

MX-C311/MX-C401/MX-B401

MX-2300N/MX-2600N/MX-2700N/MX-3100N

MX-3500N/MX-3501N/MX-4100N/MX-4101N/MX-4501N/MX-5001N

Models: MX-5500N/MX-6200N/MX-6201N/MX-7000N/MX-7001N

MX-M283N/MX-M363N/MX-M453N/MX-M503N/MX-M623N/MX-M753N

MX-M350N/MX-M450N/MX-M550N/MX-M620N/MX-M700N

MX-M850/MX-M950/MX-M1100

**Priority:** Medium

Date: August 2010

Subject: AS/400 Remote Output Queue Setup

**Description:** These are instructions for AS/400 to use a Remote Output Queue print to a Sharp MFP.

The IBM AS/400 can print to the Sharp MFP using these instructions.

- The Sharp MFP must have the LPD Print Port enabled.
- The AS/400 must not send the print jobs in IPDS format.

These instructions can be used as a training tool for a Sharp technician and could also be provided to the AS/400 administrator for use as a guide when installing a Sharp MFP.

# Configuring a Remote Output Queue for Sharp MFPs on the IBM AS400

This document contains information on configuring and using a remote output queue for sending *IBM AS400* print jobs to *Sharp* MFPs using the **LPR/LPD** printing protocol. It is intended as a training aid for users with little or no experience with the *IBM OS400* operating system or advanced users unfamiliar with setting up printing to *Sharp* MFPs.

A remote output queue is the easiest method to enable printing on the *AS400* and it is supported by all *Sharp* MFPs with a SoftNIC or an internal NIC card and the TCP/IP protocol enabled. LAN attached printers on the other hand require additional configuration and may not be supported on all *Sharp* models. Please note that there are some differences in printing with a remote output queue rather than to a LAN attached printer. These differences are aspects of the AS400 operating system.

- 1. The Page Range function is not supported like a LAN attached printer. *IBM* has an unsupported program available to address this but it is beyond the scope of this document.
- 2. There is no parameter to select the page size in the remote output queue description.
- 3. Some applications can only print to a LAN attached printer. This limitation can be overcome by creating a virtual (dummy) printer device for use in conjunction with the remote output queue. Therefore, it is recommended to always create a virtual printer device to use with a remote output queue for *Sharp* MFPs.

To create a remote output queue on the **AS400**, you must log into the **AS400** with a user account with sufficient administrative rights to use the following **CL** (**Command Line**) programs

**VFYTCPCNN** - (Verify TCP/IP Connection) or

**PING** – (Verify TCP/IP Connection)

**CRTOUTQ** – (Create Output Queue)

**DLTOUTQ** – (Delete Output Oueue)

**CRTDEVPRT** – (Create Device Description – Printer)

**DLTDEVD** – (Delete Device Description)

**STRRMTWTR** – (Start Remote Writer)

**ENDWTR** – (End Writer)

**WRKWTR WTR(\*ALL**) – (Work with All active Writers)

**WRKSPLF** - (Work with Spooled Files)

**CHGOUTQ** – (Change Output Queue)

**CHGUSRPRF** – (Change User Profile)

**CHGPRF** – (Change Profile)

**STRSEU** – (Start Source Entry Utility)

The following steps should be taken to ensure that the Remote Output Queue printing method will be successful:

- 1) Configure the *Sharp* MFP with the correct information for the *AS400* network.
- 2) Log into the AS400 using a telnet session with a Terminal Emulation Program.
- 3) Verify network connectivity from the *AS400* to the *Sharp* MFP.
- 4) Review required output queue parameters for *Sharp* MFPs.
- 5) Create and configure a remote output queue for a *Sharp* MFP.
- 6) Create a virtual printer device description.
- 7) Start the remote writer for the output queue.
- 8) Test remote output queue printing using spooled system files.
- 9) Apply a Work Station Customizing Object to the remote output queue.
- 10) Set the remote output queue for the Sharp MFP as the user's default printer.
- 11) Test user's default printer with application printing.

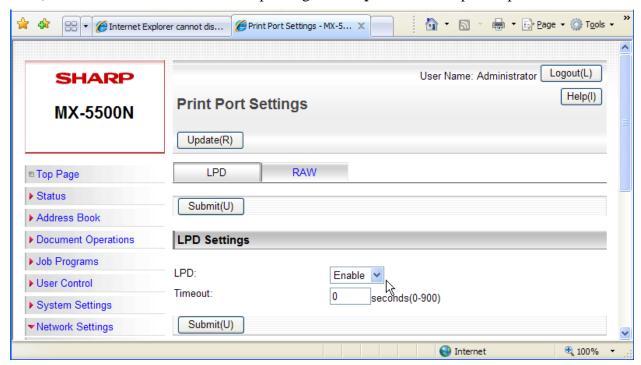
### 1) Configure the Sharp MFP

Print Port Settings

a) Configure the Sharp MFP with the correct TCP/IP information that is to be connected to the **AS400** network. Record the information below:

Sharp Model: \_ IP address: Subnet Mask: Gateway: TCP/IP NetWare EtherTalk NetBEUI ■ Top Page ▶ Status Submit(U) ▶ Address Book ▶ Document Operations TCP/IP Settings ▶ Job Programs TCP/IP: Enable 💌 ▶ User Control DHCP/BOOTP: Disable > ▶ System Settings RARP: Disable v ▼Network Settings IP Address: 172.29.105.97 Quick Settings Subnet Mask: 255.255.254.0 ■ General Settings Protocol Settings Default Gateway: 172.29.104.1 Services Settings Use FTP/LPD Banner: Disable 🕶

b) Ensure that LPD is enabled for printing on *Sharp* models with printer port control.



### 2) Log into the AS400 Server

a) To log into the *AS400* Server, you must have an *IBM 5250* compatible terminal emulation program. There are numerous terminal programs available including *IBM*'s *Client Access* which includes other tools. A low cost alternative is the *MochaSoft TN5250 Terminal Emulation Program*. Whatever terminal emulation program you use, it must be configured with the IP address or host name of the *AS400* server you are connecting to. You will also need a user account with sufficient rights and permissions to create objects and change system settings. Record the required information below:

IP address/Host Name of *AS400*:

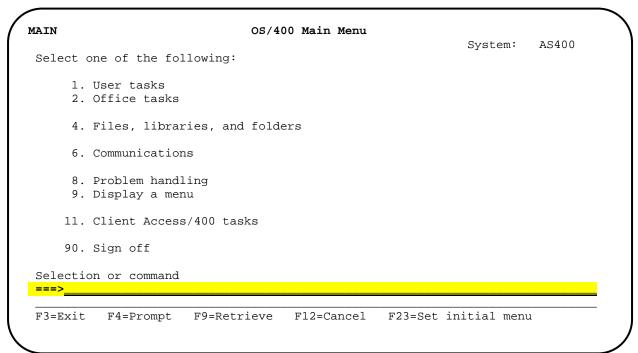
User Name:

Password:

b) Start the terminal emulation program and the login screen will appear as shown below. Enter your user name and press the <**TAB**> key to move to the password field and enter your password. (**Note**: User names and passwords are not case sensitive on the *AS400*.) Leave all other fields blank and press the <**Enter**> key when done. (**Note**: With the *IBM* Remote Console Program, the right hand <**Ctrl**> key is used for the <**Enter**> key.)

c) If the user was previously logged in, the following screen will appear. Press the **Enter**> key to continue.

d) The next screen that appears will depend on how the administrator has your account set up. Typically, it will be a menu screen similar to the one shown below.



A few general notes about the terminal console window and the keys used in it: In the above screen, the cursor is placed on the command line. Menu numbers, options or Command Line (CL) commands are typed on this line. Below the command line, the function keys that can be

used for this screen are shown. These will vary depending on the screen that is displayed. The IBM AS400 keyboard has 24 function keys rather than the 12 function keys found on PC keyboards. To access function keys higher than 12, you must use the  $\langle Shift \rangle$  key in conjunction with the function key, i.e.  $\langle Shift \rangle + \langle F1 \rangle = \langle F13 \rangle$ ,  $\langle Shift \rangle + \langle F2 \rangle = \langle F14 \rangle \sim \langle Shift \rangle + \langle F12 \rangle = \langle F24 \rangle$ . The action taken by a specific function key can vary between different screens so it is important to read the prompts associated with the key before pressing it. However, the  $\langle F4 \rangle$  key is always used as a "prompt" key on the command line as well as a "list" key for field values when indicated. System messages are shown at the bottom of the screen to display error messages or the results of a command.

