*NONE
TCP/IP port:	*NONE
TCP/IP activation timer:	170
PSF defined options:	
*NONE	
Text description:	6400i Network Printer
Device resource library list:	*DFT

Figure 31. Example CRTPSFCFG Command (V3R7 or V4R1)

NOTE: The lines in **bold** in Figure 31 are not used by PSF/400. Instead, PSF/400 uses the information entered in the device description screen.

3. The following parameters are recommended:

a. **PSF configuration (PSFCFG)**

The name used for this PSF configuration object. The name must match the user-defined object name (USRDFNOBJ) in the printer DEVD.

b. **IPDS pass through (IPDSPASTHR)**

To print SCS files, specify ***YES**, PSF/400 transforms SCS into IPDS before printing.

c. **Activate release timer (ACTRLSTMR)**

Specifies the point at which the release timer (RLSTMR) is activated. Set to ***NORDYF**.

d. **Release timer (RLSTMR)**

Specifies the amount of time to wait before a session or dialog is released without terminating the writer. The ACTRLSTMR parameter specifies when this timer is to be activated. Set the parameter to a value at least equal to the TIMEOUT value on the printer. The recommended value is ***SEC15**.

e. **Page Size Control (PAGSIZCTL)**

Specifies if the page size (FORMS) is set by PSF.400. Usually set to ***YES**.

Configuring PSF With CRTDEVPRT On V3R7 Or V4R1

This section describes how to create a printer device description.

1. At the AS/400 command line, enter a command in the form:

```
CRTDEVPRT DEVD(NETPRT64) DEVCLS(*LAN) TYPE(*IPDS)
          MODEL(0) LANATTACH(*IP) AFP(*YES) PORT(5001)
          FONT(11) FORMFEED(*CONT)
          RMTLOCNAME('128.9.12.134')
          USRDFNOBJ(AFP/5000NETPRT *PSFCFG)
          TEXT('printer_type NETWORK PRINTER')
```

NOTE: Only use the USRDFNOBJ parameter if it was defined in the previous procedure. See “Configuring AFP With CRTPSFCFG On V3R7 Or V4R1 (Optional)” on page 202.

2. A completed screen looks like the example shown in Figure 32.

Display Device Description		
5716SS1 V3R7M0 961108	BLDRB1	
Device Description:	DEVD	<i>NETPRT64</i>
Option:	OPTION	*ALL
Category of device:		*PRT
Device class:	DEVCLS	*LAN
Device type:	TYPE	*IPDS
Device model:	MODEL	0
LAN attachment:	LANATTACH	*IP
User-defined object:	USRDFNOBJ	<i>NET6400i</i>
Library:		AFP
Object type:		*PSFCFG
Data transform program:	USRDTATFM	*NONE
User-defined driver program:	USRDRVPGM	*NONE
Advanced function printing:	AFP	*YES

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Port number:	PORT	5001
Online at IPL:	ONLINE	*YES
Font:	FONT	
Identifier:		011
Point size:		*NONE
Form feed:	FORMFEED	*CONT
Separator drawer:	SEPDRAWER	*FILE
Separator program:	SEPPGM	*NONE
Library:		
Printer error message:	PRTERRMSG	*INQ
Message queue:	MSGQ	QSYSOPR
Library:		*LIBL
Activation timer:	ACTTMR	170
Maximum pending requests:	MAXPNDRQS	6
Print while converting:	PRTCVT	*YES
Print request timer:	PRTRQSTMR	*NOMAX
Form definition:	FORMDF	F1C10110
Library:		*LIBL
Remote location:	RMTLOCNAME	
Name or address:		128.9.12.134
Dependent location name:	DEPLOCNAME	*NONE
Text:	TEXT	6400i Network Printer
User-defined options:	USRDFNOPT	

Figure 32. Example CRTDEVPRT Command (V3R7 and above)

