Configuring AS/400 for Printing to American PrintWare Products using TCP/IP printing

Overview

Please note that this document incorporates information form IBM documentation, various other sources, and customer input. American PrintWare does not have access to an AS400. We provide this information as a service to our AS400 customers. It may contain errors or uncertain areas. We can only improve it with your help and feedback. Please note any changes and send to Support@apwi.com . I will be eternally grateful and you help will make it easier on the next person who uses this. Notes in italics are mine.

American PrintWare products use a logical printer defined on a Windows NT or Windows 2000 system as their input. On the AS400 we must create a printer device *(what is the best term here in AS400 parlance should it be Out Queue or something else?)* that can send data to the logical printer defined on the NT. This involves first creating a Workstation Customization Object and then creating a logical printer on the AS400 that uses the WSCST object to prepare the data stream and then uses the logical printer to send print jobs. This document describes the second process. The WSCST object creation is described in the companion document, "Connecting American PrintWare Products with an AS400."

The procedures here are outlined from IBM documentation. The full reference for configuring TCPIP on an IBM AS/400 may be found in the IBM Ethernet and Token Ring Configuration Guide, beginning on page 101, Configuring AS400 for Printing:

Data Requirements

You need the following data to configure the AS/400 for printing:

Parameter	Description	Your Value
Remote Printer Queue name	Name of the logical printer defined on the Windows NT or Windows 2000 host for your American PrintWare product.	

APWI

American PrintWare Inc.

| IP address | IP address of the Windows host for your American PrintWare product |
| Workstation Customization Object | Name and dataset of the WSCST object created previously. |

Creating The AS400 Device

From the AS/400 command line, enter CRTOUTQ. You see a screen similar to the following:

```
                    Create Output Queue (CRTOUTQ)
Type choices, press Enter
Output queue . . . . . . . . . . . . . . . . . . . . . .   OUTQ              USENAME
  Library . . . . . . . . . . . . . . . . .. . . . . . . .
Maximum spooled file size:                 MAXPAGES
  Number of pages . . . . . . . . . . . . . . .                            NONE
  Starting time . . . . . . . . . . . . . . . . . .
  Ending time . . . . . . . . . . . . . . . . . .
                                           + for more values
Order of files on queue                    SEQ               *FIF0
Remote system                              RMTSYS            *INTNETADR
Remote printer queue                       RMTPRTQ           PASS
Writers to autostart                       AUTOSTRWTR        1
Queue for writer messages                  MSGQ              QSYSOPR
  Library . . . . . . . . . . . . . . . . . . . . . . . .
Connection type . . . . . . . . . . . . . . . . . . .   CNNTYPE           *IP
Destination type . . . . . . . . . . . . . . . . . .   DESTTYPE          *OTHER
Host print transform . . . . . . . . . . . . . . . .   TRANSFORM         *YES
Manufacturer type and model . . . . . . . . .   MFRTYPMDL         *IBM4312
Workstation customizing object             WSCST             NONE
  Library . . . . . . . . . . . . . . . . . . . . . . .
Internet address . . . . . . . . . . . . . . . . . .   INTNETADR         '9.99.57.183'
Destination options . . . . . . . . . . . . . . . .   DESTOPT           *NONE
Print separator page . . . . . . . . . . . . . . .   SEPPAGE           *YES
User defined option . . . . . . . . . . . . . .   USRDFNOPT         NONE
                                           + For more values
```

Edit these values as follows:

Output queue (OUTQ) = APW
(The name of the AS/400 output queue. The name can be anything you want, for example, "APW". This name is NOT the same as the printer's Internal queue name.)

Remote System (RMTSYS) = *INTNETADR
(This will prompt you for the Internet address (IP address) or the hostname of the Xerox DC230)

Remote Printer Queue (RMTPRTQ) = 'APW'
> This is the printer name as defined on the Windows host for your American PrintWare product. The name can be anything you choose and should make sense in terms of you organization's naming convention. The name used here and the name on the Window's host must match identically

Writers to autostart (AUTOSTRWTR) = 1
> Specify 1. This will start Remote Writer when the queue is created, after each IPL of the AS/400, and whenever STRTCP is started.

Connection Type (CNNTYPE) = *IP

Destination Type (DESTTYPE) = *OTHER

HostPrint Transform (TRANSFORM) = *YES

Manufacturer type (MFRTYPMDL) = *WSCST
(Not sure this is correct but must tell the system that this outqueue uses a WSCST and below where to find the WSCST)

Workstation Customization Object = Specify the WSCST object previously created

Internet address (INTNETADR) = '13.234.167.199'
This is the IP address of the Windows host of your American PrintWare product

After you have made the above changes, attempt to send a job. If nothing appears at the printer, try pinging the printer's ip address and for host. If it pings OK, try using manual lpr, as detailed on page 102:

Starting TCP/IP

(I really need some help in this section. Please edit and change as necessary so that this corresponds with the set up above. If you send changes to Support@apwi.com, I will incorporate them in this document and will be eternally grateful)
To start TCP/IP, enter STRTCP.

1. Enter CRTDEVPRT (or CHGDEVPRT) at the command line and enter the required parameters. You see a screen similar to the following:

```
Device Description            : P4324
Device class                  : *LAN
Device type                   : 3812
Device Model                  : 1
Lan attachment                : *IP
Port Number                   : 2501
Font                          : 011
Activation timer              : 170
Inactivity timer              : *SEC15
Host print transform          : *YES
Manufacturer type/model       : *HP4 (or *IBM43nn)
Remote Location:
        Name/Address          : 9.99.99.99
System driver program         : *IVMPJLDRV
& Lib
```

2. Specify the following parameters:

Device class (DRVCLS)
Specify *LAN.

Device type (TYPE)
Specify 3812
(not sure what goes here)

Lan attachment (LANATTACH)

   Specify *IP

Activation timer (ACTTMR)

   The value specifies the number of seconds that OS/400 waits for a printer
   to respond to an activation request. If only one system will use the printer,
   use the default value (170 seconds). If more than one system will share the
   printer, set the value to *NOMAX, which will cause OS/400 to wait
   indefinitely for a response to an activation request.

Inactivity timer (INACTTMR)

   Set this parameter to a value at least equal to the TIMEOUT value on the
   printer Ethernet Menu or Token Ring Menu.

Host print transform (HPT)

   Specify *YES
   *(how do you specify the WSCST object or is this done in the outqueue
   definition)*
   .

Manufacturer type and model

   Specify *IBM43nn

Remote location (RMTLOCNAM)

   Specify the IP address or hostname of the printer.

System driver program (SYSDRVPGM)