Use the <TAB>key to move between screen fields and the command line. The Windows mouse pointer can also be used to move the cursor between fields. If there is more information than can be displayed on one screen, a prompt "More..." will appear in the lower right hand corner. To move to the next screen, press the <PgDn> key. Press the <PgUp> key to return to the previous screen.

### 3) Verify network connectivity to the Sharp MFP

- a) Before creating a remote output queue, verify that the *Sharp* MFP is powered on and connected to the *AS400* network.
- b) Place your cursor on the start of the command line and type "VFYTCPCNN" and press the <F4> key. (As an alternative, the "PING" command can be used in place of the "VFYTCPCNN" command.)

MAIN OS/400 Main Menu System: AS400 Select one of the following: 1. User tasks 2. Office tasks 4. Files, libraries, and folders 6. Communications 8. Problem handling 9. Display a menu 11. Client Access/400 tasks 90. Sign off Selection or command ===> VFYTCPCNN F23=Set initial menu F3=Exit F4=Prompt F9=Retrieve F12=Cancel

c) When the following screen appears, type in the IP address or host name of the *Sharp* MFP with leading and trailing single quote marks (') and press the **Enter**> key.

	Verify TCP/IP	Connection (VE	YTCPCNN)		
Type choices, press	Enter.				
Remote system		<u>'172.29.105.97</u>	<u> </u>		
				Bottom	
F3=Exit F4=Prompt F13=How to use this			parameters		

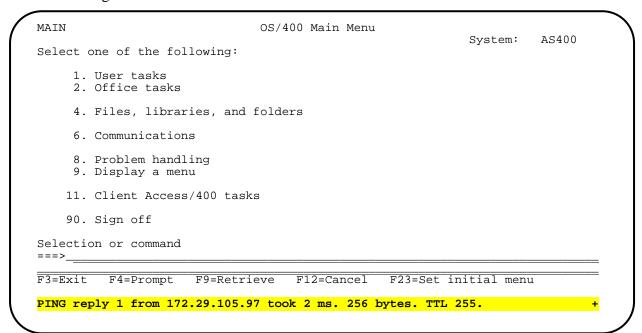
d) The screen below will be displayed showing the system message:

Verifying connection to host system xxx.xxx.xxx.xxx.

The plus sign (+) indicates there are additional message lines to display.

MAIN OS/400 Main Menu System: AS400 Select one of the following: 1. User tasks 2. Office tasks 4. Files, libraries, and folders 6. Communications 8. Problem handling 9. Display a menu 11. Client Access/400 tasks 90. Sign off Selection or command ===>\_ F9=Retrieve F4=Prompt F12=Cancel F23=Set initial menu Verifying connection to host system 172.29.105.97

e) The VFYTCPCNN or PING command issues a Ping 5 times when it is executed. Click on the plus sign (+) with your mouse and press the <PgDn> key to display the results of the Ping.



If the Sharp MFP is available on the network, the message line will change as shown below each time the <PgDn> key is pressed:

```
PING reply 1 from 172.29.105.97 took 2 ms. 256 bytes. TTL 255. + PING reply 2 from 172.29.105.97 took 2 ms. 256 bytes. TTL 255. + PING reply 3 from 172.29.105.97 took 2 ms. 256 bytes. TTL 255. + PING reply 4 from 172.29.105.97 took 2 ms. 256 bytes. TTL 255. + PING reply 5 from 172.29.105.97 took 2 ms. 256 bytes. TTL 255. + PING reply 5 from 172.29.105.97 took 2 ms. 256 bytes. TTL 255. + Round-trip (in milliseconds) min/avg/max = 1/1/2
Connection verification statistics: 5 of 5 successful (100 %).
```

f) If the connection to the MFP is not confirmed, correct the problem before proceeding.

### 4) Review required output queue parameters for Sharp MFPs.

While *AS400* remote output queues created with the **CRTOUTQ** command have a number of parameters, not all parameters need to be changed from the system defaults for *Sharp* MFPs. Listed below are only the parameters that need to be checked or changed for use with *Sharp* MFPs in the output queue description. All other values can be left at the system defaults:

- 1. *Output queue* the name of the output queue is required. It can be any name you desire unless an output queue already exists with that name.
- 2. *Library* A "Library" is analogous to a directory in DOS. The default value for the output queue library is \*CURLIB (Current Library). This needs to be changed to QUSRSYS for creating a virtual printer device description for use with the output queue.
- 3. **Remote system** Set this parameter to \***INTNETADR** when using the IP address of the **Sharp** MFP. If a host or DNS name is used, enter that name here using leading and trailing single quote (\(\frac{1}{2}\)) marks.

4. **Remote Printer Queue** – This specifies the LPR queue name used by the **Sharp** MFP and varies by the type of network controller on the unit. Names are case sensitive and must be spelled correctly. The following are the LPR queue names used by the various **Sharp** interfaces:

Network Controller	LPR Queue Name
AR-NC1D	PORT1
AR-NC3D	PORT1
AR-NC4T	PORT1
AR-NC5J	lp
SoftNIC	lp
EFI Fiery	print

- 5. Writers to autostart Specifies the number of remote writers that will be started automatically by the system. The default value is set to \*NONE but should be set to 1 so the remote writer will automatically be started after a restart of the AS400 system or after making a change to the output queue description. If not, the writer will have to be started manually using the Start Remote Writer (STRRMTWTR) command.
- 6. *Connection Type* This needs to be set to \***IP** as the output queue will communicate with the *Sharp* MFP using TCP/IP.
- 7. **Destination Type** This needs to be set to \*OTHER for all Sharp MFPs.
- 8. *Host Print Transform* This needs to be set to \*YES so the *AS400* Host Print Transform (HPT) function will convert both SCS (SNA Character Stream a text-based, EBCDIC data stream) and AFPDS (Advance Function Presentation Data Stream) spooled files to the printer's data stream.
- 9. *User Data Transform and Library* Set this value to \*NONE when using the Host Print Transform function.
- 10. *Manufacturer Type and Model* The *IBM AS400* ships with predefined printer descriptions from a number of manufacturers, but *Sharp* does not provide one. For basic printing functionality, set this value to \*HP8000. *Sharp* MFPs closely match this model but not exactly. For full functionality, a modified Work Station Customizing Object for the specific *Sharp* model would be used. In that case, this value would be set to \*WSCST.
- 11. Workstation Customizing Object Set this value to \*NONE if the Manufacturer Type and Model is set to \*HP8000. Otherwise if it is set to \*WSCST, fill in the name of the workstation customizing object (WSCST) for the specific Sharp model being used.
- 12. *Internet Address* The *Internet Address* parameter must be set to the *Sharp* MFP's TCP/IP address when the *Remote System* parameter has been set to \*INTNETADR. The

TCP/IP address should be entered without leading zeros (for example, use **172.29.105.97** instead of **172.029.105.097**).

- 13. **Destination options IBM** recommends that this value should be set to 'XAIX' (all uppercase) but there are times when it should not be used. The 'XAIX' value specifies that the remote writer is to send the spooled file to the printer multiple times if the number of copies is greater than 1. This method is required for printers that start printing the data right away. However, there are some printers that will close the connection after the first copy is sent. This is an unexpected close, resulting in retrying to send from the beginning which will cause the remote writer to loop forever and will cause the spooled file to be printed indefinitely. In this case, 'XAIX' should not be used.
- 14. **Text 'description'** While not a requirement, it is always a good idea to have a statement to show the model of the **Sharp** MFP and accessories being used. Make sure to use leading and trailing single quote marks (\*) around the text.

# 5) Create and configure a Remote Output Queue for a Sharp MFP.

The following example for creating a remote output queue with the Create Output Queue (**CRTOUTQ**) command is based on using a *Sharp MX-5500* MFP with a *SoftNIC* network controller at IP address 172.29.105.97. Record the values that you will need to use to create your own remote output queue.