3. Values must be entered for the following parameters:
 - a. **Device Description (DEVD)**
The device description or name.
 - b. **Device Class (DEVCLS)**
Specify *LAN
 - c. **Device Type (TYPE)**
Specify *IPDS
 - d. **Device Model (MODEL)**
Specify 0
 - e. **LAN Attachment (LANATTACH)**
Specify *IP
 - f. **Port Number (PORT)**
Specify 5001
 - g. **Font (FONT)**
Enter an appropriate value.
 - h. **Form Feed (FORMFEED)**
Specify *CONT
 - i. **Activation Timer (ACTTMR)**
This value specifies the number of seconds that PSF/400 waits for a printer to respond to an activation request. If only one system is using the printer, use the default value (170 seconds). If more than one system is using the printer, specify *NOMAX, which causes PSF/400 to wait indefinitely for a response to an activation request.
 - j. **Remote Location (RMTLOCNAME)**
Enter the IP address or hostname of the printer.

k. User-Defined Object (USRDFNOBJ)

To use a PSF configuration object, specify its name and library here. This object type must be *PSFCFG. For V3R7 and higher, a single PSF configuration object may be referenced by multiple device descriptions, if required.

Configuring PSF/400 for IPDS On V4R2 And Above

To configure IPDS on the AS/400 V4R3, use the following commands:

- CRTDEVPRT
- CRTPSFCFG (Optional)

Configuring AFP with CRTPSFCFG on V4R3 and above (Optional)

To configure the AS/400 for IPDS printing on V4R3:

1. At the AS/400 command line, enter a command in the form:

```
CRTPSFCFG PSFCFG(AFP/NETPRT6400i) IPDSPASTHR(*YES)
RLSTMR(*SEC15) TEXT('IBM 6400i NETWORK ATTACHED
PRINTER') PAGESIZCTL(*YES) ACTRLSTMR(*NORDYF)
```

2. A completed screen looks like Figure 33.

Configuring PSF/400 for IPDS On V4R2 And Above

PSF configuration	>NETPRT6400i	Name
Library	>AFP	Name, *CURLIB
User resource library list	*JOBLIBL	*JOBLIBL, *CURLIB, *NONE
Device resource library list	*DFT	Name, *DFT
IPDS pass through	>*YES	*NO, *YES
Activate release timer	*NORDYF	*NORDYF, *IMMED...
Release timer	>*SEC15	1-1440, *NOMAX, *SEC15...
Restart timer	*IMMED	1-1440, *IMMED
APPC and TCP/IP retry count ..	2	1-99, *NOMAX
Delay between APPC retries....	0	0-999
Automatic session recovery	*NO	*NO, *YES
Acknowledgment frequency	100	1-32767
Text 'description'	>IBM 6400i NETWORK PRINTER	
	Additional Parameters	
Blank page	*YES	*YES, *NO
Page size control	>*YES	*NO, *YES
Resident fonts	*YES	*YES, *NO
Resource retention	*YES	*YES, *NO
Edge orient	*NO	*YES, *NO
Use outline fonts	*NO	*YES, *NO
PSF defined option	*NONE	
Font substitution messages	*YES	*YES, *NO
Capture host fonts at printer	*NO	*NO, *YES
Font resolution for formatting ...	*SEARCH	*SEARCH, 240, 300
Font mapping table	*NONE	Name, *NONE
Library		Name, *LIBL, *CURLIB
Cut sheet emulation mode	*NONE	*NONE, *CHKFIRST, *CHKALL
Replace	*YES	*YES, *NO
Authority	*L	

Figure 33. Example CRTPSFCFG Command (V4R2 and above)

3. The following parameters are recommended: PSF configuration (PSFCFG)

The name used for this PSF configuration object. The name must match the user-defined object name (USRDFNOBJ) in the printer DEVD.

PSF configuration (PSFCFG)

The name used for this PSF configuration object. The name must match the user-defined object name (USRDFNOBJ) in the printer DEVD.

IPDS pass through (IPDSPASTHR)

To print SCS files, specify ***YES**, PSF/400 transforms SCS into IPDS before printing.

Release timer (RLSTMR)

Specifies the amount of time to wait before a session or dialog is released without terminating the writer. The ACTRLSTMR parameter specifies when this timer is to be activated. Set the parameter to a value at least equal to the TIMEOUT value on the printer. IBM recommends ***SEC15**.