Output queue:	
Remote printer queue:	- <del></del>
Host/DNS name (if used)	
IP address:	
Place your cursor on the start of	of the command line and type "CRTOUT

a) Place your cursor on the start of the command line and type "CRTOUTQ" and press the <F4> key and the following screen will appear:

Create Ou	itput Queue (CF	RTOUTQ)	
Type choices, press Enter.			
Output queue	*CURLIB	Name Name, *CURLIB	
Number of pages	*NONE	Number, *NONE Time Time	
Order of files on queue Remote system	*FIFO *NONE	*FIFO, *JOBNBR	
F3=Exit F4=Prompt F5=Refresh F13=How to use this display			Bottom =Cancel
arameter DEVD required.			+

b) Type in the name of your output queue, tab to the *Library* field, type in "QUSRSYS" and then press the <F9> key to display all parameters of the remote output queue. Tab to the *Remote system* field, type in "\*INTNETADR". Tab to the *Remote printer queue* field and type in the queue name for the *Sharp* network controller using leading and trailing single quote (\') marks. (See the table in *Section 4*), *Item 4* for queue names.) NOTE: The caret symbol (>) on the screen shows the fields that are changed from their default values.

Output queue Library		Name Name, *CURLIB
Maximum spooled file size: _  Number of pages  Starting time  Ending time	*NONE	Number, *NONE Time Time
Order of files on queue	*FIFO	*FIFO, *JOBNBR
Remote system	> <u>*INTNETADR</u>	
Remote printer queue	> ,Tb,	
		Botto

c) Press the <**PgDn**> key to access the next entry screen and fill in the values for the following fields: *Writers to autostart* > 1, *Connection Type* > \***IP**, *Destination type* > \***OTHER**, *Manufacturer type and model* > \***HP8000** and *Internet address* > the IP address of the *Sharp* MFP. Use the <**Tab**> key to move between fields and leave all other values at default. Press the <**PgDn**> key to move to the next screen.

```
Create Output Queue (CRTOUTQ)
Writers to autostart \dots > \frac{1}{0}
                                                             1-10, *NONE
Queue for writer messages
                                            QSYSOPR
                                                             Name
                                                            Name, *LIBL, *CURLIB
*SNA, *IP, *IPX, *USRDFN
 Library . . . . . . . . . . . .
                                              *LIBL
Connection type . . . . > *IP

Destination type . . . . > *OTHER

Host print transform . . . . *YES
                                                            *OS400, *OS400V2, *PSF2...
                                                             *YES, *NO
                                                             Name, *NONE
User data transform . . . .
                                            *NONE
 Libra<u>ry</u> . . . . .
                                                             Name, *LIBL, *CURLIB
Manufacturer type and model . . > *HP8000_
Workstation customizing object *NONE
                                                             Name, *NONE
Name, *LIBL, *CURLIB
  Library
             . . . . . . . . . . .
Image configuration . . . . .
                                            *NONE
                                                             *NONE, *IMGA01, *IMGA02...
Internet address . . . . . . > <u>172.29.105.97′</u>
VM/MVS class . . . . . . . . . . A A,
                                                             A, B, C, D, E, F, G, H, I...
Forms Control Buffer . . .
                                            *NONE
                                                             Character value, *NONE...
                                           F12=Cancel
F3=Exit
            F4=Prompt
                           F5=Refresh
                                                            F13=How to use this display
F24=More keys
```

d) When the following screen appears, enter "'XAIX'" for the *Destination options field* and enter an appropriate comment in the *Text 'description' field*. No other parameters need to be entered.

```
Create Output Queue (CRTOUTQ)
Destination options .....
Print separator page . . . . . .
                                 *YES
                                              *YES, *NO
User defined option . . . .
                                 *NONE
                                              Option, *NONE
             + for more values
User defined object:
                                             Name, *NONE
Name, *LIBL, *CURLIB
 *NONE
   Library . . . . . . . . . . . .
                                *NONE Name, *NONE Name, *LIBL, *CURLIB

*SYSTEM *SYSTEM *ATTRIBLE
 Object type . . . . . . . . .
                                             *DTAARA, *DTAQ, *FILE...
User driver program . . . . .
Library
Text 'description' . . . . . . . Color and Black & White Sharp MX-5500N
                                                                  More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

e) Use the **PgUp**> key to review all of your entries. When you are satisfied they are all correct, press the **Enter**> key to create the remote output queue. The following system message will be displayed:

Object MX5500Q type \*OUTQ created in library QUSRSYS.

```
MAIN
                               OS/400 Main Menu
                                                             System: AS400
 Select one of the following:
      1. User tasks
      2. Office tasks
      4. Files, libraries, and folders
      6. Communications
      8. Problem handling
      9. Display a menu
     11. Client Access/400 tasks
     90. Sign off
 Selection or command
                       F9=Retrieve
                                    F12=Cancel
                                                  F23=Set initial menu
 Object MX5500Q type *OUTQ created in library QUSRSYS.
```

As a virtual printer device description will be used with this remote output queue, ensure that the library shown is **QUSRSYS** as this is the library that printer device descriptions must reside in.

### 6) Create a Virtual Printer Device Description.

Virtual (dummy) printer device descriptions are typically used when printing from applications that do not support printing directly to an output queue, but only to a printer device description. Therefore it is necessary to create a dummy printer device description for use with the newly created remote output queue for the *Sharp* MFP. As this is not a "real" printer device description, some precautions need to be taken:

- 1. Do not use the Vary Configuration (**VRYCFG**) or the Work with Configuration Status (**WRKCFGSTS**) commands to vary on the dummy printer device description.
- 2. Do not use the Start Print Writer (**STRPRTWTR**) command or **Option 1** (**Start**) from the Work with Writers (**WRKWTR**) command to start the writer. Use the Start Remote Writer (**STRRMTWTR**) command instead to start a writer using the remote output queue.
- 3. The remote output queue and dummy printer device description should be thoroughly documented as a system save and system restore can cause the remote output queue to change to a normal output queue.

Follow the steps below to create a dummy printer device description and associate it with the remote output queue for the *Sharp* MFP.

a) When the output queue was created, a writer with the same name was created by the *AS400* system. Before a dummy printer device description is a created, the writer for the queue must be stopped to properly associate the device with the queue. At the command line, type "ENDWTR" and press the <F4> key. Type in the name of your remote output queue in the *Writer* field, press the <TAB> key to move to the *When to end writer* field and type in "\*IMMED".

b) Press the **Enter**> key and system message

```
Writer XXXXXX/WSPLJOB/{output queue name} in the process of ending. if the writer is active, otherwise, the system message would read:
Writer {output queue name} not active nor on job queue.
```

MAIN OS/400 Main Menu System: AS400 Select one of the following: 1. User tasks 2. Office tasks 4. Files, libraries, and folders 6. Communications 8. Problem handling 9. Display a menu 11. Client Access/400 tasks 90. Sign off Selection or command ===> \_ F3=Exit F4=Prompt F9=Retrieve F12=Cancel F23=Set initial menu Writer 044792/QSPLJOB/MX5500Q in process of ending.

c) At a command prompt, type "CRTDEVPRT" and press the <F4> key.

MAIN OS/400 Main Menu System: AS400 Select one of the following: 1. User tasks 2. Office tasks 4. Files, libraries, and folders 6. Communications 8. Problem handling 9. Display a menu 11. Client Access/400 tasks 90. Sign off Selection or command ===> CRTDEVPRT\_ F3=Exit F4=Prompt F9=Retrieve F12=Cancel F23=Set initial menu

d) Type in the name of the remote output queue in the *Device description* field and press the <F9> key. Fill in the values for the following fields: *Device class* > \*VRT, *Device type* > 3812, and *Device model* > 1. This defines the printer as a virtual device that emulates an *IBM* printer which supports the ASCII data stream and the PJL language.