Page size control (PAGSIZCTL)

Specifies if the page size (forms) is set by PSF/400. Usually set to ***YES**.

Remote Location name or address (RMTLOCNAME)

Enter the IP address or hostname of the printer.

Configuring PSF with CRTDEVPRT On V4R2 and above

This section describes how to create a printer device description.

1. At the AS/400 command line, enter a command in the form:

```
CRTDEVPRT DEVD(P6400i) DEVCLS(*LAN) TYPE(*IPDS)
MODEL(0)
LANATTACH(*IP) AFP(*YES) PORT(5001) FONT(11)
FORMFEED(*CONT) RMTLOCNAME('128.9.12.134')
USRDFNOBJ(AFP/NETPRT6400i *PSFCFG)
TEXT('IBM 6400i NETWORK PRINTER')
```

Only use the USRDFNOBJ parameter if it was defined in the previous procedure.

A completed screen looks like the example shown in Figure 34.

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Device description	>P6400i	Name
Device class	>*LAN	*LCL, *RMT, *VRT, *SNPT, *LAN
Device type	>*IPDS	3287, 3812, 4019, 4201...
Device model	>0	0, 1, 2, 3, 4, 10, 13, 301...
LAN attachment	>*IP	*LEXLINK, *IP, *USRDFN
Switched line list.....		Name
LAN remote adapter address		000000000001-FFFFFFFFFFFF
Adapter type	*INTERNAL	*INTERNAL, *EXTERNAL
Adapter connection type	*PARALLEL	*PARALLEL, *SERIAL
Emulated twinaxial device		3812, 5219, 5224, 5256
Advanced function printing.....	*YES	*NO, *YES
AFP attachment.....	*WSC	*WSC, *APPC
Port number	>5001	0-65535
Switch setting		0, 1, 2, 3, 4, 5, 6
Local location address		00-FE
Auxiliary printer		*YES, *NO
Emulating ASCII device	*NO	*NO, *YES
Physical attachment		*DIRECT, *PTT, *MODEM...
Online at IPL	*YES	*YES, *NO
Attached controller		Name
Language type	*SYSVAL	*SYSVAL, AGB, AGI, ALI...
Print quality	*STD	*STD, *DRAFT, *NLQ
Font:		
Identifier	>011	3, 5, 11, 12, 13, 18, 19...
Point size	*NONE	000.1-999.9, *NONE
Form feed	*CONT	*TYPE, *CONT, *CONT2, *CUT
Separator drawer.....	*FILE	1-255, *FILE
Separator program	*NONE	Name, *NONE
Library.....		Name, *LIBL, *CURLIB
Number of drawers.....		1, 2, 3
Printer error message	*INQ	*INQ, *INFO
Message queue.....	*QSYSOPR	Name, *CTLD, *SYSOPR, QSYSOPR
Library.....	*LIBL	Name, LIBL, *CURLIB
Maximum length of request unit	*CALC	*CALC
Application type.....	*NONE	*NONE, *NRF, *DEVINIT...
Activation timer.....	170	1-2550, *NOMAX
Inactivity timer	*ATTACH	1-30, *ATTACH, *NOMA
SNA pass-through device desc.....	*NONE	Name, *NONE
SNA pass-through group name.....	*NONE	Name, *NONE
Host signon/logon command.....	*NONE	
Pacing	7	1-7