```
Create Device Desc (Printer) (CRTDEVPRT)
Type choices, press Enter.
Device description . . . . . > MX5500Q
                                            Name
Device class . . . . . . . . > <u>*VRT</u>
                                            *LCL, *RMT, *VRT, *SNPT, *LAN
3287, 3812, 4019, 4201...
                                            0, 1, 2, 3, 4, 10, 13, 301...
LAN attachment . . . . . . . . .
                                           *LEXLINK, *IP, *USRDFN
Switched line list . . . .
                                            Name
             + for more values
                                            00000000001-FFFFFFFFFE
LAN remote adapter address . . .
Adapter type . . . . . . . . . .
                                *INTERNAL
                                            *INTERNAL, *EXTERNAL
Adapter connection type . . . .
                                            *PARALLEL, *SERIAL
                                *PARALLEL
Emulated twinaxial device . . .
                                           3812, 5219, 5224, 5256
Advanced function printing . . .
                               *NO
                                            *NO, *YES
AFP attachment . . . . . . . . .
                                            *WSC, *APPC
                               *WSC
0-65535
                                            0, 1, 2, 3, 4, 5, 6
Switch setting . . . . . . . . .
Local location address . . . . .
                                            00-FE
                                                                More . . .
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

e) Press the <**PgDn**> key to access the next parameters screen. Fill in the values for the following fields: *Online at IPL* > \***NO**, *Font: Identifier* > 11.

```
Create Device Desc (Printer) (CRTDEVPRT)
Type choices, press Enter.
Auxiliary printer
                                             *YES, *NO
                                *NO
                                             *NO, *YES
Emulating ASCII device . . . . .
Physical attachment . . . . .
                                             *DIRECT, *PTT, *MODEM...
Online at IPL ......
                                             *YES, *NO
Attached controller
                                             Name
                  . . . . . .
Language type . . . . . . . .
                                *SYSVAL
                                             *SYSVAL, AGB, AGI, ALI...
Print quality
                                *STD
                                             *STD, *DRAFT, *NLQ
                                             3, 5, 11, 12, 13, 18, 19...
 Identifier . . . . . . . . > <u>11</u>
                                *NONE
                                            000.1-999.9, *NONE
 Point size . . . . . . . . . .
                                             *TYPE, *CONT, *CONT2, *CUT...
*AUTOCUT
Separator drawer . . . . . . . . .
                                            1-255, *FILE
                                *FILE
                                            Name, *NONE
Separator program . . . . . .
 Library . . . . . . . . . . . . .
                                             Name, *LIBL, *CURLIB
Number of drawers . . . . . .
                                             1, 2, 3
                                             *INQ, *INFO
                                *INFO
Printer error message . . . . .
                                                                  More...
F3=Exit
        F4=Prompt F5=Refresh
                                F12=Cancel F13=How to use this display
F24=More keys
```

f) Press the **Enter**> key and the following system message should appear:

Output queue {output queue name} in QUSRSYS already exists. Press the <PgDn> key to view the rest of the message which should read:

Description for device {output queue name} created.

MAIN	OS/4	00 Main Menu		35400
Select one of the	following:		Syste	m: AS400
<ol> <li>User tasks</li> <li>Office tasks</li> </ol>				
4. Files, lik	oraries, and folde	rs		
6. Communicat	cions			
8. Problem ha 9. Display a				
11. Client Acc	cess/400 tasks			
90. Sign off				
Selection or comma	and			
F3=Exit F4=Promp	ot F9=Retrieve	F12=Cancel	F23=Set initial	menu
Output queue MX550	00Q in QUSRSYS alr	eady exists		+

- g) If the above messages are not seen, then the remote output queue was not created in the QUSRSYS library. It will be necessary to stop the writer and delete the printer device description and output queue typing the commands shown below in the order given on the command line:
  - (1) **ENDWTR** ({output queue name})
  - (2) **DLTDEVD** ({output queue name})
  - (3) **DLTOUTQ** ({output queue name})

Begin again from step **4)** above.

### 7) Start the Remote Writer for the output queue.

a) If you successfully created a dummy printer device and the remote output queue was configured with *Writers to autostart* > 1, the remote writer should have restarted. To check the status of the writer, use the Work with Writers, All Writers command. At the command line, type "WRKWTR WTR(\*ALL)" and press the <Enter> key. This command will show only the active writers as shown below:

### Work with All Writers

Type options, press Enter.

2=Change 3=Hold 4=End 5=Work with 6=Release 7=Display messages 8=Work with output queue

Opt Writer Type Device Queue Library Status Form Type
MX5500Q RMT MX5500Q OUSRSYS STR \*ALL

Bottom

System:

**AS400** 

Parameters for options 2, 3, 4, 6 or command ===>

F3=Exit F4=Prompt F12=Cancel F22=Start printer writer F24=More keys

b) If the writer for the remote output queue you created is not shown, the writer did not restart. At the command line, type "STRRMTWTR (*output queue name*)" and press the <Enter> key. The following system message should appear if the writer was not active:

Reader or writer 042290/QSPLJOB/{output queue name} submitted to job queue...

If the writer was already active, the following system message would appear:

Writer /{output queue name} already started.

MAIN OS/400 Main Menu

Select one of the following:

- 1. User tasks
- 2. Office tasks
- 4. Files, libraries, and folders
- 6. Communications
- 8. Problem handling
- 9. Display a menu
- 11. Client Access/400 tasks
- 90. Sign off

Selection or command

===>\_

F3=Exit F4=Prompt F9=Retrieve F12=Cancel F23=Set initial menu

Reader or writer 042290/QSPLJOB/MX5500Q lsubmitted to job queue QSPL in li...

## 8) Test remote output queue printing using spooled system files.

Once the writer for the remote output queue has been started, you can then test basic printing to the *Sharp* MFP using spooled system files. Changing the attributes of a spooled file allows you to change certain parameters of the file including the printer to print to, the output queue, paper source, single sided or double sided prints, etc. As the remote output queue you created is using a **HP8000** printer description, the printed output may not be as expected but it will let you know whether the remote output queue you created is configured correctly. To test basic printing, follow the steps below:

a) At a command line, type **WRKSPLF** and press the **<Enter>** key. A list of spooled files for your user profile will be displayed as shown below:

1=	options, p Send 2=Cha Attributes	ange 3=Hol	d 4=Delete k with print:	5=Display ing status	6=R6	elease	7=Messa	ıges
			Device or			Total	Cur	
Opt	File	User	Queue	User Data	Sts	Pages	Page	Copy
_	SEPPAG	PATRICK	_		RDY			1
_	SEPPAG	PATRICK			RDY			1
_	SEPPAGNEW	_			RDY			1
	QPSECQ	PATRICK		~	RDY	3		1
2		PATRICK		~	RDY	6		1
_	QPJOBLOG	PATRICK	QEZJOBLOG	QPADEV0005	RDY	1		1
_	QPDSPJOB	PATRICK	QEZDEBUG		RDY	7		1
_	QPSRVDMP	PATRICK	QEZDEBUG		RDY	5		1
_	QPJOBLOG	PATRICK	QEZJOBLOG	QPADEV0005	RDY	2		1
							Mo	re

b) Place the cursor in the *Opt* (*Option*) field for the file you wish to print and type "2" (*Change*) and press the <**Enter**> key. Then press the <**F9**> key to display all of the parameters of the spooled file. Tab to the *Printer* field and enter the name of your output queue.

```
Change Spooled File Attributes (CHGSPLFA)
Type choices, press Enter.
Spooled file . . . . . . . . > QPJOBLOG
                                    Name, *SELECT
                                    Name, *
Job name . . . . . . . . . > QPADEV0005
 Name
                                    000000-999999
Spooled file number . . . . . > 1
                                    1-999999, *ONLY, *LAST
Select files for:
                          *CURRENT
 Name, *CURRENT, *ALL
                                    Name, *ALL, *OUTQ
Form type, *ALL, *STD
User data, *ALL
 Print device . . . . . . . . .
                          *ALL
                          *ALL
 User data . . . . . . . . . .
                          *ALL
Name, *SAME, *OUTQ
*SAME, *NEXT
                          *STD
                                    Form type, *SAME, *STD
1-255, *SAME
Number, *SAME, *STRPAGE...
Copies . .
*STRPAGE
                          *SAME
                                    Identifier, *SAME, *NONE
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

c) Press the **PgDn** and enter "\***DEV**" in the *Output queue* field. Tab to the *Save file* field and type in \***YES** so this file can be used for printing again.