Configuring PSF/400 for IPDS On V4R2 And Above

Line speed	*TYPE	*TYPE, 150, 300, 600
Word length	*TYPE	*TYPE, 7, 8
Type of parity	*TYPE	*TYPE, *EVEN, *ODD, *NONE...
Stop bits	*TYPE	*TYPE, 1, 2
Host print transform	*NO	*NO, *YES
Manufacturer type and model		
Paper source 1	*MFRTYPMDL	*MFRTYPMDL, *LETTER...
Paper source 2	*MFRTYPMDL	*MFRTYPMDL, *LETTER...
Envelope source	*MFRTYPMDL	*MFRTYPMDL, *MONARCH...
ASCII code page 899 support	*NO	*NO, *YES
Image configuration	*NONE	*NONE, *IMGA01, *IMGA02...
Maximum pending requests	6	1-31
Print while converting	*YES	*NO, *YES
Print request timer	*NOMAX	1-3600, *NOMAX
Form definition	F1C10110	Name
Library	*LIBL	Name, *LIBL, *CURLIB
Character identifier:		
Graphic character set	*SYSVAL	1-32767, *SYSVAL
Code page		1-32767
Remote location:		
Name or address	>128.9.12.134	
Local location	*NETATR	Name, *NETATR
Mode	QSPWTR	Name, QSPWTR, *NETATR
User-defined options	*NONE	Character value, *NONE
User-defined object:	>NETPRT6400i	
Object	>AFP	Name, *NONE
Library		Name, *LIBL, *CURLIB
Object type	>*PSFCFG	*DTAARA, *DTAQ, *FILE...
Data transform program	*NONE	Name, *NONE
Library		Name, *LIBL, *CURLIB
User-defined driver program	*NONE	Name, *NONE
Library		Name, *LIBL, *CURLIB
System driver program		
Text 'description'	IBM 6400i Network Printer	
Dependent location name	*NONE	Name, *NONE
	Additional Parameters	
Remote network identifier	*NETATR	Name, *NETATR, *NONE
Workstation customizing object	*NONE	Name, *NONE
Library		Name, *LIBL, *CURLIB
Authority	*LIBCRTAUT	Name, *LIBCRTAUT, *CHANGE...

Figure 34. Example CRTDEVPRT Command (V4R2 and above)

2. Values must be entered for the following parameters:

Device Description (DEVD)

The device description or name.

Device Class (DEVCLS)

Specify *LAN.

Device Type (TYPE)

Specify *IPDS.

Device Model (MODEL)

Specify 0.

LAN attachment (LANATTACH)

Specify *IP.

Port number (PORT)

Specify 5001.

Font (FONT)

Enter an appropriate value.

Form Feed (FORMFEED)

Specify *CONT.

Activation timer (ACTTMR)

This value specifies the number of seconds that PSF/400 waits for a printer to respond to an activation request. If only one system is using the printer, use the default value (170 seconds). If more than one system is using the printer, specify *NOMAX, which causes PSF/400 to wait indefinitely for a response to an activation request.

Remote Location (RMTLOCNAME)

Enter the IP address or hostname of the printer.

User-Defined Object (USRDFNOBJ)

To use a PSF configuration object, specify its name and library here. This object type must be *PSFCFG. For V3R7 and higher, a single PSF configuration object may be referenced by multiple device descriptions, if required.

Verifying The IPDS Configuration On AS/400

To test IPDS printing:

1. If it is not already on, vary on the line description:
`VRYCFG CFGTYPE(*LIN)`
2. To start TCP/IP, enter `STRTCP`.
3. Verify that the AS/400 TCP/IP interface is active. Use the command:
`WRKTCPSTS`
and then select option 1.
4. Turn the printer on and wait until the printer control panel displays "ETHERNET ADAPTER IS READY."

5. To verify the printer is connected to AS/400, `ping` the printer from an AS/400 workstation with one of the following commands:

```
PING ip_address
```

or

```
PING hostname
```

where *ip_address* is the Internet address of the remote system printer (the Ethernet Interface), and *hostname* is the hostname you defined for the printer, if any.

- If the `ping` is not successful, refer to “Cannot PING The Printer” on page 219.
- If the `ping` is successful, vary on the printer device description with the command:

```
VRYCFG (printer_device) CFGTYPE(*DEV)  
STATUS(*ON)
```

6. To use PSF/400 to send an IPDS file to the printer, enter:

```
STRPRTWTR DEV (printer_device)
```

where *printer_device* is the name of the printer.

7. If you have problems printing, do the following:
 - Print an Ethernet Test Page. Refer to your *User's Manual*.
 - Verify that port number 5001 is being used.
8. If you are still unable to print IPDS files, contact technical support.