```
Change Spooled File Attributes (CHGSPLFA)
Type choices, press Enter.
Diskette label . . . . . . . . .
                               *SAME
                                           Character value, *SAME
                        Additional Parameters
Output queue . . . . . . . > *DEV
                                          Name, *SAME, *DEV
  Library . . . . . . . . . . . . . . .
                                          Name, *LIBL, *CURLIB
File separators . . . . . . .
                                          0-9, *SAME
Page range to print:
  Starting page . . . . . . .
                                         Number, *SAME, *ENDPAGE
1-9, *SAME, *JOB
Output priority . . . . . . .
User data . . . . . . . . . . .
                              'QPADEV0005' User data, *SAME
Align page . . . . . . . . . . . .
                              *NO
*STD
                                          *SAME, *NO, *YES
                                          *SAME, *STD, *DEVD, *DRAFT...
Print quality . . . . . . . . .
         F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F3=Exit
F24=More keys
```

d) Press the **Enter**> key to submit the spool file to your remote output queue and you will be returned to the Work with All Spool Files screen. The job you submitted to your printer will display a status of "\***CHG**" (changed).

```
Work with All Spooled Files
Type options, press Enter.
  1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
  8=Attributes
                            9=Work with printing status
                                      Device or
     File User
SEPPAG PATRICK
SEPPAG DATE:
                                                                                Total
                                                                                             Cur
                                     Queue User Data Sts
PRT_01 RDY
Opt File
                                                                                Pages
                                                                                                     Copy
                                                                                             Page
                                                                                 44
                                                                                                         1
    SEPPAG PATRICK PRT_01 RDY 44

SEPPAGNEW PATRICK PRT_01 RDY 14

SEPPAGNEW PATRICK PRT_01 RDY 14

QPSECQ PATRICK PRT_01 PRTQAUT RDY 3

QPJOBLOG PATRICK MX5500 QPADEV0005 *CHG 6

QPJOBLOG PATRICK QEZJOBLOG QPADEV0005 RDY 1

QPDSPJOB PATRICK QEZDEBUG RDY 7

QPSRVDMP PATRICK QEZDEBUG RDY 5
                                                                                                         1
                                                                                                         1
                                                                                                         1
                                                                                                         1
                                     QEZJOBLOG QPADEV0005 RDY
      QPJOBLOG PATRICK
                                                                                                         1
                                                                                                 More...
Parameters for options 1, 2, 3 or command
             F10=View 4
                             F11=View 2
                                                F12=Cancel
                                                                   F22=Printers
F3=Exit
                                                                                       F24=More keys
```

e) To check the status of the job you just submitted, type "9" (Work with printing status) in the *Opt* field and press the **<Enter>** key.

Work with All Spooled Files Type options, press Enter. 1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages 8=Attributes 9=Work with printing status Device or Total Cur Opt File User Queue User Data Sts Pages Page Copy

7 QPJOBLOG PATRICK MX5500Q QPADEV0005 MSGW 6 1

SEPPAG PATRICK PRT\_01 RDY 44 1

SEPPAG PATRICK PRT\_01 RDY 14 1 SEPPAG PATRICK PRI\_01 RDY
SEPPAGNEW PATRICK PRT\_01 RDY
QPSECQ PATRICK PRT\_01 PRTQAUT RDY
QPJOBLOG PATRICK QEZJOBLOG QPADEV0005 RDY
QPDSPJOB PATRICK QEZDEBUG RDY
QPSRVDMP PATRICK QEZDEBUG RDY
QPJOBLOG PATRICK QEZJOBLOG QPADEV0005 RDY 14 3 1 7 1 1 1 5 1 2 1 More... Parameters for options 1, 2, 3 or command F10=View 4 F11=View 2 F12=Cancel F22=Printers F24=More keys F3=Exit

f) The following screen will appear if the remote output queue was created correctly. In this case, the file was printed and saved. If any problems were encounter, an error message would be displayed.

```
Work with Printing Status
                       OPADEV0005
                                     File . . . . . . . :
                                                           QPJOBLOG
Job . . . . . . :
                       PATRICK
043388
  User . . . . . :
                                      Number . . . . :
                                                              1
  Number . . . . :
                                     User data . . . . :
                                                             OPADEV0005
Type options, press Enter.
                 5=Display detailed description
  2=Change status
       Status Description
  This file was printed and saved.
                                                                   Bottom
Command
===>
                                            F12=Cancel
F3=Exit
         F4=Prompt
                   F5=Refresh
                               F9=Retrieve
```

g) To print the job again, type "2" (Change status) in the *Opt* field and press the **Enter**> key. Type "1" in the *Selection* field and press the **Enter**> key.

```
Work with Printing Status
Job . . . . . . :
                 QPADEV0005
                            File . . . . . . :
                                               QPJOBLOG
                 PATRICK
043388
 User . . . . . :
                            Number . . . . :
                                               1
                            User data . . . . :
                                               QPADEV0005
 Number . . . . :
Type options, press Enter.
 2=Change status 5=Display detailed description
  Change Status
Opt :
2
    Select one of the following:
        1. Print this file and save it again
        2. Print this file and delete it
    Selection
Com:
    F6=Display details F12=Cancel
F3= :
  :......
```

h) When the following screen is displayed, press the **F5**> key several times to refresh the status of the job.

i) The status should now show that the job was printed and saved again.

```
Work with Printing Status
                                        File . . . . . :
                         QPADEV0005
 Job
                                                                  QPJOBLOG
                          PATRICK Number . . . . : 043388 User data . . . . :
  User . . . . . :
                                                                  QPADEV0005
  Number . . . .
 Type options, press Enter.
   2=Change status 5=Display detailed description
        Status Description
      This file was printed and saved.
                                                                        Bot.tom
Command
===>
                     F5=Refresh F9=Retrieve
                                                F12=Cancel
F3=Exit
         F4=Prompt
```

Since this printer used the \*HP8000 description file, the job just printed should have been printed in simplex mode from Tray 2 even though the job attributes show that Tray 1 was selected for paper feed. This is because there are differences between the *Sharp* and *HP* PCL printer command structure. While this might work for users who require only basic printing, other users might require other features such as duplex printing from a different feed tray. To test whether the remote output queue needs to include a Work Station Customizing Object for the user, we will make further changes to the same spooled file and reprint the job.

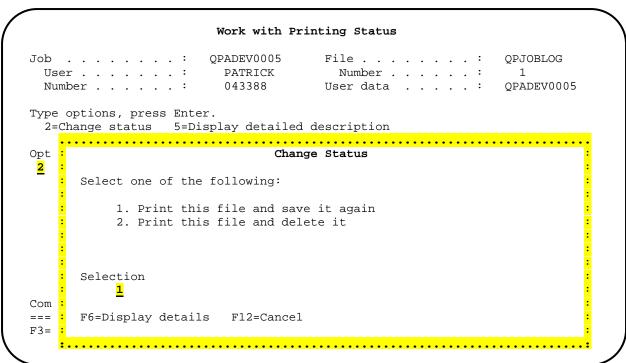
j) If you are still on the Work with Printing Status screen, press the **Enter**> key to return to the Work with All Spooled Files screen. Then, type "2" into the *Opt* field of the file just printed and press the **Enter**> key.

1=	e options, pr Send 2=Cha Attributes	ange 3=Hol	d 4=Delete k with prints	5=Display ing status	6=Re	lease	7=Messa	ges.
			Device or			Total	Cur	
Opt	File	User	Queue	User Data	Sts	Pages	Page	Сору
2	QPJOBLOG	PATRICK	MX5500Q	QPADEV0005	*CHG	6		1
_	SEPPAG	PATRICK	PRT_01		RDY	44		1
_	SEPPAG	PATRICK	PRT_01		RDY	14		1
_	SEPPAGNEW	PATRICK	PRT_01		RDY	14		1
_	QPSECQ	PATRICK	PRT_01	PRTQAUT	RDY	3		1
_	QPJOBLOG	PATRICK	QEZJOBLOG	QPADEV0005	RDY	1		1
_	QPDSPJOB	PATRICK	QEZDEBUG		RDY	7		1
_	QPSRVDMP	PATRICK	QEZDEBUG		RDY	5		1
_	QPJOBLOG	PATRICK	QEZJOBLOG	QPADEV0005	RDY	2		1
							Mo	re

k) Press the <F9> key to display all parameters. Press the <PgDn> key twice to access the following screen. Tab to the *Source drawer* field and change the default value from "1" to "2" to feed from the second cassette. Next, Tab to the *Print on both sides* field and change the default value from \*NO to \*YES. Before proceeding, remove paper from Tray 2 on the *Sharp* MFP and ensure that letter size paper is placed in Tray 1.

```
Change Spooled File Attributes (CHGSPLFA)
Type choices, press Enter.
                                              *SAME, *DEVD, *CONT, *CUT...
*DEVD
Source drawer . . . . . . . . >
                                              1-255, *SAME, *E1, *FORMDF
Print fidelity . . . . . . . .
                                 *CONTENT
                                             *SAME, *ABSOLUTE, *CONTENT
Print on both sides ....>
                                             *SAME, *NO, *YES, *TUMBLE...
Pages per side . . . . . . . .
                                             1-4, *SAME
Page definition . . . . . . .
                                 *SAME
                                             Name, *SAME, *NONE
 Library . . . . . . . . . . . .
                                              Name, *LIBL, *CURLIB
                                              Name, *SAME, *NONE, *DEVD...
Form definition . . . . . . .
                                 *NONE
 Library . . . . . . . . . . . . .
                                              Name, *LIBL, *CURLIB
                                              Coded font name, *SAME, *NONE
AFP Characters . . . . . . .
                                 *SAME
Front side overlay:
 Overlay . . . . . . . . . . . .
                                 *NONE
                                              Name, *NONE, *SAME
   Library . . . . . . . . . . . .
                                              Name, *LIBL, *CURLIB
 Offset down
                                              0.00-57.79, *SAME
 Offset across . . . . .
                                              0.00-57.79, *SAME
                                                                   More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

l) After ensuring that the *Sharp* MFP is setup as described, submit the changes to the spooled file by pressing the <**Enter**> key. Next, type "9" (Printing status) in the *Opt* field of the job, type "2" (Change status) in the *Opt* field and "1" in the *Selection* field to resubmit the job for printing. After the job is printed, press the <**F12**> (Cancel) key and then the <**Enter**> key to return to the Work with All Spooled Files screen.



If you have followed the instructions correctly, you will find that the job printed on both sides of the page from **Tray 1** rather than **Tray 2** as expected. This indicates that a Work Station Customizing Object should be used with the remote output queue. The following example shows using a pre compiled **WSCST** (Work Station Customizing Object) in place of the \***HP8000** description. (For complete instructions on creating and modifying **WSCSTs**, see the document "Creating and Compiling Work Station Customizing Objects for Sharp MFPs on the AS400")

# 9) Apply a Work Station Customizing Object to the Remote Output Queue.

a) Before a remote output queue can be modified, the remote writer must be stopped. At a command line, type "**ENDWTR**" and press the <**F4**> key. Type in the name of your remote output queue in the *Writer field*, tab to the *When to end writer* field, type in "\***IMMED**".

- b) Press the **<Enter>** key and the following system message should appear:

  Writer XXXXXX/QSPLJOB/{remote output queue name} in process of ending.
- c) At the command line, type "CHGOUTQ ({remote output queue name}", press the <F4> key and then the <F9> key to display all of the parameters for the remote output queue. Press the <PgDn> key once and make the following changes to the fields indicated:

Manufacturer type and model > \*WSCST

Workstation Customizing object > SHARPPJL

Library > QUSRSYS

```
Change Output Queue (CHGOUTQ)
 Writers to autostart . . . . . > 1
                                                                                                                                                                                                      1-10, *NONE
 Queue for writer messages . . . QSYSOPR
Library . . . . . . . . . . *LIBL
                                                                                                                                                                                                    Name
                                                                                                                                                                                                Name, *LIBL, *CURLIB
*SNA, *IP, *IPX, *USRDFN
Connection type . . . . . > *IP

Destination type . . . . . > *OTHER

Host print transform . . . . . *YEN

*
                                                                                                                                                                                                  *OS400, *OS400V2, *PSF2...
                                                                                                                                                                                                  *YES, *NO
                                                                                                                                                                                                    Name, *NONE
Name, *LIBL, *CURLIB
 User data transform . . . . . *NONE
 *NONE, *IMGA01, *IMGA02...
                                                                                                                                                                    A, B, C, D, E, F, G, H, I...
Character value, *NONE...
                                                                                                                                           A
 VM/MVS class . . . . . . . . . . .
 Forms Control Buffer . . . . .
                                                                                                                                              *NONE
                                                                                                                                                                                                                                                                                               More...
                                   F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
 F3=Exit
 F24=More keys
```

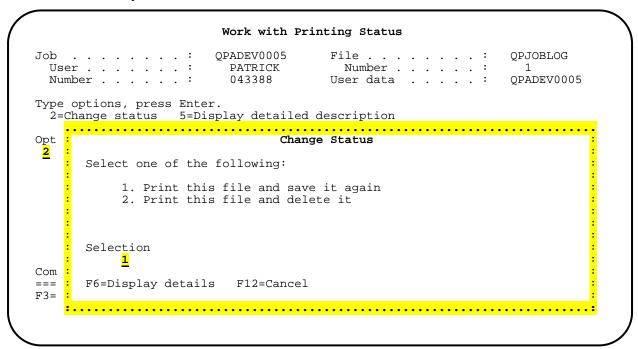
- d) Press the **Enter**> key when done.
- e) As long as the remote output queue was configured with *Autostart writers* > 1, the writer should start after the remote output queue is reconfigured. However, to ensure that it the writer is ready, on the command line type "STRRMTWTR ({output queue name})" and press the <Enter> key. The following system message should appear if the writer was not active:

Reader or writer XXXXXX/QSPLJOB/{output queue name} submitted to job queue...

If the writer was already active, the following system message would appear:

Writer /{output queue name} already started.

f) At the command line, type "WRKSPLF". When the list of spooled files is displayed, type "9" (Printing status) in the *Opt* field of the same file you printed previously and press the <Enter> key. Next, type "2" (Change status) in the *Opt* field and press the <Enter> key. Type "1" in the *Selection* field and press the <Enter> key to resubmit the job for printing. After the job is printed, press the <F12> (Cancel) key and then the <Enter> key.



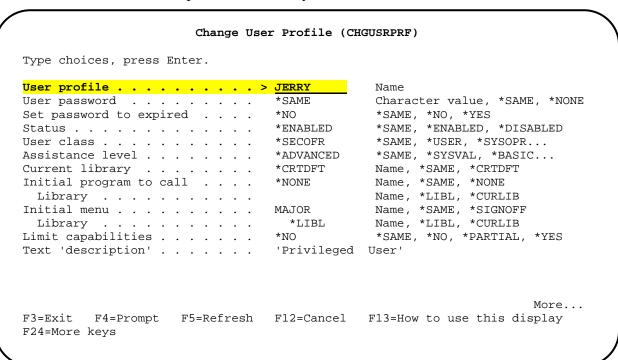
g) Check the job status of the *Sharp* MFP. If you left the MFP in the same condition as the previous print job, you will now find that the MFP will be displaying a message to "Add paper to Tray 2". After adding 8 ½ x 11 paper into **Tray 2**, the job will then print from **Tray 2**, indicating that the source drawer commands are now customized correctly for the *Sharp* MFP. Again, the printed documents should be printed on both sides.