Sharing The AS/400 Printer On The Network

To support printer sharing, your printer automatically switches among all attached ports (serial, twinax/coax, LAN). Basically, the printer prints jobs for one port until no new jobs appear and the port “times out.” The printer then switches to the next port and does the same thing.

To change the default “time out” value for a port, update the TIMEOUT value for the port on the appropriate menu (Serial Interface, Ethernet Parameters, Twinax Interface, or Coax Interface).

Printer Sharing Parameters

To set up AS/400 for printer sharing, set the following parameters.

Table 10. Printer Sharing

AS/400 Version	Where Set	Parameter	Recommended Value	Description
V3R7 V4R1	CRTPSFCFG CHGPSFCFG	ACTRLSTMR	*NORDYF	Specifies the point at which the release timer (RLSTMR) is activated. Set to *NORDYF. This means that the release timer is activated when there are no spooled files in the printer's output queue with a status of RDY and the last page of the last spooled file processed has printed. *NORDYF is used so that all files with a status of RDY are printed before releasing the session (which does not terminate the writer).

Table 10. Printer Sharing (continued)

AS/400 Version	Where Set	Parameter	Recommended Value	Description
V3R7 V4R1	CRTPSFCFG CHGPSFCFG	RLSTMR	*SEC15	Specifies the amount of time to wait before a session or dialog is released without terminating the writer. The ACTRLSTMR parameter specifies when this timer is to be activated. Set the parameter to a value at least equal to the TIMEOUT value on the printer. The recommended value is *SEC15.
V3R7 V4R1	CRTDEVPR CHGDEVPR	ACTTMR	*NOMAX	The value specifies the number of seconds that PSF/400 will wait for a printer to respond to an activation request. If only one system will be using the printer, use the default value (170 seconds). If more than one system will be using the printer, set the value to *NOMAX, which causes PSF/400 to wait indefinitely for a response to an activation request.

AS/400 Troubleshooting

Use this section to resolve problems configuring AS/400 on TCP/IP networks.

Cannot PING The Printer

If you have problems trying to ping the printer:

- Verify the configuration of AS/400, including the printer and any intervening devices such as routers and bridges.
- Verify that the AS/400 line description is varied on and the printer is turned on and displays a status of ONLINE.
- Verify that the AS/400 TCP/IP interface is active.

PSF/400 Terminates When Initialized

If PSF/400 terminates when you initialize it for IPDS printing and issues message PQT3603, check for the following error codes:

- Code 10 means an incorrect `RMTSYS` or `RMTLOCNAME` (V3R2, V3R7, or V4R1) has been specified for the printer.
- Code 15 means that PSF/400 timed out waiting for the printer's response. Check the value you entered for Activation Timer when using `WRKAFFP2`, `CRTPSFCFG` (V3R2), or `CRTDEVPRP` (V3R7 or V4R1).
- Codes 20-39 indicate a general communications failure. Make sure all of the components in your network are operational, such as routers. If necessary, call IBM technical support.
- Codes 40-59 indicate a logic error between PSF and the printer control unit. Contact IBM technical support.

Spooled Print File Remains In PND Status

Check the output queue with the command:

```
WRKOUTQ queuename
```

This typically indicates that PSF/400 is waiting for a response from the printer. This can be verified by displaying the QSPPL subsystem, WRKACTJOBSBS (QSPPL). If the status of the PDJ job for the printer is SELW, then PSF/400 is waiting for a response from the printer. Make sure that the printer is in ONLINE mode and that all network connections (for example, routers) between the AS/400 and the printer are active.

Spooled Files Disappear Without Printing

To resolve this problem:

- Check that the correct printer queue name and correct IP address have been used.
- `ping` the IP address. If the `ping` is successful, disconnect the network cable from the printer/print server, and `ping` the address again. If the `ping` is still successful, there is another printer with that IP address on the network.

Data Is Being Clipped

To resolve this problem, you may want to set the PSC (Page Size Control) parameter to ***YES** in the CRTPSFCFG command (V3R2, V3R7, or V4R1).