### 10) Set the remote output queue for the Sharp MFP as the user's default printer.

Typically, most **AS400** print jobs are sent to a spool rather than directly to a printer. This allows further formatting of the file or allows the job to be redirected to a different output device. However, for some users and jobs, it is more efficient to directly print out the job on a known printer. In a large network environment with multiple printers, users are assigned default printers by their administrator. If they have sufficient rights, users can assign a printer to themselves. Both methods are shown below:

### **Administrative Method**

a) Log into the *AS400* with the administrator account. At the command line, type "CHGUSRPRF" and press the <F4> key.



b) Type in the user account name and press the **<F9>** key to display all of the parameters.

```
Change User Profile (CHGUSRPRF)
Type choices, press Enter.
User profile . . . . . . . . > JERRY
                              *SAME
User password . . . . . . . .
                                           Character value, *SAME, *NONE
                              *NO
Set password to expired . . . .
                                           *SAME, *NO, *YES
                               *ENABLED *SAME, *ENABLED, *DISABLED
User class . . . . . . . . . . .
                               *SECOFR
                                           *SAME, *USER, *SYSOPR...
                               Assistance level . . . . . . .
                                           *SAME, *SYSVAL, *BASIC...
Current library . . . . . . .
                               *NONE
Initial program to call . . . .
                                           Name, *SAME, *NONE
                              Name, *LIBL, *CURLIB
MAJOR Name, *SAME, *SIGNOFF
*LIBL Name, *LIBL, *CURLIB
*NO *SAME, *NO, *PARTIAL, *YES
                                           Name, *LIBL, *CURLIB
 Library . . . . . . . . . . . .
Library
Limit capabilities . . . . . .
Text 'description' . . . . . 'Privileged User'
                                                               More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

c) Press the <**PgDn**> key twice. For the *Print device*, type in the name of the remote output queue desired for the user and \***DEV** for the *Output queue* fields. Press the <**Enter**> key when done.

```
Change User Profile (CHGUSRPRF)
Type choices, press Enter.
                                                      *SAME, *USRPRF, *GRPPRF
*SAME, *NONE, *ALL...
                                       *USRPRF
Group authority . . . . . . .
                                       * AT.T.
Group authority type . . . . .
                                                      *PRIVATE, *PGP, *SAME
                                       *PRIVATE
Supplemental groups . . . . .
                                       *NONE
                                                      Name, *SAME, *NONE
+ for more values Accounting code . . . . . . .
                                       *BLANK
                                                      Name, *SAME, *NONE
                                       *SAME
Document password
                                      JERRY
                                                      Name, *SAME, *USRPRF
Name, *LIBL, *CURLIB
*SAME, *NOTIFY, *BREAK...
Message queue . . . . . . . . .
                                        QUSRSYS
 *NOTIFY
Delivery .
Severity code filter . . . . .
                                                       0-99, *SAME
                                                      Name, *SAME, *WRKSTN, *SYSVAL
Name, *SAME, *WRKSTN, *DEV
Name, *LIBL, *CURLIB
Name, *SAME, *SYSVAL...
Name, *LIBL, *CURLIB
Print device . . . . . . . > MX5500Q
Output queue . . . . . . . . > *DEV
 Library . . . . . . . . . . . .
Attention program . . . . . .
                                       *SYSVAL
  Library . . . . . . . . . . . .
                                                                               More . . .
F3=Exit
          F4=Prompt F5=Refresh F12=Cancel
                                                     F13=How to use this display
F24=More keys
```

d) The user has now been assigned the remote output queue as his default printer when the following system message appears.

User profile {username} changed.

```
MAJOR
                             Major Command Groups
                                                              System:
                                                                        AS400
Select one of the following:
      1. Select Command by Name
                                                                      SLTCMD
      2. Verb Commands
                                                                      VERB
      3. Subject Commands
                                                                      SUBJECT
      4. Object Management Commands
                                                                      CMDOBJMGT
      5. File Commands
                                                                      CMDFILE
      6. Save and Restore Commands
                                                                      CMDSAVRST
                                                                      CMDWRKMGT
      7. Work Management Commands
      8. Data Management Commands
                                                                      CMDDTAMGT
      9. Security Commands
                                                                      CMDSEC
    10. Print Commands
                                                                      CMDPRT
     11. Spooling Commands
                                                                      CMDSPL
     12. System Control Commands
                                                                      CMDSYSCTL
    13. Program Commands
                                                                      CMDPGM
                                                                         More...
Selection or command
 ===>
F3=Exit
          F4=Prompt
                       F9=Retrieve F12=Cancel
                                                  F13=Information Assistant
F16=AS/400 Main menu
 User profile JERRY changed.
```

### **User Method**

a) Log into the *AS400* with your user account. Type **CHGPRF** on the command line and press the <**F4**> key. Press the <**F9**> key to display all parameters.

```
Change Profile (CHGPRF)
Type choices, press Enter.
Assistance level . . . . . . *SYSVAL
                                               *SAME, *SYSVAL, *BASIC...
                                   Name, *SAME, *SISVAL, *BASIC
CRTDFT Name, *SAME, *CRTDFT
NONE Name, *SAME, *NONE
Name, *LIBL, *CURLIB
NAME, *SAME, *SIGNOFF
*LIBL Name, *LIBL, *CURLIB
Current library
                                 *CRTDFT
Initial program to call . . . . *NONE
  Initial menu . . . . . . . . MAIN
 Library . . . .
Text 'description' . . . . . .
                                'Privileged user'
                          Additional Parameters
Keyboard buffering . . . . . .
                                  *SYSVAL
                                              *SAME, *SYSVAL, *NO...
More...
                                F12=Cancel F13=How to use this display
F3=Exit F4=Prompt F5=Refresh
F24=More keys
```

b) Press the **Print** device type in the name of the remote output queue desired for the user and **DEV** for the *Output queue* fields. Press the **Enter**> key when done.

```
Change Profile (CHGPRF)
 Type choices, press Enter.
                                                                                                                                                            Name, *SAME, *USRPRF
Message queue . . . . . . . > PATRICK
      Library . . . . . . . . > QUSRSYS
                                                                                                                                                             Name, *LIBL, *CURLIB
                                                                                                                                                            *SAME, *NOTIFY, *BREAK...
                                                                                                                *NOTIFY
Severity code filter . . . . .
                                                                                                                                                             0-99, *SAME
Print device . . . . . . . > MX5500Q
                                                                                                                                                           Name, *SAME, *WRKSTN, *SYSVAL
                                                                                                                                                             Name, *SAME, *WRKSTN, *DEV
Output queue . . . . . . . . > *DEV
                                                                                                                                                             Name, *LIBL, *CURLIB
       Library . . . . . . . . . . . .
Attention program . . . . . .
                                                                                                                 *SYSVAL
                                                                                                                                                            Name, *SAME, *NONE...
                                                                                                                                                          Name, *LIBL, *CURLIB
Name, *SAME, *SYSVAL, *HEX...
      *SYSVAL
Sort sequence . . . . . . . . .
wame, *LIBL, *CURLIB

*SAME, *SYSVAL

country ID . . . . . . . *SYSVAL

Coded character set ID . . . *SYSVAL

Character identifier control . *SYSVAL

*SAME, *SYSVAL, *HEX...

*SAME, *SYSVAL *SAME, *SYS
                                                                                                                                                        *SAME, *SYSVAL, *DEVD...
                                                                                                                                                                                                                                   More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

e) You have assigned the remote output queue as your default printer when the following system message appears.

User profile {your name} changed.

	-	-	System:	AS400
Select one of	the following:			
1. Selec	t Command by Name			SLTCMD
2. Verb	Commands			VERB
3. Subje	ct Commands			SUBJECT
4. Objec	t Management Command	S		CMDOBJMGT
5. File	Commands			CMDFILE
6. Save	and Restore Commands			CMDSAVRST
7. Work	Management Commands			CMDWRKMGT
8. Data	Management Commands			CMDDTAMGT
	ity Commands			CMDSEC
10. Print	Commands			CMDPRT
_	ing Commands			CMDSPL
12. Syste	m Control Commands			CMDSYSCTL
13. Progr	am Commands			CMDPGM
				More
Selection or	command			
===>				
	Prompt F9=Retrieve	F12=Cancel	F13=Information As	sistant
F16=AS/400 Ma	in menu			

# 11)Test user's default printer.

To ensure that the remote output queue has been assigned to your user account, a print job must be sent directly to the printer rather than to a spool file. The following example uses the **AS400** source entry utility as it has a selection to print out a file.

a) At the command line, type in **STRSEU** (Start Source Entry Utility) and press the <**F4**> key. Fill in the following values for the parameters shown and press the <**Enter** > key when done:

Source file: QTXTSRC

Library: QGPL

Source member: \*SELECT

Source type: TXT

```
Start Source Entry Utility (STRSEU)
Type choices, press Enter.
Source file . . . . . . . . > QTXTSRC
                                          Name, *PRV
                                          Name, *LIBL, *CURLIB, *PRV
 Library . . . . . . . . . . . >
                                           Name, *PRV, *SELECT
Source type . . . . . . . . > TXT
                                           Name, *SAME, BAS, BASP...
*BLANK
                                           *BLANK, ' ', 2, 5, 6
Text 'description' . . . . . .
                              *BLANK
                 F5=Refresh F12=Cancel F13=How to use this display
F3=Exit
       F4=Prompt
F24=More keys
```

b) A list of text source code files for Workstation Customizing Objects will be shown similar to the following screen. Type "6" (Print) in the *Opt* field for any of the files and press the **Enter**> key.

```
Work with Members Using SEU
Source file . . . . .
                      QTXTSRC
                                           Library . . . .
                                                            QGPL
New member . . . . . .
 Type for new member . . . . . . . .
 Text . . . . . . . .
Type options, press Enter.
  2=Edit 4=Delete
                         5=Browse
                                      6=Print
Opt Member
                         Text
              Type
                      Master template source code for Sharp MFPs
6 ALLSHARP
_ ARM355MFP1
                         Source code modified from HP8000
_ AR275N
                         AR275 source code
   BOB
                         Custom folder for 'bob'
   CDRAGON1
                         Color Dragon
   CDRAGON2
                         Color Dragon with Finisher
   CUSTFLDR
                         CUSTOM FOLDER
_ DUP
                         Master template source code for Sharp MFPs
                                                              More...
F3=Exit
              F5=Refresh
                               F12=Cancel
                                                 F14=Display date
F15=Sort by date
                                F17=Subset
Member ALLSHARP has been printed.
```

c) If all information has been entered correctly, the selected file will print directly to your default printer using the remote output queue you created. The job will be formatted, printed and saved in the spool folder depending on the options selected in the print file for this job. A sample of the printout is shown below. Press the <F3> key to exit the source entry utility.

```
5722WDS V5R1M0 010525
                                          SEU SOURCE LISTING
SOURCE FILE . . . . . . QGPL/QTXTSRC
100 :WSCST DEVCLASS=TRANSFORM. /** SHARP GENERIC WSCST **/
  200 /** MODIFY AS NEEDED FOR SPECIFIC MODELS **/
  300
         :TRNSFRMTBL.
        : PRTDTASTRM
  400
  500
           DATASTREAM=HPPCL5.
  600
        :NOPRTBDR
 700 OPTION=TOP
800 ORIENT=PORTRAIT
900 DATA = 240.
1000 :NOPRTBDR
 1000
 1100
           OPTION=LEFT
ORIENT=.

1300 DATA =

1400 :NOPRTBDR

1500 OPERT |
          ORIENT=PORTRAIT
           DATA = 360.
1500 OPTION=RIGHT
1600 ORIENT=PORTRAIT
1700 DATA = 360.
1800 :NOPRTBDR
1900
 1900
         OPTION=BOTTOM
           ORIENT=PORTRAIT
DATA = 240.
 2000
 2100 DATA = 2200 :NOPRTBDR
         OPTION=TOP
 2300
           ORIENT=LANDSCAPE
DATA = 240.
 2400
 2500
 2600 :NOPRTBDR
         OPTION=LEFT
ORIENT=LANDSCAPE
 2700
 2800
 2900 DATA = 3000 :NOPRTBDR
           DATA = 288.
         OPTION=RIGHT
 3100
           ORIENT=LANDSCAPE
 3200
 3300 DATA = 3400 :NOPRTBDR
           DATA = 288.
         OPTION=BOTTOM
ORIENT=LANDSCAPE
 3500
 3700
           DATA = 240.
       DATA = :INITPRT DATA =
 3800
           DATA = '1845'X.
 3900
        :RESETPRT
 4000
 4100
           DATA = '1845'X.
        :BELL
 4200
 4300
          DATA = '07'X.
       :SPACE
 4400
 4500
            DATA = '20'X.
 4600
         :CARRTN
 4700
           DATA = '0D'X.
 4800
         :FORMFEED
 4900
          DATA = '0C'X.
 5000 :LINEFEED
       DATA = :VERRMOV
 5100
           DATA = 'OA'X.
 5200
 5300
           DIRECTION=IIP
```

If you have successfully created and tested the remote output queue to the *Sharp* MFP but do not plan on using it for production, take the following housekeeping steps:

a) Delete any spooled files that are using your remote output queue. At a command line, enter "WRKSPLF" and press the <Enter> key. Type "4" (Delete) in the *Opt* field of the spooled file using your remote output queue and press the <Enter> key. Press the <Enter> key again to confirm deletion of the file. Repeat for all spooled files using your printer.

1=		ange 3=Hold			6=R6	elease	7=Messa	ges
			Device or			Total	Cur	
Opt	File	User	Queue	User Data	Sts	Pages	Page	Сору
	QPSECQ	PATRICK	M355N	PRTQAUT	SAV	2		1
4	QPSUPRTF	PATRICK	MX5500Q		SAV	12		1
-	QPJOBLOG	PATRICK	MX5500	QPADEV0005	SAV	6		1
Para		options 1, 2,	. 3 or comman	nd			Е	ottom

b) Enter "ENDWTR WTR({remote output queue}) OPTION(\*IMMED)" at a command line and press the <Enter> key to end the printer writer.

```
Work with All Spooled Files

Type options, press Enter.

1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
8=Attributes 9=Work with printing status

Device or Total Cur

Opt File User Queue User Data Sts Pages Page Copy

QPSECQ PATRICK M355N PRTQAUT SAV 2 1

QPJOBLOG PATRICK MX5500 QPADEV0005 SAV 6 1

Bottom

Parameters for options 1, 2, 3 or command

===> ENDWTR WTR(MX5500Q) OPTION(*IMMED)

F3=Exit F10=View 4 F11=View 2 F12=Cancel F22=Printers F24=More keys
```

c) Enter "DLTDEVD DEVD({remote output queue}) at a command line and press the <Enter> key to delete both the dummy printer device description and the remote output queue. NOTE: if you receive a system error message "Device Description {printer device description} not deleted. Device in use.", the printer is still being used by a spooled file. Repeat step a) above.

### Work with All Spooled Files Type options, press Enter. 1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages 8=Attributes 9=Work with printing status Device or Total Cur File User QPSECQ PATRICK Queue User Data Sts Pages M355N PRTQAUT SAV 2 Opt File Page Copy 1 QPJOBLOG PATRICK MX5500 QPADEV0005 SAV 6 1 Bottom Parameters for options 1, 2, 3 or command ===> <u>DLTDEVD DEVD</u> (MX5500) F3=Exit F10=View 4 F11=View 2 F12=Cancel F22=Printers F24=More keys

d) At a command line, type "CHGPRF PRTDEV(\*WRKSTN) OUTQ(\*WRKSTN)" and press the <Enter> key to restore your user profile to its default values for the print device and outqueue.

```
Work with All Spooled Files
Type options, press Enter.
  1=Send 2=Change 3=Hold 4=Delete
                                         5=Display
                                                       6=Release
                                                                   7=Messages
 8=Attributes
                    9=Work with printing status
    QPSECQ PAGE
                            Device or
                                                           Total
                                                                     Cur
    File User Queue User Data Sts Pages
QPSECQ PATRICK M355N PRTQAUT SAV 2
QPJOBLOG PATRICK MX5500 QPADEV0005 SAV 6
Opt File
                                                                     Page Copy
                                        QPADEV0005 SAV 2
                                                                              1
                                                                              1
                                                                         Bottom
Parameters for options 1, 2, 3 or command
===> CHGPRF PRTDEV(*WRKSTN) OUTQ(*WRKSTN)
F3=Exit
         F10=View 4
                     F11=View 2
                                    F12=Cancel
                                                 F22=Printers
                                                                 F24=More keys
```

e) Enter "SIGNOFF" at a command line and press the <Enter> key to log off of the AS400.

# Work with All Spooled Files Type options, press Enter. 1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages 8=Attributes 9=Work with printing status Device or Total Cur Opt File User Queue User Data Sts Pages Page Copy QPSECQ PATRICK M355N PRTQAUT SAV 2 1 QPJOBLOG PATRICK MX5500 QPADEV0005 SAV 6 1 Parameters for options 1, 2, 3 or command Parameters for options 1, 2, 3 or command SENTING PRINTING PRI

f) Exit the terminal emulation program.